

**Risk Calculations - 3rd Trimester Start**  
**Construction Phase 1B**

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor | (Risk / |        |         |     |   |      |        |         |     |     |      |    |     |                 | Max      |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------------|----------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | Const1 | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) Mill) |          |
| 1        | 0.14257 | 0.0187 | 2.7E-03 | 361 | 1 | 0.96 | 1E-06  | 9.2E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.49E-08 0.0149 | 8.95E-01 |
| 2        | 0.13369 | 0.0187 | 2.5E-03 | 361 | 1 | 0.96 | 1E-06  | 8.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.40E-08 0.0140 |          |
| 3        | 0.12214 | 0.0187 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 7.9E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.28E-08 0.0128 |          |
| 4        | 0.11318 | 0.0187 | 2.1E-03 | 361 | 1 | 0.96 | 1E-06  | 7.3E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.18E-08 0.0118 |          |
| 5        | 0.10329 | 0.0187 | 1.9E-03 | 361 | 1 | 0.96 | 1E-06  | 6.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.08E-08 0.0108 |          |
| 6        | 0.0959  | 0.0187 | 1.8E-03 | 361 | 1 | 0.96 | 1E-06  | 6.2E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.00E-08 0.0100 |          |
| 7        | 0.18122 | 0.0187 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.90E-08 0.0190 |          |
| 8        | 0.16599 | 0.0187 | 3.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.74E-08 0.0174 |          |
| 9        | 0.14564 | 0.0187 | 2.7E-03 | 361 | 1 | 0.96 | 1E-06  | 9.4E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.52E-08 0.0152 |          |
| 10       | 0.13566 | 0.0187 | 2.5E-03 | 361 | 1 | 0.96 | 1E-06  | 8.8E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.42E-08 0.0142 |          |
| 11       | 0.11905 | 0.0187 | 2.2E-03 | 361 | 1 | 0.96 | 1E-06  | 7.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.25E-08 0.0125 |          |
| 12       | 0.11174 | 0.0187 | 2.1E-03 | 361 | 1 | 0.96 | 1E-06  | 7.2E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.17E-08 0.0117 |          |
| 13       | 0.10516 | 0.0187 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06  | 6.8E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.10E-08 0.0110 |          |
| 14       | 0.19891 | 0.0187 | 3.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.08E-08 0.0208 |          |
| 15       | 0.18538 | 0.0187 | 3.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.94E-08 0.0194 |          |
| 16       | 0.16647 | 0.0187 | 3.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.74E-08 0.0174 |          |
| 17       | 0.14661 | 0.0187 | 2.7E-03 | 361 | 1 | 0.96 | 1E-06  | 9.5E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.53E-08 0.0153 |          |
| 18       | 0.13322 | 0.0187 | 2.5E-03 | 361 | 1 | 0.96 | 1E-06  | 8.6E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.39E-08 0.0139 |          |
| 19       | 0.12149 | 0.0187 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 7.9E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.27E-08 0.0127 |          |
| 20       | 0.11331 | 0.0187 | 2.1E-03 | 361 | 1 | 0.96 | 1E-06  | 7.3E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.19E-08 0.0119 |          |
| 21       | 0.43801 | 0.0187 | 8.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.58E-08 0.0458 |          |
| 22       | 0.5016  | 0.0187 | 9.4E-03 | 361 | 1 | 0.96 | 1E-06  | 3.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.25E-08 0.0525 |          |
| 23       | 0.53845 | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.63E-08 0.0563 |          |
| 24       | 0.55059 | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.76E-08 0.0576 |          |
| 25       | 0.61064 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.39E-08 0.0639 |          |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 26       | 0.59517 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.23E-08  | 0.0623 |
| 27       | 0.54814 | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.73E-08  | 0.0573 |
| 28       | 0.48705 | 0.0187 | 9.1E-03 | 361 | 1 | 0.96 | 1E-06  | 3.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.10E-08  | 0.0510 |
| 29       | 0.41251 | 0.0187 | 7.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.32E-08  | 0.0432 |
| 30       | 0.27062 | 0.0187 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.83E-08  | 0.0283 |
| 31       | 0.24985 | 0.0187 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.61E-08  | 0.0261 |
| 32       | 0.20383 | 0.0187 | 3.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.13E-08  | 0.0213 |
| 33       | 0.19347 | 0.0187 | 3.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.02E-08  | 0.0202 |
| 34       | 0.16069 | 0.0187 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.68E-08  | 0.0168 |
| 35       | 0.14853 | 0.0187 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06  | 9.6E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.55E-08  | 0.0155 |
| 36       | 0.1328  | 0.0187 | 2.5E-03 | 361 | 1 | 0.96 | 1E-06  | 8.6E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.39E-08  | 0.0139 |
| 37       | 0.12553 | 0.0187 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 8.1E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.31E-08  | 0.0131 |
| 38       | 0.59038 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.18E-08  | 0.0618 |
| 39       | 0.53496 | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.60E-08  | 0.0560 |
| 40       | 0.57248 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.99E-08  | 0.0599 |
| 41       | 0.58509 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.12E-08  | 0.0612 |
| 42       | 0.61645 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.45E-08  | 0.0645 |
| 43       | 0.63781 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.67E-08  | 0.0667 |
| 44       | 0.60659 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.35E-08  | 0.0635 |
| 45       | 0.53649 | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.61E-08  | 0.0561 |
| 46       | 0.4596  | 0.0187 | 8.6E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.81E-08  | 0.0481 |
| 47       | 0.41777 | 0.0187 | 7.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.37E-08  | 0.0437 |
| 48       | 0.3294  | 0.0187 | 6.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.45E-08  | 0.0345 |
| 49       | 0.28523 | 0.0187 | 5.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.98E-08  | 0.0298 |
| 50       | 0.25804 | 0.0187 | 4.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.70E-08  | 0.0270 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 51       | 0.23121 | 0.0187 | 4.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.42E-08  | 0.0242 |
| 52       | 0.18436 | 0.0187 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.93E-08  | 0.0193 |
| 53       | 0.16289 | 0.0187 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.70E-08  | 0.0170 |
| 54       | 0.14939 | 0.0187 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06  | 9.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.56E-08  | 0.0156 |
| 55       | 0.15235 | 0.0187 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06  | 9.9E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.59E-08  | 0.0159 |
| 56       | 0.55797 | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.84E-08  | 0.0584 |
| 57       | 0.56885 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.95E-08  | 0.0595 |
| 58       | 0.58821 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.15E-08  | 0.0615 |
| 59       | 0.68345 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.15E-08  | 0.0715 |
| 60       | 0.69254 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.25E-08  | 0.0725 |
| 61       | 0.73699 | 0.0187 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.71E-08  | 0.0771 |
| 62       | 0.72167 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.55E-08  | 0.0755 |
| 63       | 0.62652 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.56E-08  | 0.0656 |
| 64       | 0.56525 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.91E-08  | 0.0591 |
| 65       | 0.46307 | 0.0187 | 8.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.84E-08  | 0.0484 |
| 66       | 0.46763 | 0.0187 | 8.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.89E-08  | 0.0489 |
| 67       | 0.32884 | 0.0187 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.44E-08  | 0.0344 |
| 68       | 0.29277 | 0.0187 | 5.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.06E-08  | 0.0306 |
| 69       | 0.27065 | 0.0187 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.83E-08  | 0.0283 |
| 70       | 0.26125 | 0.0187 | 4.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.73E-08  | 0.0273 |
| 71       | 0.20425 | 0.0187 | 3.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.14E-08  | 0.0214 |
| 72       | 0.1906  | 0.0187 | 3.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.99E-08  | 0.0199 |
| 73       | 0.22012 | 0.0187 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.30E-08  | 0.0230 |
| 74       | 0.62675 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.56E-08  | 0.0656 |
| 75       | 0.65056 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.81E-08  | 0.0681 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 76       | 0.65456 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.85E-08  | 0.0685 |
| 77       | 0.73638 | 0.0187 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.70E-08  | 0.0770 |
| 78       | 0.8471  | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.86E-08  | 0.0886 |
| 79       | 0.88849 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.30E-08  | 0.0930 |
| 80       | 0.90496 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.47E-08  | 0.0947 |
| 81       | 0.82607 | 0.0187 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.64E-08  | 0.0864 |
| 82       | 0.70876 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.42E-08  | 0.0742 |
| 83       | 0.59652 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.24E-08  | 0.0624 |
| 84       | 0.67997 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.11E-08  | 0.0711 |
| 85       | 0.34615 | 0.0187 | 6.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.62E-08  | 0.0362 |
| 86       | 0.31525 | 0.0187 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.30E-08  | 0.0330 |
| 87       | 0.30195 | 0.0187 | 5.6E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.16E-08  | 0.0316 |
| 88       | 0.28593 | 0.0187 | 5.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.99E-08  | 0.0299 |
| 89       | 0.2696  | 0.0187 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.82E-08  | 0.0282 |
| 90       | 0.25777 | 0.0187 | 4.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.70E-08  | 0.0270 |
| 91       | 0.7657  | 0.0187 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 5.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.01E-08  | 0.0801 |
| 92       | 0.78216 | 0.0187 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.18E-08  | 0.0818 |
| 93       | 0.89506 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.36E-08  | 0.0936 |
| 94       | 0.94714 | 0.0187 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06  | 6.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.91E-08  | 0.0991 |
| 95       | 1.04003 | 0.0187 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.09E-07  | 0.1088 |
| 96       | 1.12421 | 0.0187 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.18E-07  | 0.1176 |
| 97       | 1.04229 | 0.0187 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.09E-07  | 0.1091 |
| 98       | 0.90305 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.45E-08  | 0.0945 |
| 99       | 0.88258 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.23E-08  | 0.0923 |
| 100      | 0.44117 | 0.0187 | 8.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.62E-08  | 0.0462 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 101      | 0.36795 | 0.0187 | 6.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.85E-08  | 0.0385 |
| 102      | 0.34454 | 0.0187 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.60E-08  | 0.0360 |
| 103      | 0.32801 | 0.0187 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.43E-08  | 0.0343 |
| 104      | 0.30575 | 0.0187 | 5.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.20E-08  | 0.0320 |
| 105      | 0.27575 | 0.0187 | 5.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.89E-08  | 0.0289 |
| 106      | 0.80913 | 0.0187 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.47E-08  | 0.0847 |
| 107      | 0.83667 | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.75E-08  | 0.0875 |
| 108      | 0.94434 | 0.0187 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06  | 6.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.88E-08  | 0.0988 |
| 109      | 0.98691 | 0.0187 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06  | 6.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.03E-07  | 0.1033 |
| 110      | 1.13153 | 0.0187 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.18E-07  | 0.1184 |
| 111      | 1.3058  | 0.0187 | 2.4E-02 | 361 | 1 | 0.96 | 1E-06  | 8.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.37E-07  | 0.1366 |
| 112      | 1.41351 | 0.0187 | 2.6E-02 | 361 | 1 | 0.96 | 1E-06  | 9.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.48E-07  | 0.1479 |
| 113      | 1.42196 | 0.0187 | 2.7E-02 | 361 | 1 | 0.96 | 1E-06  | 9.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.49E-07  | 0.1488 |
| 114      | 1.36036 | 0.0187 | 2.5E-02 | 361 | 1 | 0.96 | 1E-06  | 8.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.42E-07  | 0.1423 |
| 115      | 0.40925 | 0.0187 | 7.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.28E-08  | 0.0428 |
| 116      | 0.39445 | 0.0187 | 7.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.13E-08  | 0.0413 |
| 117      | 0.38313 | 0.0187 | 7.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.01E-08  | 0.0401 |
| 118      | 0.33537 | 0.0187 | 6.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.51E-08  | 0.0351 |
| 119      | 0.28473 | 0.0187 | 5.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.98E-08  | 0.0298 |
| 120      | 0.92954 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 6.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.73E-08  | 0.0973 |
| 121      | 0.86551 | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.06E-08  | 0.0906 |
| 122      | 0.98739 | 0.0187 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06  | 6.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.03E-07  | 0.1033 |
| 123      | 1.16933 | 0.0187 | 2.2E-02 | 361 | 1 | 0.96 | 1E-06  | 7.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.22E-07  | 0.1223 |
| 124      | 1.386   | 0.0187 | 2.6E-02 | 361 | 1 | 0.96 | 1E-06  | 9.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.45E-07  | 0.1450 |
| 125      | 1.58316 | 0.0187 | 3.0E-02 | 361 | 1 | 0.96 | 1E-06  | 1.0E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.66E-07  | 0.1656 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 126      | 1.96907 | 0.0187 | 3.7E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.06E-07  | 0.2060 |
| 127      | 2.35262 | 0.0187 | 4.4E-02 | 361 | 1 | 0.96 | 1E-06  | 1.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.46E-07  | 0.2461 |
| 128      | 0.65638 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.87E-08  | 0.0687 |
| 129      | 0.55176 | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.77E-08  | 0.0577 |
| 130      | 0.46604 | 0.0187 | 8.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.88E-08  | 0.0488 |
| 131      | 0.38018 | 0.0187 | 7.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.98E-08  | 0.0398 |
| 132      | 0.26126 | 0.0187 | 4.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.73E-08  | 0.0273 |
| 133      | 0.85154 | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.91E-08  | 0.0891 |
| 134      | 1.07595 | 0.0187 | 2.0E-02 | 361 | 1 | 0.96 | 1E-06  | 7.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.13E-07  | 0.1126 |
| 135      | 1.3543  | 0.0187 | 2.5E-02 | 361 | 1 | 0.96 | 1E-06  | 8.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.42E-07  | 0.1417 |
| 136      | 1.57548 | 0.0187 | 2.9E-02 | 361 | 1 | 0.96 | 1E-06  | 1.0E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.65E-07  | 0.1648 |
| 137      | 1.93144 | 0.0187 | 3.6E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.02E-07  | 0.2021 |
| 138      | 2.71283 | 0.0187 | 5.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.8E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.84E-07  | 0.2838 |
| 139      | 5.71455 | 0.0187 | 1.1E-01 | 361 | 1 | 0.96 | 1E-06  | 3.7E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 5.98E-07  | 0.5979 |
| 140      | 0.67028 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.01E-08  | 0.0701 |
| 141      | 0.52905 | 0.0187 | 9.9E-03 | 361 | 1 | 0.96 | 1E-06  | 3.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.54E-08  | 0.0554 |
| 142      | 0.43694 | 0.0187 | 8.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.57E-08  | 0.0457 |
| 143      | 0.29239 | 0.0187 | 5.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.06E-08  | 0.0306 |
| 144      | 1.25505 | 0.0187 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 8.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.31E-07  | 0.1313 |
| 145      | 1.65273 | 0.0187 | 3.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.73E-07  | 0.1729 |
| 146      | 1.98418 | 0.0187 | 3.7E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.08E-07  | 0.2076 |
| 147      | 2.64664 | 0.0187 | 4.9E-02 | 361 | 1 | 0.96 | 1E-06  | 1.7E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.77E-07  | 0.2769 |
| 148      | 3.89148 | 0.0187 | 7.3E-02 | 361 | 1 | 0.96 | 1E-06  | 2.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 4.07E-07  | 0.4072 |
| 149      | 3.51153 | 0.0187 | 6.6E-02 | 361 | 1 | 0.96 | 1E-06  | 2.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.67E-07  | 0.3674 |
| 150      | 2.03503 | 0.0187 | 3.8E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.13E-07  | 0.2129 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 151      | 1.50481 | 0.0187 | 2.8E-02 | 361 | 1 | 0.96 | 1E-06  | 9.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.57E-07  | 0.1574 |
| 152      | 1.22329 | 0.0187 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 7.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.28E-07  | 0.1280 |
| 153      | 0.70991 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.43E-08  | 0.0743 |
| 154      | 0.58106 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.08E-08  | 0.0608 |
| 155      | 0.47279 | 0.0187 | 8.8E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.95E-08  | 0.0495 |
| 156      | 0.40353 | 0.0187 | 7.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.22E-08  | 0.0422 |
| 157      | 3.34251 | 0.0187 | 6.3E-02 | 361 | 1 | 0.96 | 1E-06  | 2.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.50E-07  | 0.3497 |
| 158      | 3.76257 | 0.0187 | 7.0E-02 | 361 | 1 | 0.96 | 1E-06  | 2.4E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.94E-07  | 0.3937 |
| 159      | 4.54045 | 0.0187 | 8.5E-02 | 361 | 1 | 0.96 | 1E-06  | 2.9E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 4.75E-07  | 0.4751 |
| 160      | 2.52972 | 0.0187 | 4.7E-02 | 361 | 1 | 0.96 | 1E-06  | 1.6E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.65E-07  | 0.2647 |
| 161      | 1.65138 | 0.0187 | 3.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.73E-07  | 0.1728 |
| 162      | 1.21511 | 0.0187 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 7.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.27E-07  | 0.1271 |
| 163      | 0.58478 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.12E-08  | 0.0612 |
| 164      | 0.51231 | 0.0187 | 9.6E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.36E-08  | 0.0536 |
| 165      | 0.43002 | 0.0187 | 8.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.50E-08  | 0.0450 |
| 166      | 5.34751 | 0.0187 | 1.0E-01 | 361 | 1 | 0.96 | 1E-06  | 3.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 5.59E-07  | 0.5595 |
| 167      | 2.93781 | 0.0187 | 5.5E-02 | 361 | 1 | 0.96 | 1E-06  | 1.9E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.07E-07  | 0.3074 |
| 168      | 2.01593 | 0.0187 | 3.8E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.11E-07  | 0.2109 |
| 169      | 1.42521 | 0.0187 | 2.7E-02 | 361 | 1 | 0.96 | 1E-06  | 9.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.49E-07  | 0.1491 |
| 170      | 1.08462 | 0.0187 | 2.0E-02 | 361 | 1 | 0.96 | 1E-06  | 7.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.13E-07  | 0.1135 |
| 171      | 0.68161 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.13E-08  | 0.0713 |
| 172      | 0.51579 | 0.0187 | 9.6E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.40E-08  | 0.0540 |
| 173      | 0.42776 | 0.0187 | 8.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.48E-08  | 0.0448 |
| 174      | 8.55485 | 0.0187 | 1.6E-01 | 361 | 1 | 0.96 | 1E-06  | 5.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 8.95E-07  | 0.8951 |
| 175      | 5.40053 | 0.0187 | 1.0E-01 | 361 | 1 | 0.96 | 1E-06  | 3.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 5.65E-07  | 0.5650 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 176      | 3.33391 | 0.0187 | 6.2E-02 | 361 | 1 | 0.96 | 1E-06  | 2.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.49E-07  | 0.3488 |
| 177      | 2.2635  | 0.0187 | 4.2E-02 | 361 | 1 | 0.96 | 1E-06  | 1.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.37E-07  | 0.2368 |
| 178      | 1.59628 | 0.0187 | 3.0E-02 | 361 | 1 | 0.96 | 1E-06  | 1.0E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.67E-07  | 0.1670 |
| 179      | 1.15673 | 0.0187 | 2.2E-02 | 361 | 1 | 0.96 | 1E-06  | 7.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.21E-07  | 0.1210 |
| 180      | 0.89425 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.36E-08  | 0.0936 |
| 181      | 0.62061 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.49E-08  | 0.0649 |
| 182      | 0.50601 | 0.0187 | 9.5E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.29E-08  | 0.0529 |
| 183      | 7.15077 | 0.0187 | 1.3E-01 | 361 | 1 | 0.96 | 1E-06  | 4.6E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 7.48E-07  | 0.7482 |
| 184      | 5.06388 | 0.0187 | 9.5E-02 | 361 | 1 | 0.96 | 1E-06  | 3.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 5.30E-07  | 0.5298 |
| 185      | 3.52857 | 0.0187 | 6.6E-02 | 361 | 1 | 0.96 | 1E-06  | 2.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.69E-07  | 0.3692 |
| 186      | 2.41297 | 0.0187 | 4.5E-02 | 361 | 1 | 0.96 | 1E-06  | 1.6E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.52E-07  | 0.2525 |
| 187      | 1.76478 | 0.0187 | 3.3E-02 | 361 | 1 | 0.96 | 1E-06  | 1.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.85E-07  | 0.1846 |
| 188      | 1.30975 | 0.0187 | 2.4E-02 | 361 | 1 | 0.96 | 1E-06  | 8.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.37E-07  | 0.1370 |
| 189      | 1.01047 | 0.0187 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.06E-07  | 0.1057 |
| 190      | 0.80384 | 0.0187 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.41E-08  | 0.0841 |
| 191      | 8.32687 | 0.0187 | 1.6E-01 | 361 | 1 | 0.96 | 1E-06  | 5.4E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 8.71E-07  | 0.8712 |
| 192      | 6.02533 | 0.0187 | 1.1E-01 | 361 | 1 | 0.96 | 1E-06  | 3.9E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 6.30E-07  | 0.6304 |
| 193      | 4.45973 | 0.0187 | 8.3E-02 | 361 | 1 | 0.96 | 1E-06  | 2.9E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 4.67E-07  | 0.4666 |
| 194      | 3.33262 | 0.0187 | 6.2E-02 | 361 | 1 | 0.96 | 1E-06  | 2.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.49E-07  | 0.3487 |
| 195      | 2.46305 | 0.0187 | 4.6E-02 | 361 | 1 | 0.96 | 1E-06  | 1.6E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.58E-07  | 0.2577 |
| 196      | 1.84191 | 0.0187 | 3.4E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.93E-07  | 0.1927 |
| 197      | 1.42077 | 0.0187 | 2.7E-02 | 361 | 1 | 0.96 | 1E-06  | 9.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.49E-07  | 0.1487 |
| 198      | 1.08702 | 0.0187 | 2.0E-02 | 361 | 1 | 0.96 | 1E-06  | 7.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.14E-07  | 0.1137 |
| 199      | 0.87584 | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.16E-08  | 0.0916 |
| 200      | 0.72192 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.55E-08  | 0.0755 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 201      | 3.24959 | 0.0187 | 6.1E-02 | 361 | 1 | 0.96 | 1E-06  | 2.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.40E-07  | 0.3400 |
| 202      | 4.95098 | 0.0187 | 9.3E-02 | 361 | 1 | 0.96 | 1E-06  | 3.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 5.18E-07  | 0.5180 |
| 203      | 5.8668  | 0.0187 | 1.1E-01 | 361 | 1 | 0.96 | 1E-06  | 3.8E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 6.14E-07  | 0.6138 |
| 204      | 6.38123 | 0.0187 | 1.2E-01 | 361 | 1 | 0.96 | 1E-06  | 4.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 6.68E-07  | 0.6676 |
| 205      | 5.89622 | 0.0187 | 1.1E-01 | 361 | 1 | 0.96 | 1E-06  | 3.8E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 6.17E-07  | 0.6169 |
| 206      | 4.88452 | 0.0187 | 9.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 5.11E-07  | 0.5110 |
| 207      | 3.92915 | 0.0187 | 7.3E-02 | 361 | 1 | 0.96 | 1E-06  | 2.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 4.11E-07  | 0.4111 |
| 208      | 3.09747 | 0.0187 | 5.8E-02 | 361 | 1 | 0.96 | 1E-06  | 2.0E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.24E-07  | 0.3241 |
| 209      | 2.38952 | 0.0187 | 4.5E-02 | 361 | 1 | 0.96 | 1E-06  | 1.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.50E-07  | 0.2500 |
| 210      | 1.86639 | 0.0187 | 3.5E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.95E-07  | 0.1953 |
| 211      | 1.46676 | 0.0187 | 2.7E-02 | 361 | 1 | 0.96 | 1E-06  | 9.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.53E-07  | 0.1535 |
| 212      | 1.14687 | 0.0187 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.20E-07  | 0.1200 |
| 213      | 0.93847 | 0.0187 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06  | 6.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.82E-08  | 0.0982 |
| 214      | 0.74904 | 0.0187 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.84E-08  | 0.0784 |
| 215      | 0.62804 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.57E-08  | 0.0657 |
| 216      | 1.51358 | 0.0187 | 2.8E-02 | 361 | 1 | 0.96 | 1E-06  | 9.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.58E-07  | 0.1584 |
| 217      | 1.75108 | 0.0187 | 3.3E-02 | 361 | 1 | 0.96 | 1E-06  | 1.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.83E-07  | 0.1832 |
| 218      | 2.40965 | 0.0187 | 4.5E-02 | 361 | 1 | 0.96 | 1E-06  | 1.6E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.52E-07  | 0.2521 |
| 219      | 3.09162 | 0.0187 | 5.8E-02 | 361 | 1 | 0.96 | 1E-06  | 2.0E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.23E-07  | 0.3235 |
| 220      | 3.64843 | 0.0187 | 6.8E-02 | 361 | 1 | 0.96 | 1E-06  | 2.4E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.82E-07  | 0.3817 |
| 221      | 3.87704 | 0.0187 | 7.2E-02 | 361 | 1 | 0.96 | 1E-06  | 2.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 4.06E-07  | 0.4056 |
| 222      | 3.7245  | 0.0187 | 7.0E-02 | 361 | 1 | 0.96 | 1E-06  | 2.4E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.90E-07  | 0.3897 |
| 223      | 3.25928 | 0.0187 | 6.1E-02 | 361 | 1 | 0.96 | 1E-06  | 2.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.41E-07  | 0.3410 |
| 224      | 2.72345 | 0.0187 | 5.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.8E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.85E-07  | 0.2849 |
| 225      | 2.20632 | 0.0187 | 4.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.4E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.31E-07  | 0.2308 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 226      | 1.77318 | 0.0187 | 3.3E-02 | 361 | 1 | 0.96 | 1E-06  | 1.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.86E-07  | 0.1855 |
| 227      | 1.44239 | 0.0187 | 2.7E-02 | 361 | 1 | 0.96 | 1E-06  | 9.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.51E-07  | 0.1509 |
| 228      | 1.16513 | 0.0187 | 2.2E-02 | 361 | 1 | 0.96 | 1E-06  | 7.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.22E-07  | 0.1219 |
| 229      | 0.94394 | 0.0187 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06  | 6.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.88E-08  | 0.0988 |
| 230      | 0.77791 | 0.0187 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.14E-08  | 0.0814 |
| 231      | 0.62195 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.51E-08  | 0.0651 |
| 232      | 1.05953 | 0.0187 | 2.0E-02 | 361 | 1 | 0.96 | 1E-06  | 6.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.11E-07  | 0.1109 |
| 233      | 1.11661 | 0.0187 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.17E-07  | 0.1168 |
| 234      | 1.47792 | 0.0187 | 2.8E-02 | 361 | 1 | 0.96 | 1E-06  | 9.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.55E-07  | 0.1546 |
| 235      | 1.89467 | 0.0187 | 3.5E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.98E-07  | 0.1982 |
| 236      | 2.31891 | 0.0187 | 4.3E-02 | 361 | 1 | 0.96 | 1E-06  | 1.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.43E-07  | 0.2426 |
| 237      | 2.71307 | 0.0187 | 5.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.8E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.84E-07  | 0.2839 |
| 238      | 2.76677 | 0.0187 | 5.2E-02 | 361 | 1 | 0.96 | 1E-06  | 1.8E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.89E-07  | 0.2895 |
| 239      | 2.56931 | 0.0187 | 4.8E-02 | 361 | 1 | 0.96 | 1E-06  | 1.7E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.69E-07  | 0.2688 |
| 240      | 2.2825  | 0.0187 | 4.3E-02 | 361 | 1 | 0.96 | 1E-06  | 1.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.39E-07  | 0.2388 |
| 241      | 1.93631 | 0.0187 | 3.6E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.03E-07  | 0.2026 |
| 242      | 1.63045 | 0.0187 | 3.0E-02 | 361 | 1 | 0.96 | 1E-06  | 1.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.71E-07  | 0.1706 |
| 243      | 1.35634 | 0.0187 | 2.5E-02 | 361 | 1 | 0.96 | 1E-06  | 8.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.42E-07  | 0.1419 |
| 244      | 1.13547 | 0.0187 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.19E-07  | 0.1188 |
| 245      | 0.91896 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.61E-08  | 0.0961 |
| 246      | 0.77965 | 0.0187 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.16E-08  | 0.0816 |
| 247      | 0.63206 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.61E-08  | 0.0661 |
| 248      | 0.86538 | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.05E-08  | 0.0905 |
| 249      | 0.85659 | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.96E-08  | 0.0896 |
| 250      | 1.00342 | 0.0187 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.05E-07  | 0.1050 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 251      | 1.28849 | 0.0187 | 2.4E-02 | 361 | 1 | 0.96 | 1E-06  | 8.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.35E-07  | 0.1348 |
| 252      | 1.63636 | 0.0187 | 3.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.71E-07  | 0.1712 |
| 253      | 1.90198 | 0.0187 | 3.6E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.99E-07  | 0.1990 |
| 254      | 2.02634 | 0.0187 | 3.8E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.12E-07  | 0.2120 |
| 255      | 2.01179 | 0.0187 | 3.8E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.10E-07  | 0.2105 |
| 256      | 1.88256 | 0.0187 | 3.5E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.97E-07  | 0.1970 |
| 257      | 1.68205 | 0.0187 | 3.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.76E-07  | 0.1760 |
| 258      | 1.46116 | 0.0187 | 2.7E-02 | 361 | 1 | 0.96 | 1E-06  | 9.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.53E-07  | 0.1529 |
| 259      | 1.25462 | 0.0187 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 8.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.31E-07  | 0.1313 |
| 260      | 1.07567 | 0.0187 | 2.0E-02 | 361 | 1 | 0.96 | 1E-06  | 7.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.13E-07  | 0.1125 |
| 261      | 0.89369 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.35E-08  | 0.0935 |
| 262      | 0.7632  | 0.0187 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.99E-08  | 0.0799 |
| 263      | 0.63167 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.61E-08  | 0.0661 |
| 264      | 0.58009 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.07E-08  | 0.0607 |
| 265      | 0.56073 | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.87E-08  | 0.0587 |
| 266      | 0.57902 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.06E-08  | 0.0606 |
| 267      | 0.66488 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.96E-08  | 0.0696 |
| 268      | 0.66061 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.91E-08  | 0.0691 |
| 269      | 0.74394 | 0.0187 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.78E-08  | 0.0778 |
| 270      | 0.92034 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 6.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.63E-08  | 0.0963 |
| 271      | 1.1693  | 0.0187 | 2.2E-02 | 361 | 1 | 0.96 | 1E-06  | 7.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.22E-07  | 0.1223 |
| 272      | 1.38588 | 0.0187 | 2.6E-02 | 361 | 1 | 0.96 | 1E-06  | 9.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.45E-07  | 0.1450 |
| 273      | 1.53028 | 0.0187 | 2.9E-02 | 361 | 1 | 0.96 | 1E-06  | 9.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.60E-07  | 0.1601 |
| 274      | 1.58042 | 0.0187 | 3.0E-02 | 361 | 1 | 0.96 | 1E-06  | 1.0E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.65E-07  | 0.1654 |
| 275      | 1.5324  | 0.0187 | 2.9E-02 | 361 | 1 | 0.96 | 1E-06  | 9.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.60E-07  | 0.1603 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 276      | 1.43091 | 0.0187 | 2.7E-02 | 361 | 1 | 0.96 | 1E-06  | 9.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.50E-07  | 0.1497 |
| 277      | 1.28867 | 0.0187 | 2.4E-02 | 361 | 1 | 0.96 | 1E-06  | 8.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.35E-07  | 0.1348 |
| 278      | 1.14049 | 0.0187 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.19E-07  | 0.1193 |
| 279      | 1.0007  | 0.0187 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.05E-07  | 0.1047 |
| 280      | 0.85395 | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.93E-08  | 0.0893 |
| 281      | 0.7216  | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.55E-08  | 0.0755 |
| 282      | 0.60823 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.36E-08  | 0.0636 |
| 283      | 0.46088 | 0.0187 | 8.6E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.82E-08  | 0.0482 |
| 284      | 0.44204 | 0.0187 | 8.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.62E-08  | 0.0462 |
| 285      | 0.43325 | 0.0187 | 8.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.53E-08  | 0.0453 |
| 286      | 0.45841 | 0.0187 | 8.6E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.80E-08  | 0.0480 |
| 287      | 0.52307 | 0.0187 | 9.8E-03 | 361 | 1 | 0.96 | 1E-06  | 3.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.47E-08  | 0.0547 |
| 288      | 0.56987 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.96E-08  | 0.0596 |
| 289      | 0.59322 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.21E-08  | 0.0621 |
| 290      | 0.71744 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.51E-08  | 0.0751 |
| 291      | 0.87548 | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.16E-08  | 0.0916 |
| 292      | 1.04219 | 0.0187 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.09E-07  | 0.1090 |
| 293      | 1.17605 | 0.0187 | 2.2E-02 | 361 | 1 | 0.96 | 1E-06  | 7.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.23E-07  | 0.1230 |
| 294      | 1.25313 | 0.0187 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 8.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.31E-07  | 0.1311 |
| 295      | 1.25792 | 0.0187 | 2.4E-02 | 361 | 1 | 0.96 | 1E-06  | 8.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.32E-07  | 0.1316 |
| 296      | 1.21473 | 0.0187 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 7.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.27E-07  | 0.1271 |
| 297      | 1.13348 | 0.0187 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.19E-07  | 0.1186 |
| 298      | 1.02677 | 0.0187 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.07E-07  | 0.1074 |
| 299      | 0.91652 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.59E-08  | 0.0959 |
| 300      | 0.80208 | 0.0187 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.39E-08  | 0.0839 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 301      | 0.6609  | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.91E-08  | 0.0691 |
| 302      | 0.58197 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.09E-08  | 0.0609 |
| 303      | 0.39159 | 0.0187 | 7.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.10E-08  | 0.0410 |
| 304      | 0.35914 | 0.0187 | 6.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.76E-08  | 0.0376 |
| 305      | 0.35529 | 0.0187 | 6.6E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.72E-08  | 0.0372 |
| 306      | 0.34386 | 0.0187 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.60E-08  | 0.0360 |
| 307      | 0.35356 | 0.0187 | 6.6E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.70E-08  | 0.0370 |
| 308      | 0.39073 | 0.0187 | 7.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.09E-08  | 0.0409 |
| 309      | 0.44141 | 0.0187 | 8.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.62E-08  | 0.0462 |
| 310      | 0.47846 | 0.0187 | 8.9E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.01E-08  | 0.0501 |
| 311      | 0.56418 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.90E-08  | 0.0590 |
| 312      | 0.67741 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.09E-08  | 0.0709 |
| 313      | 0.80426 | 0.0187 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.41E-08  | 0.0841 |
| 314      | 0.92054 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 6.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.63E-08  | 0.0963 |
| 315      | 1.00261 | 0.0187 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.05E-07  | 0.1049 |
| 316      | 1.03928 | 0.0187 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.09E-07  | 0.1087 |
| 317      | 1.02828 | 0.0187 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.08E-07  | 0.1076 |
| 318      | 0.98264 | 0.0187 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06  | 6.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.03E-07  | 0.1028 |
| 319      | 0.91474 | 0.0187 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.57E-08  | 0.0957 |
| 320      | 0.82666 | 0.0187 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.65E-08  | 0.0865 |
| 321      | 0.74121 | 0.0187 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.76E-08  | 0.0776 |
| 322      | 0.6153  | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.44E-08  | 0.0644 |
| 323      | 0.55156 | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.77E-08  | 0.0577 |
| 324      | 0.38105 | 0.0187 | 7.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.99E-08  | 0.0399 |
| 325      | 0.33126 | 0.0187 | 6.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.47E-08  | 0.0347 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 326      | 0.32305 | 0.0187 | 6.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.38E-08  | 0.0338 |
| 327      | 0.29252 | 0.0187 | 5.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.06E-08  | 0.0306 |
| 328      | 0.29248 | 0.0187 | 5.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.06E-08  | 0.0306 |
| 329      | 0.317   | 0.0187 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.32E-08  | 0.0332 |
| 330      | 0.33066 | 0.0187 | 6.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.46E-08  | 0.0346 |
| 331      | 0.35869 | 0.0187 | 6.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.75E-08  | 0.0375 |
| 332      | 0.40288 | 0.0187 | 7.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.22E-08  | 0.0422 |
| 333      | 0.4573  | 0.0187 | 8.6E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.78E-08  | 0.0478 |
| 334      | 0.53898 | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.64E-08  | 0.0564 |
| 335      | 0.63508 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.64E-08  | 0.0664 |
| 336      | 0.73114 | 0.0187 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.65E-08  | 0.0765 |
| 337      | 0.80795 | 0.0187 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.45E-08  | 0.0845 |
| 338      | 0.85925 | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.99E-08  | 0.0899 |
| 339      | 0.87375 | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.14E-08  | 0.0914 |
| 340      | 0.85425 | 0.0187 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.94E-08  | 0.0894 |
| 341      | 0.81269 | 0.0187 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.50E-08  | 0.0850 |
| 342      | 0.72959 | 0.0187 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.63E-08  | 0.0763 |
| 343      | 0.67174 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.03E-08  | 0.0703 |
| 344      | 0.57305 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.00E-08  | 0.0600 |
| 345      | 0.51872 | 0.0187 | 9.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.43E-08  | 0.0543 |
| 346      | 0.29019 | 0.0187 | 5.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.04E-08  | 0.0304 |
| 347      | 0.27864 | 0.0187 | 5.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.92E-08  | 0.0292 |
| 348      | 0.26697 | 0.0187 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.79E-08  | 0.0279 |
| 349      | 0.25326 | 0.0187 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.65E-08  | 0.0265 |
| 350      | 0.25562 | 0.0187 | 4.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.67E-08  | 0.0267 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 351      | 0.2724  | 0.0187 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.85E-08  | 0.0285 |
| 352      | 0.28943 | 0.0187 | 5.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.03E-08  | 0.0303 |
| 353      | 0.3067  | 0.0187 | 5.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.21E-08  | 0.0321 |
| 354      | 0.33648 | 0.0187 | 6.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.52E-08  | 0.0352 |
| 355      | 0.3689  | 0.0187 | 6.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.86E-08  | 0.0386 |
| 356      | 0.44002 | 0.0187 | 8.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.60E-08  | 0.0460 |
| 357      | 0.51306 | 0.0187 | 9.6E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.37E-08  | 0.0537 |
| 358      | 0.59206 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.19E-08  | 0.0619 |
| 359      | 0.66144 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.92E-08  | 0.0692 |
| 360      | 0.71417 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.47E-08  | 0.0747 |
| 361      | 0.73968 | 0.0187 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.74E-08  | 0.0774 |
| 362      | 0.74345 | 0.0187 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.78E-08  | 0.0778 |
| 363      | 0.71982 | 0.0187 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.53E-08  | 0.0753 |
| 364      | 0.65107 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.81E-08  | 0.0681 |
| 365      | 0.60983 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.38E-08  | 0.0638 |
| 366      | 0.53056 | 0.0187 | 9.9E-03 | 361 | 1 | 0.96 | 1E-06  | 3.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.55E-08  | 0.0555 |
| 367      | 0.48574 | 0.0187 | 9.1E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.08E-08  | 0.0508 |
| 368      | 0.25159 | 0.0187 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.63E-08  | 0.0263 |
| 369      | 0.24678 | 0.0187 | 4.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.58E-08  | 0.0258 |
| 370      | 0.23335 | 0.0187 | 4.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.44E-08  | 0.0244 |
| 371      | 0.21774 | 0.0187 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.28E-08  | 0.0228 |
| 372      | 0.22662 | 0.0187 | 4.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.37E-08  | 0.0237 |
| 373      | 0.22108 | 0.0187 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.31E-08  | 0.0231 |
| 374      | 0.24111 | 0.0187 | 4.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.52E-08  | 0.0252 |
| 375      | 0.25062 | 0.0187 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.62E-08  | 0.0262 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     |           | (Risk / |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)   |
| 376      | 0.27425 | 0.0187 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.87E-08  | 0.0287  |
| 377      | 0.29662 | 0.0187 | 5.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.10E-08  | 0.0310  |
| 378      | 0.31582 | 0.0187 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.30E-08  | 0.0330  |
| 379      | 0.36484 | 0.0187 | 6.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.82E-08  | 0.0382  |
| 380      | 0.40393 | 0.0187 | 7.6E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.23E-08  | 0.0423  |
| 381      | 0.48601 | 0.0187 | 9.1E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.08E-08  | 0.0508  |
| 382      | 0.5477  | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.73E-08  | 0.0573  |
| 383      | 0.59749 | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.25E-08  | 0.0625  |
| 384      | 0.62971 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.59E-08  | 0.0659  |
| 385      | 0.64012 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.70E-08  | 0.0670  |
| 386      | 0.62903 | 0.0187 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.58E-08  | 0.0658  |
| 387      | 0.5807  | 0.0187 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.08E-08  | 0.0608  |
| 388      | 0.55072 | 0.0187 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.76E-08  | 0.0576  |
| 389      | 0.49043 | 0.0187 | 9.2E-03 | 361 | 1 | 0.96 | 1E-06  | 3.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.13E-08  | 0.0513  |
| 390      | 0.45288 | 0.0187 | 8.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.74E-08  | 0.0474  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 2.67E-03 | 5   | 5.33E-04 | 3.20E-02 |
| 2  | 2.50E-03 | 5   | 5.00E-04 |          |
| 3  | 2.28E-03 | 5   | 4.57E-04 |          |
| 4  | 2.12E-03 | 5   | 4.23E-04 |          |
| 5  | 1.93E-03 | 5   | 3.86E-04 |          |
| 6  | 1.79E-03 | 5   | 3.59E-04 |          |
| 7  | 3.39E-03 | 5   | 6.78E-04 |          |
| 8  | 3.10E-03 | 5   | 6.21E-04 |          |
| 9  | 2.72E-03 | 5   | 5.45E-04 |          |
| 10 | 2.54E-03 | 5   | 5.07E-04 |          |
| 11 | 2.23E-03 | 5   | 4.45E-04 |          |
| 12 | 2.09E-03 | 5   | 4.18E-04 |          |
| 13 | 1.97E-03 | 5   | 3.93E-04 |          |
| 14 | 3.72E-03 | 5   | 7.44E-04 |          |
| 15 | 3.47E-03 | 5   | 6.93E-04 |          |
| 16 | 3.11E-03 | 5   | 6.23E-04 |          |
| 17 | 2.74E-03 | 5   | 5.48E-04 |          |
| 18 | 2.49E-03 | 5   | 4.98E-04 |          |
| 19 | 2.27E-03 | 5   | 4.54E-04 |          |
| 20 | 2.12E-03 | 5   | 4.24E-04 |          |
| 21 | 8.19E-03 | 5   | 1.64E-03 |          |
| 22 | 9.38E-03 | 5   | 1.88E-03 |          |
| 23 | 1.01E-02 | 5   | 2.01E-03 |          |
| 24 | 1.03E-02 | 5   | 2.06E-03 |          |
| 25 | 1.14E-02 | 5   | 2.28E-03 |          |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 1.11E-02    | 5          | 2.23E-03  |
| 27       | 1.02E-02    | 5          | 2.05E-03  |
| 28       | 9.11E-03    | 5          | 1.82E-03  |
| 29       | 7.71E-03    | 5          | 1.54E-03  |
| 30       | 5.06E-03    | 5          | 1.01E-03  |
| 31       | 4.67E-03    | 5          | 9.34E-04  |
| 32       | 3.81E-03    | 5          | 7.62E-04  |
| 33       | 3.62E-03    | 5          | 7.24E-04  |
| 34       | 3.00E-03    | 5          | 6.01E-04  |
| 35       | 2.78E-03    | 5          | 5.55E-04  |
| 36       | 2.48E-03    | 5          | 4.97E-04  |
| 37       | 2.35E-03    | 5          | 4.69E-04  |
| 38       | 1.10E-02    | 5          | 2.21E-03  |
| 39       | 1.00E-02    | 5          | 2.00E-03  |
| 40       | 1.07E-02    | 5          | 2.14E-03  |
| 41       | 1.09E-02    | 5          | 2.19E-03  |
| 42       | 1.15E-02    | 5          | 2.31E-03  |
| 43       | 1.19E-02    | 5          | 2.39E-03  |
| 44       | 1.13E-02    | 5          | 2.27E-03  |
| 45       | 1.00E-02    | 5          | 2.01E-03  |
| 46       | 8.59E-03    | 5          | 1.72E-03  |
| 47       | 7.81E-03    | 5          | 1.56E-03  |
| 48       | 6.16E-03    | 5          | 1.23E-03  |
| 49       | 5.33E-03    | 5          | 1.07E-03  |
| 50       | 4.83E-03    | 5          | 9.65E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 4.32E-03    | 5          | 8.65E-04  |
| 52       | 3.45E-03    | 5          | 6.89E-04  |
| 53       | 3.05E-03    | 5          | 6.09E-04  |
| 54       | 2.79E-03    | 5          | 5.59E-04  |
| 55       | 2.85E-03    | 5          | 5.70E-04  |
| 56       | 1.04E-02    | 5          | 2.09E-03  |
| 57       | 1.06E-02    | 5          | 2.13E-03  |
| 58       | 1.10E-02    | 5          | 2.20E-03  |
| 59       | 1.28E-02    | 5          | 2.56E-03  |
| 60       | 1.30E-02    | 5          | 2.59E-03  |
| 61       | 1.38E-02    | 5          | 2.76E-03  |
| 62       | 1.35E-02    | 5          | 2.70E-03  |
| 63       | 1.17E-02    | 5          | 2.34E-03  |
| 64       | 1.06E-02    | 5          | 2.11E-03  |
| 65       | 8.66E-03    | 5          | 1.73E-03  |
| 66       | 8.74E-03    | 5          | 1.75E-03  |
| 67       | 6.15E-03    | 5          | 1.23E-03  |
| 68       | 5.47E-03    | 5          | 1.09E-03  |
| 69       | 5.06E-03    | 5          | 1.01E-03  |
| 70       | 4.89E-03    | 5          | 9.77E-04  |
| 71       | 3.82E-03    | 5          | 7.64E-04  |
| 72       | 3.56E-03    | 5          | 7.13E-04  |
| 73       | 4.12E-03    | 5          | 8.23E-04  |
| 74       | 1.17E-02    | 5          | 2.34E-03  |
| 75       | 1.22E-02    | 5          | 2.43E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 1.22E-02    | 5          | 2.45E-03  |
| 77       | 1.38E-02    | 5          | 2.75E-03  |
| 78       | 1.58E-02    | 5          | 3.17E-03  |
| 79       | 1.66E-02    | 5          | 3.32E-03  |
| 80       | 1.69E-02    | 5          | 3.38E-03  |
| 81       | 1.54E-02    | 5          | 3.09E-03  |
| 82       | 1.33E-02    | 5          | 2.65E-03  |
| 83       | 1.12E-02    | 5          | 2.23E-03  |
| 84       | 1.27E-02    | 5          | 2.54E-03  |
| 85       | 6.47E-03    | 5          | 1.29E-03  |
| 86       | 5.90E-03    | 5          | 1.18E-03  |
| 87       | 5.65E-03    | 5          | 1.13E-03  |
| 88       | 5.35E-03    | 5          | 1.07E-03  |
| 89       | 5.04E-03    | 5          | 1.01E-03  |
| 90       | 4.82E-03    | 5          | 9.64E-04  |
| 91       | 1.43E-02    | 5          | 2.86E-03  |
| 92       | 1.46E-02    | 5          | 2.93E-03  |
| 93       | 1.67E-02    | 5          | 3.35E-03  |
| 94       | 1.77E-02    | 5          | 3.54E-03  |
| 95       | 1.94E-02    | 5          | 3.89E-03  |
| 96       | 2.10E-02    | 5          | 4.20E-03  |
| 97       | 1.95E-02    | 5          | 3.90E-03  |
| 98       | 1.69E-02    | 5          | 3.38E-03  |
| 99       | 1.65E-02    | 5          | 3.30E-03  |
| 100      | 8.25E-03    | 5          | 1.65E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 6.88E-03 | 5   | 1.38E-03 |
| 102           | 6.44E-03 | 5   | 1.29E-03 |
| 103           | 6.13E-03 | 5   | 1.23E-03 |
| 104           | 5.72E-03 | 5   | 1.14E-03 |
| 105           | 5.16E-03 | 5   | 1.03E-03 |
| 106           | 1.51E-02 | 5   | 3.03E-03 |
| 107           | 1.56E-02 | 5   | 3.13E-03 |
| 108           | 1.77E-02 | 5   | 3.53E-03 |
| 109           | 1.85E-02 | 5   | 3.69E-03 |
| 110           | 2.12E-02 | 5   | 4.23E-03 |
| 111           | 2.44E-02 | 5   | 4.88E-03 |
| 112           | 2.64E-02 | 5   | 5.29E-03 |
| 113           | 2.66E-02 | 5   | 5.32E-03 |
| 114           | 2.54E-02 | 5   | 5.09E-03 |
| 115           | 7.65E-03 | 5   | 1.53E-03 |
| 116           | 7.38E-03 | 5   | 1.48E-03 |
| 117           | 7.16E-03 | 5   | 1.43E-03 |
| 118           | 6.27E-03 | 5   | 1.25E-03 |
| 119           | 5.32E-03 | 5   | 1.06E-03 |
| 120           | 1.74E-02 | 5   | 3.48E-03 |
| 121           | 1.62E-02 | 5   | 3.24E-03 |
| 122           | 1.85E-02 | 5   | 3.69E-03 |
| 123           | 2.19E-02 | 5   | 4.37E-03 |
| 124           | 2.59E-02 | 5   | 5.18E-03 |
| 125           | 2.96E-02 | 5   | 5.92E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 126      | 3.68E-02 | 5   | 7.36E-03 |
| 127      | 4.40E-02 | 5   | 8.80E-03 |
| 128      | 1.23E-02 | 5   | 2.45E-03 |
| 129      | 1.03E-02 | 5   | 2.06E-03 |
| 130      | 8.71E-03 | 5   | 1.74E-03 |
| 131      | 7.11E-03 | 5   | 1.42E-03 |
| 132      | 4.89E-03 | 5   | 9.77E-04 |
| 133      | 1.59E-02 | 5   | 3.18E-03 |
| 134      | 2.01E-02 | 5   | 4.02E-03 |
| 135      | 2.53E-02 | 5   | 5.06E-03 |
| 136      | 2.95E-02 | 5   | 5.89E-03 |
| 137      | 3.61E-02 | 5   | 7.22E-03 |
| 138      | 5.07E-02 | 5   | 1.01E-02 |
| 139      | 1.07E-01 | 5   | 2.14E-02 |
| 140      | 1.25E-02 | 5   | 2.51E-03 |
| 141      | 9.89E-03 | 5   | 1.98E-03 |
| 142      | 8.17E-03 | 5   | 1.63E-03 |
| 143      | 5.47E-03 | 5   | 1.09E-03 |
| 144      | 2.35E-02 | 5   | 4.69E-03 |
| 145      | 3.09E-02 | 5   | 6.18E-03 |
| 146      | 3.71E-02 | 5   | 7.42E-03 |
| 147      | 4.95E-02 | 5   | 9.90E-03 |
| 148      | 7.28E-02 | 5   | 1.46E-02 |
| 149      | 6.57E-02 | 5   | 1.31E-02 |
| 150      | 3.81E-02 | 5   | 7.61E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 2.81E-02 | 5   | 5.63E-03 |
| 152           | 2.29E-02 | 5   | 4.57E-03 |
| 153           | 1.33E-02 | 5   | 2.65E-03 |
| 154           | 1.09E-02 | 5   | 2.17E-03 |
| 155           | 8.84E-03 | 5   | 1.77E-03 |
| 156           | 7.55E-03 | 5   | 1.51E-03 |
| 157           | 6.25E-02 | 5   | 1.25E-02 |
| 158           | 7.04E-02 | 5   | 1.41E-02 |
| 159           | 8.49E-02 | 5   | 1.70E-02 |
| 160           | 4.73E-02 | 5   | 9.46E-03 |
| 161           | 3.09E-02 | 5   | 6.18E-03 |
| 162           | 2.27E-02 | 5   | 4.54E-03 |
| 163           | 1.09E-02 | 5   | 2.19E-03 |
| 164           | 9.58E-03 | 5   | 1.92E-03 |
| 165           | 8.04E-03 | 5   | 1.61E-03 |
| 166           | 1.00E-01 | 5   | 2.00E-02 |
| 167           | 5.49E-02 | 5   | 1.10E-02 |
| 168           | 3.77E-02 | 5   | 7.54E-03 |
| 169           | 2.67E-02 | 5   | 5.33E-03 |
| 170           | 2.03E-02 | 5   | 4.06E-03 |
| 171           | 1.27E-02 | 5   | 2.55E-03 |
| 172           | 9.65E-03 | 5   | 1.93E-03 |
| 173           | 8.00E-03 | 5   | 1.60E-03 |
| 174           | 1.60E-01 | 5   | 3.20E-02 |
| 175           | 1.01E-01 | 5   | 2.02E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 6.23E-02 | 5   | 1.25E-02 |
| 177           | 4.23E-02 | 5   | 8.47E-03 |
| 178           | 2.98E-02 | 5   | 5.97E-03 |
| 179           | 2.16E-02 | 5   | 4.33E-03 |
| 180           | 1.67E-02 | 5   | 3.34E-03 |
| 181           | 1.16E-02 | 5   | 2.32E-03 |
| 182           | 9.46E-03 | 5   | 1.89E-03 |
| 183           | 1.34E-01 | 5   | 2.67E-02 |
| 184           | 9.47E-02 | 5   | 1.89E-02 |
| 185           | 6.60E-02 | 5   | 1.32E-02 |
| 186           | 4.51E-02 | 5   | 9.02E-03 |
| 187           | 3.30E-02 | 5   | 6.60E-03 |
| 188           | 2.45E-02 | 5   | 4.90E-03 |
| 189           | 1.89E-02 | 5   | 3.78E-03 |
| 190           | 1.50E-02 | 5   | 3.01E-03 |
| 191           | 1.56E-01 | 5   | 3.11E-02 |
| 192           | 1.13E-01 | 5   | 2.25E-02 |
| 193           | 8.34E-02 | 5   | 1.67E-02 |
| 194           | 6.23E-02 | 5   | 1.25E-02 |
| 195           | 4.61E-02 | 5   | 9.21E-03 |
| 196           | 3.44E-02 | 5   | 6.89E-03 |
| 197           | 2.66E-02 | 5   | 5.31E-03 |
| 198           | 2.03E-02 | 5   | 4.07E-03 |
| 199           | 1.64E-02 | 5   | 3.28E-03 |
| 200           | 1.35E-02 | 5   | 2.70E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 201      | 6.08E-02 | 5   | 1.22E-02 |
| 202      | 9.26E-02 | 5   | 1.85E-02 |
| 203      | 1.10E-01 | 5   | 2.19E-02 |
| 204      | 1.19E-01 | 5   | 2.39E-02 |
| 205      | 1.10E-01 | 5   | 2.21E-02 |
| 206      | 9.13E-02 | 5   | 1.83E-02 |
| 207      | 7.35E-02 | 5   | 1.47E-02 |
| 208      | 5.79E-02 | 5   | 1.16E-02 |
| 209      | 4.47E-02 | 5   | 8.94E-03 |
| 210      | 3.49E-02 | 5   | 6.98E-03 |
| 211      | 2.74E-02 | 5   | 5.49E-03 |
| 212      | 2.14E-02 | 5   | 4.29E-03 |
| 213      | 1.75E-02 | 5   | 3.51E-03 |
| 214      | 1.40E-02 | 5   | 2.80E-03 |
| 215      | 1.17E-02 | 5   | 2.35E-03 |
| 216      | 2.83E-02 | 5   | 5.66E-03 |
| 217      | 3.27E-02 | 5   | 6.55E-03 |
| 218      | 4.51E-02 | 5   | 9.01E-03 |
| 219      | 5.78E-02 | 5   | 1.16E-02 |
| 220      | 6.82E-02 | 5   | 1.36E-02 |
| 221      | 7.25E-02 | 5   | 1.45E-02 |
| 222      | 6.96E-02 | 5   | 1.39E-02 |
| 223      | 6.09E-02 | 5   | 1.22E-02 |
| 224      | 5.09E-02 | 5   | 1.02E-02 |
| 225      | 4.13E-02 | 5   | 8.25E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 226      | 3.32E-02 | 5   | 6.63E-03 |
| 227      | 2.70E-02 | 5   | 5.39E-03 |
| 228      | 2.18E-02 | 5   | 4.36E-03 |
| 229      | 1.77E-02 | 5   | 3.53E-03 |
| 230      | 1.45E-02 | 5   | 2.91E-03 |
| 231      | 1.16E-02 | 5   | 2.33E-03 |
| 232      | 1.98E-02 | 5   | 3.96E-03 |
| 233      | 2.09E-02 | 5   | 4.18E-03 |
| 234      | 2.76E-02 | 5   | 5.53E-03 |
| 235      | 3.54E-02 | 5   | 7.09E-03 |
| 236      | 4.34E-02 | 5   | 8.67E-03 |
| 237      | 5.07E-02 | 5   | 1.01E-02 |
| 238      | 5.17E-02 | 5   | 1.03E-02 |
| 239      | 4.80E-02 | 5   | 9.61E-03 |
| 240      | 4.27E-02 | 5   | 8.54E-03 |
| 241      | 3.62E-02 | 5   | 7.24E-03 |
| 242      | 3.05E-02 | 5   | 6.10E-03 |
| 243      | 2.54E-02 | 5   | 5.07E-03 |
| 244      | 2.12E-02 | 5   | 4.25E-03 |
| 245      | 1.72E-02 | 5   | 3.44E-03 |
| 246      | 1.46E-02 | 5   | 2.92E-03 |
| 247      | 1.18E-02 | 5   | 2.36E-03 |
| 248      | 1.62E-02 | 5   | 3.24E-03 |
| 249      | 1.60E-02 | 5   | 3.20E-03 |
| 250      | 1.88E-02 | 5   | 3.75E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 2.41E-02 | 5   | 4.82E-03 |
| 252           | 3.06E-02 | 5   | 6.12E-03 |
| 253           | 3.56E-02 | 5   | 7.11E-03 |
| 254           | 3.79E-02 | 5   | 7.58E-03 |
| 255           | 3.76E-02 | 5   | 7.52E-03 |
| 256           | 3.52E-02 | 5   | 7.04E-03 |
| 257           | 3.15E-02 | 5   | 6.29E-03 |
| 258           | 2.73E-02 | 5   | 5.46E-03 |
| 259           | 2.35E-02 | 5   | 4.69E-03 |
| 260           | 2.01E-02 | 5   | 4.02E-03 |
| 261           | 1.67E-02 | 5   | 3.34E-03 |
| 262           | 1.43E-02 | 5   | 2.85E-03 |
| 263           | 1.18E-02 | 5   | 2.36E-03 |
| 264           | 1.08E-02 | 5   | 2.17E-03 |
| 265           | 1.05E-02 | 5   | 2.10E-03 |
| 266           | 1.08E-02 | 5   | 2.17E-03 |
| 267           | 1.24E-02 | 5   | 2.49E-03 |
| 268           | 1.24E-02 | 5   | 2.47E-03 |
| 269           | 1.39E-02 | 5   | 2.78E-03 |
| 270           | 1.72E-02 | 5   | 3.44E-03 |
| 271           | 2.19E-02 | 5   | 4.37E-03 |
| 272           | 2.59E-02 | 5   | 5.18E-03 |
| 273           | 2.86E-02 | 5   | 5.72E-03 |
| 274           | 2.96E-02 | 5   | 5.91E-03 |
| 275           | 2.87E-02 | 5   | 5.73E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 276           | 2.68E-02 | 5   | 5.35E-03 |
| 277           | 2.41E-02 | 5   | 4.82E-03 |
| 278           | 2.13E-02 | 5   | 4.27E-03 |
| 279           | 1.87E-02 | 5   | 3.74E-03 |
| 280           | 1.60E-02 | 5   | 3.19E-03 |
| 281           | 1.35E-02 | 5   | 2.70E-03 |
| 282           | 1.14E-02 | 5   | 2.27E-03 |
| 283           | 8.62E-03 | 5   | 1.72E-03 |
| 284           | 8.27E-03 | 5   | 1.65E-03 |
| 285           | 8.10E-03 | 5   | 1.62E-03 |
| 286           | 8.57E-03 | 5   | 1.71E-03 |
| 287           | 9.78E-03 | 5   | 1.96E-03 |
| 288           | 1.07E-02 | 5   | 2.13E-03 |
| 289           | 1.11E-02 | 5   | 2.22E-03 |
| 290           | 1.34E-02 | 5   | 2.68E-03 |
| 291           | 1.64E-02 | 5   | 3.27E-03 |
| 292           | 1.95E-02 | 5   | 3.90E-03 |
| 293           | 2.20E-02 | 5   | 4.40E-03 |
| 294           | 2.34E-02 | 5   | 4.69E-03 |
| 295           | 2.35E-02 | 5   | 4.70E-03 |
| 296           | 2.27E-02 | 5   | 4.54E-03 |
| 297           | 2.12E-02 | 5   | 4.24E-03 |
| 298           | 1.92E-02 | 5   | 3.84E-03 |
| 299           | 1.71E-02 | 5   | 3.43E-03 |
| 300           | 1.50E-02 | 5   | 3.00E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 301      | 1.24E-02 | 5   | 2.47E-03 |
| 302      | 1.09E-02 | 5   | 2.18E-03 |
| 303      | 7.32E-03 | 5   | 1.46E-03 |
| 304      | 6.72E-03 | 5   | 1.34E-03 |
| 305      | 6.64E-03 | 5   | 1.33E-03 |
| 306      | 6.43E-03 | 5   | 1.29E-03 |
| 307      | 6.61E-03 | 5   | 1.32E-03 |
| 308      | 7.31E-03 | 5   | 1.46E-03 |
| 309      | 8.25E-03 | 5   | 1.65E-03 |
| 310      | 8.95E-03 | 5   | 1.79E-03 |
| 311      | 1.05E-02 | 5   | 2.11E-03 |
| 312      | 1.27E-02 | 5   | 2.53E-03 |
| 313      | 1.50E-02 | 5   | 3.01E-03 |
| 314      | 1.72E-02 | 5   | 3.44E-03 |
| 315      | 1.87E-02 | 5   | 3.75E-03 |
| 316      | 1.94E-02 | 5   | 3.89E-03 |
| 317      | 1.92E-02 | 5   | 3.85E-03 |
| 318      | 1.84E-02 | 5   | 3.67E-03 |
| 319      | 1.71E-02 | 5   | 3.42E-03 |
| 320      | 1.55E-02 | 5   | 3.09E-03 |
| 321      | 1.39E-02 | 5   | 2.77E-03 |
| 322      | 1.15E-02 | 5   | 2.30E-03 |
| 323      | 1.03E-02 | 5   | 2.06E-03 |
| 324      | 7.13E-03 | 5   | 1.43E-03 |
| 325      | 6.19E-03 | 5   | 1.24E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 326           | 6.04E-03 | 5   | 1.21E-03 |
| 327           | 5.47E-03 | 5   | 1.09E-03 |
| 328           | 5.47E-03 | 5   | 1.09E-03 |
| 329           | 5.93E-03 | 5   | 1.19E-03 |
| 330           | 6.18E-03 | 5   | 1.24E-03 |
| 331           | 6.71E-03 | 5   | 1.34E-03 |
| 332           | 7.53E-03 | 5   | 1.51E-03 |
| 333           | 8.55E-03 | 5   | 1.71E-03 |
| 334           | 1.01E-02 | 5   | 2.02E-03 |
| 335           | 1.19E-02 | 5   | 2.38E-03 |
| 336           | 1.37E-02 | 5   | 2.73E-03 |
| 337           | 1.51E-02 | 5   | 3.02E-03 |
| 338           | 1.61E-02 | 5   | 3.21E-03 |
| 339           | 1.63E-02 | 5   | 3.27E-03 |
| 340           | 1.60E-02 | 5   | 3.19E-03 |
| 341           | 1.52E-02 | 5   | 3.04E-03 |
| 342           | 1.36E-02 | 5   | 2.73E-03 |
| 343           | 1.26E-02 | 5   | 2.51E-03 |
| 344           | 1.07E-02 | 5   | 2.14E-03 |
| 345           | 9.70E-03 | 5   | 1.94E-03 |
| 346           | 5.43E-03 | 5   | 1.09E-03 |
| 347           | 5.21E-03 | 5   | 1.04E-03 |
| 348           | 4.99E-03 | 5   | 9.98E-04 |
| 349           | 4.74E-03 | 5   | 9.47E-04 |
| 350           | 4.78E-03 | 5   | 9.56E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 5.09E-03 | 5   | 1.02E-03 |
| 352           | 5.41E-03 | 5   | 1.08E-03 |
| 353           | 5.74E-03 | 5   | 1.15E-03 |
| 354           | 6.29E-03 | 5   | 1.26E-03 |
| 355           | 6.90E-03 | 5   | 1.38E-03 |
| 356           | 8.23E-03 | 5   | 1.65E-03 |
| 357           | 9.59E-03 | 5   | 1.92E-03 |
| 358           | 1.11E-02 | 5   | 2.21E-03 |
| 359           | 1.24E-02 | 5   | 2.47E-03 |
| 360           | 1.34E-02 | 5   | 2.67E-03 |
| 361           | 1.38E-02 | 5   | 2.77E-03 |
| 362           | 1.39E-02 | 5   | 2.78E-03 |
| 363           | 1.35E-02 | 5   | 2.69E-03 |
| 364           | 1.22E-02 | 5   | 2.43E-03 |
| 365           | 1.14E-02 | 5   | 2.28E-03 |
| 366           | 9.92E-03 | 5   | 1.98E-03 |
| 367           | 9.08E-03 | 5   | 1.82E-03 |
| 368           | 4.70E-03 | 5   | 9.41E-04 |
| 369           | 4.61E-03 | 5   | 9.23E-04 |
| 370           | 4.36E-03 | 5   | 8.73E-04 |
| 371           | 4.07E-03 | 5   | 8.14E-04 |
| 372           | 4.24E-03 | 5   | 8.48E-04 |
| 373           | 4.13E-03 | 5   | 8.27E-04 |
| 374           | 4.51E-03 | 5   | 9.02E-04 |
| 375           | 4.69E-03 | 5   | 9.37E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 5.13E-03    | 5          | 1.03E-03  |
| 377      | 5.55E-03    | 5          | 1.11E-03  |
| 378      | 5.91E-03    | 5          | 1.18E-03  |
| 379      | 6.82E-03    | 5          | 1.36E-03  |
| 380      | 7.55E-03    | 5          | 1.51E-03  |
| 381      | 9.09E-03    | 5          | 1.82E-03  |
| 382      | 1.02E-02    | 5          | 2.05E-03  |
| 383      | 1.12E-02    | 5          | 2.23E-03  |
| 384      | 1.18E-02    | 5          | 2.36E-03  |
| 385      | 1.20E-02    | 5          | 2.39E-03  |
| 386      | 1.18E-02    | 5          | 2.35E-03  |
| 387      | 1.09E-02    | 5          | 2.17E-03  |
| 388      | 1.03E-02    | 5          | 2.06E-03  |
| 389      | 9.17E-03    | 5          | 1.83E-03  |
| 390      | 8.47E-03    | 5          | 1.69E-03  |

**Risk Calculations - 3rd Trimester Start  
Construction Phase 2A**



**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         | Consta |         |     |   |      |       |         |     |     |      |    |     | (Risk /   |        |                 |
|----------|---------|--------|---------|-----|---|------|-------|---------|-----|-----|------|----|-----|-----------|--------|-----------------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1   | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |                 |
| 1        | 0.14257 | 0.0102 | 1.5E-03 | 361 | 1 | 0.96 | 1E-06 | 5.1E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 8.17E-09  | 0.0082 | Max<br>4.91E-01 |
| 2        | 0.13369 | 0.0102 | 1.4E-03 | 361 | 1 | 0.96 | 1E-06 | 4.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 7.67E-09  | 0.0077 |                 |
| 3        | 0.12214 | 0.0102 | 1.3E-03 | 361 | 1 | 0.96 | 1E-06 | 4.3E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 7.00E-09  | 0.0070 |                 |
| 4        | 0.11318 | 0.0102 | 1.2E-03 | 361 | 1 | 0.96 | 1E-06 | 4.0E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 6.49E-09  | 0.0065 |                 |
| 5        | 0.10329 | 0.0102 | 1.1E-03 | 361 | 1 | 0.96 | 1E-06 | 3.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 5.92E-09  | 0.0059 |                 |
| 6        | 0.0959  | 0.0102 | 9.8E-04 | 361 | 1 | 0.96 | 1E-06 | 3.4E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 5.50E-09  | 0.0055 |                 |
| 7        | 0.18122 | 0.0102 | 1.9E-03 | 361 | 1 | 0.96 | 1E-06 | 6.4E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.04E-08  | 0.0104 |                 |
| 8        | 0.16599 | 0.0102 | 1.7E-03 | 361 | 1 | 0.96 | 1E-06 | 5.9E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 9.52E-09  | 0.0095 |                 |
| 9        | 0.14564 | 0.0102 | 1.5E-03 | 361 | 1 | 0.96 | 1E-06 | 5.2E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 8.35E-09  | 0.0084 |                 |
| 10       | 0.13566 | 0.0102 | 1.4E-03 | 361 | 1 | 0.96 | 1E-06 | 4.8E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 7.78E-09  | 0.0078 |                 |
| 11       | 0.11905 | 0.0102 | 1.2E-03 | 361 | 1 | 0.96 | 1E-06 | 4.2E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 6.83E-09  | 0.0068 |                 |
| 12       | 0.11174 | 0.0102 | 1.1E-03 | 361 | 1 | 0.96 | 1E-06 | 4.0E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 6.41E-09  | 0.0064 |                 |
| 13       | 0.10516 | 0.0102 | 1.1E-03 | 361 | 1 | 0.96 | 1E-06 | 3.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 6.03E-09  | 0.0060 |                 |
| 14       | 0.19891 | 0.0102 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06 | 7.1E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.14E-08  | 0.0114 |                 |
| 15       | 0.18538 | 0.0102 | 1.9E-03 | 361 | 1 | 0.96 | 1E-06 | 6.6E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.06E-08  | 0.0106 |                 |
| 16       | 0.16647 | 0.0102 | 1.7E-03 | 361 | 1 | 0.96 | 1E-06 | 5.9E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 9.55E-09  | 0.0095 |                 |
| 17       | 0.14661 | 0.0102 | 1.5E-03 | 361 | 1 | 0.96 | 1E-06 | 5.2E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 8.41E-09  | 0.0084 |                 |
| 18       | 0.13322 | 0.0102 | 1.4E-03 | 361 | 1 | 0.96 | 1E-06 | 4.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 7.64E-09  | 0.0076 |                 |
| 19       | 0.12149 | 0.0102 | 1.2E-03 | 361 | 1 | 0.96 | 1E-06 | 4.3E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 6.97E-09  | 0.0070 |                 |
| 20       | 0.11331 | 0.0102 | 1.2E-03 | 361 | 1 | 0.96 | 1E-06 | 4.0E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 6.50E-09  | 0.0065 |                 |
| 21       | 0.43801 | 0.0102 | 4.5E-03 | 361 | 1 | 0.96 | 1E-06 | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.51E-08  | 0.0251 |                 |
| 22       | 0.5016  | 0.0102 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06 | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.88E-08  | 0.0288 |                 |
| 23       | 0.53845 | 0.0102 | 5.5E-03 | 361 | 1 | 0.96 | 1E-06 | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.09E-08  | 0.0309 |                 |
| 24       | 0.55059 | 0.0102 | 5.6E-03 | 361 | 1 | 0.96 | 1E-06 | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.16E-08  | 0.0316 |                 |
| 25       | 0.61064 | 0.0102 | 6.3E-03 | 361 | 1 | 0.96 | 1E-06 | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.50E-08  | 0.0350 |                 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 26       | 0.59517 | 0.0102 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.41E-08  | 0.0341 |
| 27       | 0.54814 | 0.0102 | 5.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.14E-08  | 0.0314 |
| 28       | 0.48705 | 0.0102 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.79E-08  | 0.0279 |
| 29       | 0.41251 | 0.0102 | 4.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.37E-08  | 0.0237 |
| 30       | 0.27062 | 0.0102 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06  | 9.6E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.55E-08  | 0.0155 |
| 31       | 0.24985 | 0.0102 | 2.6E-03 | 361 | 1 | 0.96 | 1E-06  | 8.9E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.43E-08  | 0.0143 |
| 32       | 0.20383 | 0.0102 | 2.1E-03 | 361 | 1 | 0.96 | 1E-06  | 7.2E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.17E-08  | 0.0117 |
| 33       | 0.19347 | 0.0102 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06  | 6.9E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.11E-08  | 0.0111 |
| 34       | 0.16069 | 0.0102 | 1.6E-03 | 361 | 1 | 0.96 | 1E-06  | 5.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 9.21E-09  | 0.0092 |
| 35       | 0.14853 | 0.0102 | 1.5E-03 | 361 | 1 | 0.96 | 1E-06  | 5.3E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 8.52E-09  | 0.0085 |
| 36       | 0.1328  | 0.0102 | 1.4E-03 | 361 | 1 | 0.96 | 1E-06  | 4.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 7.61E-09  | 0.0076 |
| 37       | 0.12553 | 0.0102 | 1.3E-03 | 361 | 1 | 0.96 | 1E-06  | 4.5E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 7.20E-09  | 0.0072 |
| 38       | 0.59038 | 0.0102 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.39E-08  | 0.0339 |
| 39       | 0.53496 | 0.0102 | 5.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.07E-08  | 0.0307 |
| 40       | 0.57248 | 0.0102 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.28E-08  | 0.0328 |
| 41       | 0.58509 | 0.0102 | 6.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.35E-08  | 0.0335 |
| 42       | 0.61645 | 0.0102 | 6.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.53E-08  | 0.0353 |
| 43       | 0.63781 | 0.0102 | 6.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.66E-08  | 0.0366 |
| 44       | 0.60659 | 0.0102 | 6.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.48E-08  | 0.0348 |
| 45       | 0.53649 | 0.0102 | 5.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.08E-08  | 0.0308 |
| 46       | 0.4596  | 0.0102 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.64E-08  | 0.0264 |
| 47       | 0.41777 | 0.0102 | 4.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.40E-08  | 0.0240 |
| 48       | 0.3294  | 0.0102 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.89E-08  | 0.0189 |
| 49       | 0.28523 | 0.0102 | 2.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.64E-08  | 0.0164 |
| 50       | 0.25804 | 0.0102 | 2.6E-03 | 361 | 1 | 0.96 | 1E-06  | 9.2E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.48E-08  | 0.0148 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 51       | 0.23121 | 0.0102 | 2.4E-03 | 361 | 1 | 0.96 | 1E-06  | 8.2E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.33E-08  | 0.0133 |
| 52       | 0.18436 | 0.0102 | 1.9E-03 | 361 | 1 | 0.96 | 1E-06  | 6.5E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.06E-08  | 0.0106 |
| 53       | 0.16289 | 0.0102 | 1.7E-03 | 361 | 1 | 0.96 | 1E-06  | 5.8E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 9.34E-09  | 0.0093 |
| 54       | 0.14939 | 0.0102 | 1.5E-03 | 361 | 1 | 0.96 | 1E-06  | 5.3E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 8.57E-09  | 0.0086 |
| 55       | 0.15235 | 0.0102 | 1.6E-03 | 361 | 1 | 0.96 | 1E-06  | 5.4E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 8.74E-09  | 0.0087 |
| 56       | 0.55797 | 0.0102 | 5.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.20E-08  | 0.0320 |
| 57       | 0.56885 | 0.0102 | 5.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.26E-08  | 0.0326 |
| 58       | 0.58821 | 0.0102 | 6.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.37E-08  | 0.0337 |
| 59       | 0.68345 | 0.0102 | 7.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.92E-08  | 0.0392 |
| 60       | 0.69254 | 0.0102 | 7.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.97E-08  | 0.0397 |
| 61       | 0.73699 | 0.0102 | 7.6E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.23E-08  | 0.0423 |
| 62       | 0.72167 | 0.0102 | 7.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.14E-08  | 0.0414 |
| 63       | 0.62652 | 0.0102 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.59E-08  | 0.0359 |
| 64       | 0.56525 | 0.0102 | 5.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.24E-08  | 0.0324 |
| 65       | 0.46307 | 0.0102 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.66E-08  | 0.0266 |
| 66       | 0.46763 | 0.0102 | 4.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.68E-08  | 0.0268 |
| 67       | 0.32884 | 0.0102 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.89E-08  | 0.0189 |
| 68       | 0.29277 | 0.0102 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.68E-08  | 0.0168 |
| 69       | 0.27065 | 0.0102 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06  | 9.6E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.55E-08  | 0.0155 |
| 70       | 0.26125 | 0.0102 | 2.7E-03 | 361 | 1 | 0.96 | 1E-06  | 9.3E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.50E-08  | 0.0150 |
| 71       | 0.20425 | 0.0102 | 2.1E-03 | 361 | 1 | 0.96 | 1E-06  | 7.2E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.17E-08  | 0.0117 |
| 72       | 0.1906  | 0.0102 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06  | 6.8E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.09E-08  | 0.0109 |
| 73       | 0.22012 | 0.0102 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 7.8E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.26E-08  | 0.0126 |
| 74       | 0.62675 | 0.0102 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.59E-08  | 0.0359 |
| 75       | 0.65056 | 0.0102 | 6.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.73E-08  | 0.0373 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 76       | 0.65456 | 0.0102 | 6.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.75E-08  | 0.0375 |
| 77       | 0.73638 | 0.0102 | 7.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.22E-08  | 0.0422 |
| 78       | 0.8471  | 0.0102 | 8.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.86E-08  | 0.0486 |
| 79       | 0.88849 | 0.0102 | 9.1E-03 | 361 | 1 | 0.96 | 1E-06  | 3.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.09E-08  | 0.0509 |
| 80       | 0.90496 | 0.0102 | 9.3E-03 | 361 | 1 | 0.96 | 1E-06  | 3.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.19E-08  | 0.0519 |
| 81       | 0.82607 | 0.0102 | 8.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.74E-08  | 0.0474 |
| 82       | 0.70876 | 0.0102 | 7.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.06E-08  | 0.0406 |
| 83       | 0.59652 | 0.0102 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.42E-08  | 0.0342 |
| 84       | 0.67997 | 0.0102 | 7.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.90E-08  | 0.0390 |
| 85       | 0.34615 | 0.0102 | 3.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.98E-08  | 0.0198 |
| 86       | 0.31525 | 0.0102 | 3.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.81E-08  | 0.0181 |
| 87       | 0.30195 | 0.0102 | 3.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.73E-08  | 0.0173 |
| 88       | 0.28593 | 0.0102 | 2.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.64E-08  | 0.0164 |
| 89       | 0.2696  | 0.0102 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06  | 9.6E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.55E-08  | 0.0155 |
| 90       | 0.25777 | 0.0102 | 2.6E-03 | 361 | 1 | 0.96 | 1E-06  | 9.1E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.48E-08  | 0.0148 |
| 91       | 0.7657  | 0.0102 | 7.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.39E-08  | 0.0439 |
| 92       | 0.78216 | 0.0102 | 8.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.48E-08  | 0.0448 |
| 93       | 0.89506 | 0.0102 | 9.2E-03 | 361 | 1 | 0.96 | 1E-06  | 3.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.13E-08  | 0.0513 |
| 94       | 0.94714 | 0.0102 | 9.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.43E-08  | 0.0543 |
| 95       | 1.04003 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.96E-08  | 0.0596 |
| 96       | 1.12421 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.45E-08  | 0.0645 |
| 97       | 1.04229 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.98E-08  | 0.0598 |
| 98       | 0.90305 | 0.0102 | 9.3E-03 | 361 | 1 | 0.96 | 1E-06  | 3.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.18E-08  | 0.0518 |
| 99       | 0.88258 | 0.0102 | 9.0E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.06E-08  | 0.0506 |
| 100      | 0.44117 | 0.0102 | 4.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.53E-08  | 0.0253 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 101      | 0.36795 | 0.0102 | 3.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.11E-08  | 0.0211 |
| 102      | 0.34454 | 0.0102 | 3.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.98E-08  | 0.0198 |
| 103      | 0.32801 | 0.0102 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.88E-08  | 0.0188 |
| 104      | 0.30575 | 0.0102 | 3.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.75E-08  | 0.0175 |
| 105      | 0.27575 | 0.0102 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06  | 9.8E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.58E-08  | 0.0158 |
| 106      | 0.80913 | 0.0102 | 8.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.64E-08  | 0.0464 |
| 107      | 0.83667 | 0.0102 | 8.6E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.80E-08  | 0.0480 |
| 108      | 0.94434 | 0.0102 | 9.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.41E-08  | 0.0541 |
| 109      | 0.98691 | 0.0102 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.66E-08  | 0.0566 |
| 110      | 1.13153 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.49E-08  | 0.0649 |
| 111      | 1.3058  | 0.0102 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.49E-08  | 0.0749 |
| 112      | 1.41351 | 0.0102 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 5.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.10E-08  | 0.0810 |
| 113      | 1.42196 | 0.0102 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.15E-08  | 0.0815 |
| 114      | 1.36036 | 0.0102 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.80E-08  | 0.0780 |
| 115      | 0.40925 | 0.0102 | 4.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.35E-08  | 0.0235 |
| 116      | 0.39445 | 0.0102 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.26E-08  | 0.0226 |
| 117      | 0.38313 | 0.0102 | 3.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.20E-08  | 0.0220 |
| 118      | 0.33537 | 0.0102 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.92E-08  | 0.0192 |
| 119      | 0.28473 | 0.0102 | 2.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.63E-08  | 0.0163 |
| 120      | 0.92954 | 0.0102 | 9.5E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.33E-08  | 0.0533 |
| 121      | 0.86551 | 0.0102 | 8.9E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.96E-08  | 0.0496 |
| 122      | 0.98739 | 0.0102 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.66E-08  | 0.0566 |
| 123      | 1.16933 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.70E-08  | 0.0670 |
| 124      | 1.386   | 0.0102 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.95E-08  | 0.0795 |
| 125      | 1.58316 | 0.0102 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.08E-08  | 0.0908 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 126      | 1.96907 | 0.0102 | 2.0E-02 | 361 | 1 | 0.96 | 1E-06  | 7.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.13E-07  | 0.1129 |
| 127      | 2.35262 | 0.0102 | 2.4E-02 | 361 | 1 | 0.96 | 1E-06  | 8.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.35E-07  | 0.1349 |
| 128      | 0.65638 | 0.0102 | 6.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.76E-08  | 0.0376 |
| 129      | 0.55176 | 0.0102 | 5.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.16E-08  | 0.0316 |
| 130      | 0.46604 | 0.0102 | 4.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.67E-08  | 0.0267 |
| 131      | 0.38018 | 0.0102 | 3.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.18E-08  | 0.0218 |
| 132      | 0.26126 | 0.0102 | 2.7E-03 | 361 | 1 | 0.96 | 1E-06  | 9.3E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.50E-08  | 0.0150 |
| 133      | 0.85154 | 0.0102 | 8.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.88E-08  | 0.0488 |
| 134      | 1.07595 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.17E-08  | 0.0617 |
| 135      | 1.3543  | 0.0102 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.77E-08  | 0.0777 |
| 136      | 1.57548 | 0.0102 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.03E-08  | 0.0903 |
| 137      | 1.93144 | 0.0102 | 2.0E-02 | 361 | 1 | 0.96 | 1E-06  | 6.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.11E-07  | 0.1107 |
| 138      | 2.71283 | 0.0102 | 2.8E-02 | 361 | 1 | 0.96 | 1E-06  | 9.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.56E-07  | 0.1555 |
| 139      | 5.71455 | 0.0102 | 5.9E-02 | 361 | 1 | 0.96 | 1E-06  | 2.0E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.28E-07  | 0.3277 |
| 140      | 0.67028 | 0.0102 | 6.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.84E-08  | 0.0384 |
| 141      | 0.52905 | 0.0102 | 5.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.03E-08  | 0.0303 |
| 142      | 0.43694 | 0.0102 | 4.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.51E-08  | 0.0251 |
| 143      | 0.29239 | 0.0102 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.68E-08  | 0.0168 |
| 144      | 1.25505 | 0.0102 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.20E-08  | 0.0720 |
| 145      | 1.65273 | 0.0102 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.48E-08  | 0.0948 |
| 146      | 1.98418 | 0.0102 | 2.0E-02 | 361 | 1 | 0.96 | 1E-06  | 7.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.14E-07  | 0.1138 |
| 147      | 2.64664 | 0.0102 | 2.7E-02 | 361 | 1 | 0.96 | 1E-06  | 9.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.52E-07  | 0.1518 |
| 148      | 3.89148 | 0.0102 | 4.0E-02 | 361 | 1 | 0.96 | 1E-06  | 1.4E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.23E-07  | 0.2231 |
| 149      | 3.51153 | 0.0102 | 3.6E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.01E-07  | 0.2013 |
| 150      | 2.03503 | 0.0102 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.17E-07  | 0.1167 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 151      | 1.50481 | 0.0102 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.63E-08  | 0.0863 |
| 152      | 1.22329 | 0.0102 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.01E-08  | 0.0701 |
| 153      | 0.70991 | 0.0102 | 7.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.07E-08  | 0.0407 |
| 154      | 0.58106 | 0.0102 | 6.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.33E-08  | 0.0333 |
| 155      | 0.47279 | 0.0102 | 4.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.71E-08  | 0.0271 |
| 156      | 0.40353 | 0.0102 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.31E-08  | 0.0231 |
| 157      | 3.34251 | 0.0102 | 3.4E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.92E-07  | 0.1917 |
| 158      | 3.76257 | 0.0102 | 3.9E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.16E-07  | 0.2157 |
| 159      | 4.54045 | 0.0102 | 4.7E-02 | 361 | 1 | 0.96 | 1E-06  | 1.6E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.60E-07  | 0.2603 |
| 160      | 2.52972 | 0.0102 | 2.6E-02 | 361 | 1 | 0.96 | 1E-06  | 9.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.45E-07  | 0.1450 |
| 161      | 1.65138 | 0.0102 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.47E-08  | 0.0947 |
| 162      | 1.21511 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.97E-08  | 0.0697 |
| 163      | 0.58478 | 0.0102 | 6.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.35E-08  | 0.0335 |
| 164      | 0.51231 | 0.0102 | 5.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.94E-08  | 0.0294 |
| 165      | 0.43002 | 0.0102 | 4.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.47E-08  | 0.0247 |
| 166      | 5.34751 | 0.0102 | 5.5E-02 | 361 | 1 | 0.96 | 1E-06  | 1.9E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.07E-07  | 0.3066 |
| 167      | 2.93781 | 0.0102 | 3.0E-02 | 361 | 1 | 0.96 | 1E-06  | 1.0E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.68E-07  | 0.1684 |
| 168      | 2.01593 | 0.0102 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.16E-07  | 0.1156 |
| 169      | 1.42521 | 0.0102 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.17E-08  | 0.0817 |
| 170      | 1.08462 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.22E-08  | 0.0622 |
| 171      | 0.68161 | 0.0102 | 7.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.91E-08  | 0.0391 |
| 172      | 0.51579 | 0.0102 | 5.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.96E-08  | 0.0296 |
| 173      | 0.42776 | 0.0102 | 4.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.45E-08  | 0.0245 |
| 174      | 8.55485 | 0.0102 | 8.8E-02 | 361 | 1 | 0.96 | 1E-06  | 3.0E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 4.91E-07  | 0.4905 |
| 175      | 5.40053 | 0.0102 | 5.5E-02 | 361 | 1 | 0.96 | 1E-06  | 1.9E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.10E-07  | 0.3097 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 176      | 3.33391 | 0.0102 | 3.4E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.91E-07  | 0.1912 |
| 177      | 2.2635  | 0.0102 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 8.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.30E-07  | 0.1298 |
| 178      | 1.59628 | 0.0102 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.15E-08  | 0.0915 |
| 179      | 1.15673 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.63E-08  | 0.0663 |
| 180      | 0.89425 | 0.0102 | 9.2E-03 | 361 | 1 | 0.96 | 1E-06  | 3.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.13E-08  | 0.0513 |
| 181      | 0.62061 | 0.0102 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.56E-08  | 0.0356 |
| 182      | 0.50601 | 0.0102 | 5.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.90E-08  | 0.0290 |
| 183      | 7.15077 | 0.0102 | 7.3E-02 | 361 | 1 | 0.96 | 1E-06  | 2.5E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 4.10E-07  | 0.4100 |
| 184      | 5.06388 | 0.0102 | 5.2E-02 | 361 | 1 | 0.96 | 1E-06  | 1.8E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.90E-07  | 0.2904 |
| 185      | 3.52857 | 0.0102 | 3.6E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.02E-07  | 0.2023 |
| 186      | 2.41297 | 0.0102 | 2.5E-02 | 361 | 1 | 0.96 | 1E-06  | 8.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.38E-07  | 0.1384 |
| 187      | 1.76478 | 0.0102 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06  | 6.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.01E-07  | 0.1012 |
| 188      | 1.30975 | 0.0102 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.51E-08  | 0.0751 |
| 189      | 1.01047 | 0.0102 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.79E-08  | 0.0579 |
| 190      | 0.80384 | 0.0102 | 8.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.61E-08  | 0.0461 |
| 191      | 8.32687 | 0.0102 | 8.5E-02 | 361 | 1 | 0.96 | 1E-06  | 3.0E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 4.77E-07  | 0.4774 |
| 192      | 6.02533 | 0.0102 | 6.2E-02 | 361 | 1 | 0.96 | 1E-06  | 2.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.45E-07  | 0.3455 |
| 193      | 4.45973 | 0.0102 | 4.6E-02 | 361 | 1 | 0.96 | 1E-06  | 1.6E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.56E-07  | 0.2557 |
| 194      | 3.33262 | 0.0102 | 3.4E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.91E-07  | 0.1911 |
| 195      | 2.46305 | 0.0102 | 2.5E-02 | 361 | 1 | 0.96 | 1E-06  | 8.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.41E-07  | 0.1412 |
| 196      | 1.84191 | 0.0102 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.06E-07  | 0.1056 |
| 197      | 1.42077 | 0.0102 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.15E-08  | 0.0815 |
| 198      | 1.08702 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.23E-08  | 0.0623 |
| 199      | 0.87584 | 0.0102 | 9.0E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.02E-08  | 0.0502 |
| 200      | 0.72192 | 0.0102 | 7.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.14E-08  | 0.0414 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 201      | 3.24959 | 0.0102 | 3.3E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.86E-07  | 0.1863 |
| 202      | 4.95098 | 0.0102 | 5.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.8E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.84E-07  | 0.2839 |
| 203      | 5.8668  | 0.0102 | 6.0E-02 | 361 | 1 | 0.96 | 1E-06  | 2.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.36E-07  | 0.3364 |
| 204      | 6.38123 | 0.0102 | 6.5E-02 | 361 | 1 | 0.96 | 1E-06  | 2.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.66E-07  | 0.3659 |
| 205      | 5.89622 | 0.0102 | 6.0E-02 | 361 | 1 | 0.96 | 1E-06  | 2.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 3.38E-07  | 0.3381 |
| 206      | 4.88452 | 0.0102 | 5.0E-02 | 361 | 1 | 0.96 | 1E-06  | 1.7E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.80E-07  | 0.2801 |
| 207      | 3.92915 | 0.0102 | 4.0E-02 | 361 | 1 | 0.96 | 1E-06  | 1.4E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.25E-07  | 0.2253 |
| 208      | 3.09747 | 0.0102 | 3.2E-02 | 361 | 1 | 0.96 | 1E-06  | 1.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.78E-07  | 0.1776 |
| 209      | 2.38952 | 0.0102 | 2.4E-02 | 361 | 1 | 0.96 | 1E-06  | 8.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.37E-07  | 0.1370 |
| 210      | 1.86639 | 0.0102 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.07E-07  | 0.1070 |
| 211      | 1.46676 | 0.0102 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.41E-08  | 0.0841 |
| 212      | 1.14687 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.58E-08  | 0.0658 |
| 213      | 0.93847 | 0.0102 | 9.6E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.38E-08  | 0.0538 |
| 214      | 0.74904 | 0.0102 | 7.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.29E-08  | 0.0429 |
| 215      | 0.62804 | 0.0102 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.60E-08  | 0.0360 |
| 216      | 1.51358 | 0.0102 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.68E-08  | 0.0868 |
| 217      | 1.75108 | 0.0102 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06  | 6.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.00E-07  | 0.1004 |
| 218      | 2.40965 | 0.0102 | 2.5E-02 | 361 | 1 | 0.96 | 1E-06  | 8.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.38E-07  | 0.1382 |
| 219      | 3.09162 | 0.0102 | 3.2E-02 | 361 | 1 | 0.96 | 1E-06  | 1.1E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.77E-07  | 0.1773 |
| 220      | 3.64843 | 0.0102 | 3.7E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.09E-07  | 0.2092 |
| 221      | 3.87704 | 0.0102 | 4.0E-02 | 361 | 1 | 0.96 | 1E-06  | 1.4E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.22E-07  | 0.2223 |
| 222      | 3.7245  | 0.0102 | 3.8E-02 | 361 | 1 | 0.96 | 1E-06  | 1.3E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 2.14E-07  | 0.2136 |
| 223      | 3.25928 | 0.0102 | 3.3E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 1.87E-07  | 0.1869 |
| 224      | 2.72345 | 0.0102 | 2.8E-02 | 361 | 1 | 0.96 | 1E-06  | 9.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.56E-07  | 0.1562 |
| 225      | 2.20632 | 0.0102 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 7.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.27E-07  | 0.1265 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 226      | 1.77318 | 0.0102 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06  | 6.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.02E-07  | 0.1017 |
| 227      | 1.44239 | 0.0102 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.27E-08  | 0.0827 |
| 228      | 1.16513 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.68E-08  | 0.0668 |
| 229      | 0.94394 | 0.0102 | 9.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.41E-08  | 0.0541 |
| 230      | 0.77791 | 0.0102 | 8.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.46E-08  | 0.0446 |
| 231      | 0.62195 | 0.0102 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.57E-08  | 0.0357 |
| 232      | 1.05953 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.08E-08  | 0.0608 |
| 233      | 1.11661 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.40E-08  | 0.0640 |
| 234      | 1.47792 | 0.0102 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.47E-08  | 0.0847 |
| 235      | 1.89467 | 0.0102 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.09E-07  | 0.1086 |
| 236      | 2.31891 | 0.0102 | 2.4E-02 | 361 | 1 | 0.96 | 1E-06  | 8.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.33E-07  | 0.1330 |
| 237      | 2.71307 | 0.0102 | 2.8E-02 | 361 | 1 | 0.96 | 1E-06  | 9.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.56E-07  | 0.1556 |
| 238      | 2.76677 | 0.0102 | 2.8E-02 | 361 | 1 | 0.96 | 1E-06  | 9.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.59E-07  | 0.1586 |
| 239      | 2.56931 | 0.0102 | 2.6E-02 | 361 | 1 | 0.96 | 1E-06  | 9.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.47E-07  | 0.1473 |
| 240      | 2.2825  | 0.0102 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 8.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.31E-07  | 0.1309 |
| 241      | 1.93631 | 0.0102 | 2.0E-02 | 361 | 1 | 0.96 | 1E-06  | 6.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.11E-07  | 0.1110 |
| 242      | 1.63045 | 0.0102 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.35E-08  | 0.0935 |
| 243      | 1.35634 | 0.0102 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.78E-08  | 0.0778 |
| 244      | 1.13547 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.51E-08  | 0.0651 |
| 245      | 0.91896 | 0.0102 | 9.4E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.27E-08  | 0.0527 |
| 246      | 0.77965 | 0.0102 | 8.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.47E-08  | 0.0447 |
| 247      | 0.63206 | 0.0102 | 6.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.62E-08  | 0.0362 |
| 248      | 0.86538 | 0.0102 | 8.9E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.96E-08  | 0.0496 |
| 249      | 0.85659 | 0.0102 | 8.8E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.91E-08  | 0.0491 |
| 250      | 1.00342 | 0.0102 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.75E-08  | 0.0575 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 251      | 1.28849 | 0.0102 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.39E-08  | 0.0739 |
| 252      | 1.63636 | 0.0102 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.38E-08  | 0.0938 |
| 253      | 1.90198 | 0.0102 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.09E-07  | 0.1091 |
| 254      | 2.02634 | 0.0102 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.16E-07  | 0.1162 |
| 255      | 2.01179 | 0.0102 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.15E-07  | 0.1154 |
| 256      | 1.88256 | 0.0102 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.08E-07  | 0.1079 |
| 257      | 1.68205 | 0.0102 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 6.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.64E-08  | 0.0964 |
| 258      | 1.46116 | 0.0102 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.38E-08  | 0.0838 |
| 259      | 1.25462 | 0.0102 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.19E-08  | 0.0719 |
| 260      | 1.07567 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.17E-08  | 0.0617 |
| 261      | 0.89369 | 0.0102 | 9.2E-03 | 361 | 1 | 0.96 | 1E-06  | 3.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.12E-08  | 0.0512 |
| 262      | 0.7632  | 0.0102 | 7.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.38E-08  | 0.0438 |
| 263      | 0.63167 | 0.0102 | 6.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.62E-08  | 0.0362 |
| 264      | 0.58009 | 0.0102 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.33E-08  | 0.0333 |
| 265      | 0.56073 | 0.0102 | 5.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.22E-08  | 0.0322 |
| 266      | 0.57902 | 0.0102 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.32E-08  | 0.0332 |
| 267      | 0.66488 | 0.0102 | 6.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.81E-08  | 0.0381 |
| 268      | 0.66061 | 0.0102 | 6.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.79E-08  | 0.0379 |
| 269      | 0.74394 | 0.0102 | 7.6E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.27E-08  | 0.0427 |
| 270      | 0.92034 | 0.0102 | 9.4E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.28E-08  | 0.0528 |
| 271      | 1.1693  | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.70E-08  | 0.0670 |
| 272      | 1.38588 | 0.0102 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.95E-08  | 0.0795 |
| 273      | 1.53028 | 0.0102 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.77E-08  | 0.0877 |
| 274      | 1.58042 | 0.0102 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 9.06E-08  | 0.0906 |
| 275      | 1.5324  | 0.0102 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.79E-08  | 0.0879 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 276      | 1.43091 | 0.0102 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 8.20E-08  | 0.0820 |
| 277      | 1.28867 | 0.0102 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.39E-08  | 0.0739 |
| 278      | 1.14049 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.54E-08  | 0.0654 |
| 279      | 1.0007  | 0.0102 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.74E-08  | 0.0574 |
| 280      | 0.85395 | 0.0102 | 8.8E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.90E-08  | 0.0490 |
| 281      | 0.7216  | 0.0102 | 7.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.14E-08  | 0.0414 |
| 282      | 0.60823 | 0.0102 | 6.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.49E-08  | 0.0349 |
| 283      | 0.46088 | 0.0102 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.64E-08  | 0.0264 |
| 284      | 0.44204 | 0.0102 | 4.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.53E-08  | 0.0253 |
| 285      | 0.43325 | 0.0102 | 4.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.48E-08  | 0.0248 |
| 286      | 0.45841 | 0.0102 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.63E-08  | 0.0263 |
| 287      | 0.52307 | 0.0102 | 5.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.00E-08  | 0.0300 |
| 288      | 0.56987 | 0.0102 | 5.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.27E-08  | 0.0327 |
| 289      | 0.59322 | 0.0102 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.40E-08  | 0.0340 |
| 290      | 0.71744 | 0.0102 | 7.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.11E-08  | 0.0411 |
| 291      | 0.87548 | 0.0102 | 9.0E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.02E-08  | 0.0502 |
| 292      | 1.04219 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.98E-08  | 0.0598 |
| 293      | 1.17605 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.74E-08  | 0.0674 |
| 294      | 1.25313 | 0.0102 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.19E-08  | 0.0719 |
| 295      | 1.25792 | 0.0102 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 7.21E-08  | 0.0721 |
| 296      | 1.21473 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.97E-08  | 0.0697 |
| 297      | 1.13348 | 0.0102 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 6.50E-08  | 0.0650 |
| 298      | 1.02677 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.89E-08  | 0.0589 |
| 299      | 0.91652 | 0.0102 | 9.4E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.26E-08  | 0.0526 |
| 300      | 0.80208 | 0.0102 | 8.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.60E-08  | 0.0460 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 301      | 0.6609  | 0.0102 | 6.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.79E-08  | 0.0379 |
| 302      | 0.58197 | 0.0102 | 6.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.34E-08  | 0.0334 |
| 303      | 0.39159 | 0.0102 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.25E-08  | 0.0225 |
| 304      | 0.35914 | 0.0102 | 3.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.06E-08  | 0.0206 |
| 305      | 0.35529 | 0.0102 | 3.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.04E-08  | 0.0204 |
| 306      | 0.34386 | 0.0102 | 3.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.97E-08  | 0.0197 |
| 307      | 0.35356 | 0.0102 | 3.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.03E-08  | 0.0203 |
| 308      | 0.39073 | 0.0102 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.24E-08  | 0.0224 |
| 309      | 0.44141 | 0.0102 | 4.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.53E-08  | 0.0253 |
| 310      | 0.47846 | 0.0102 | 4.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.74E-08  | 0.0274 |
| 311      | 0.56418 | 0.0102 | 5.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.23E-08  | 0.0323 |
| 312      | 0.67741 | 0.0102 | 6.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.88E-08  | 0.0388 |
| 313      | 0.80426 | 0.0102 | 8.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.61E-08  | 0.0461 |
| 314      | 0.92054 | 0.0102 | 9.4E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.28E-08  | 0.0528 |
| 315      | 1.00261 | 0.0102 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.75E-08  | 0.0575 |
| 316      | 1.03928 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.96E-08  | 0.0596 |
| 317      | 1.02828 | 0.0102 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.90E-08  | 0.0590 |
| 318      | 0.98264 | 0.0102 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.63E-08  | 0.0563 |
| 319      | 0.91474 | 0.0102 | 9.4E-03 | 361 | 1 | 0.96 | 1E-06  | 3.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.24E-08  | 0.0524 |
| 320      | 0.82666 | 0.0102 | 8.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.74E-08  | 0.0474 |
| 321      | 0.74121 | 0.0102 | 7.6E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.25E-08  | 0.0425 |
| 322      | 0.6153  | 0.0102 | 6.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.53E-08  | 0.0353 |
| 323      | 0.55156 | 0.0102 | 5.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.16E-08  | 0.0316 |
| 324      | 0.38105 | 0.0102 | 3.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.18E-08  | 0.0218 |
| 325      | 0.33126 | 0.0102 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.90E-08  | 0.0190 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 326      | 0.32305 | 0.0102 | 3.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.85E-08  | 0.0185 |
| 327      | 0.29252 | 0.0102 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.68E-08  | 0.0168 |
| 328      | 0.29248 | 0.0102 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.68E-08  | 0.0168 |
| 329      | 0.317   | 0.0102 | 3.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.82E-08  | 0.0182 |
| 330      | 0.33066 | 0.0102 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.90E-08  | 0.0190 |
| 331      | 0.35869 | 0.0102 | 3.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.06E-08  | 0.0206 |
| 332      | 0.40288 | 0.0102 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.31E-08  | 0.0231 |
| 333      | 0.4573  | 0.0102 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.62E-08  | 0.0262 |
| 334      | 0.53898 | 0.0102 | 5.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.09E-08  | 0.0309 |
| 335      | 0.63508 | 0.0102 | 6.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.64E-08  | 0.0364 |
| 336      | 0.73114 | 0.0102 | 7.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.19E-08  | 0.0419 |
| 337      | 0.80795 | 0.0102 | 8.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.63E-08  | 0.0463 |
| 338      | 0.85925 | 0.0102 | 8.8E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.93E-08  | 0.0493 |
| 339      | 0.87375 | 0.0102 | 9.0E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 5.01E-08  | 0.0501 |
| 340      | 0.85425 | 0.0102 | 8.8E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.90E-08  | 0.0490 |
| 341      | 0.81269 | 0.0102 | 8.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.66E-08  | 0.0466 |
| 342      | 0.72959 | 0.0102 | 7.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.18E-08  | 0.0418 |
| 343      | 0.67174 | 0.0102 | 6.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.85E-08  | 0.0385 |
| 344      | 0.57305 | 0.0102 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.29E-08  | 0.0329 |
| 345      | 0.51872 | 0.0102 | 5.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.97E-08  | 0.0297 |
| 346      | 0.29019 | 0.0102 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.66E-08  | 0.0166 |
| 347      | 0.27864 | 0.0102 | 2.9E-03 | 361 | 1 | 0.96 | 1E-06  | 9.9E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.60E-08  | 0.0160 |
| 348      | 0.26697 | 0.0102 | 2.7E-03 | 361 | 1 | 0.96 | 1E-06  | 9.5E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.53E-08  | 0.0153 |
| 349      | 0.25326 | 0.0102 | 2.6E-03 | 361 | 1 | 0.96 | 1E-06  | 9.0E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.45E-08  | 0.0145 |
| 350      | 0.25562 | 0.0102 | 2.6E-03 | 361 | 1 | 0.96 | 1E-06  | 9.1E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.47E-08  | 0.0147 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 351      | 0.2724  | 0.0102 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06  | 9.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.56E-08  | 0.0156 |
| 352      | 0.28943 | 0.0102 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.66E-08  | 0.0166 |
| 353      | 0.3067  | 0.0102 | 3.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.76E-08  | 0.0176 |
| 354      | 0.33648 | 0.0102 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.93E-08  | 0.0193 |
| 355      | 0.3689  | 0.0102 | 3.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.12E-08  | 0.0212 |
| 356      | 0.44002 | 0.0102 | 4.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.52E-08  | 0.0252 |
| 357      | 0.51306 | 0.0102 | 5.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.94E-08  | 0.0294 |
| 358      | 0.59206 | 0.0102 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.39E-08  | 0.0339 |
| 359      | 0.66144 | 0.0102 | 6.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.79E-08  | 0.0379 |
| 360      | 0.71417 | 0.0102 | 7.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.09E-08  | 0.0409 |
| 361      | 0.73968 | 0.0102 | 7.6E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.24E-08  | 0.0424 |
| 362      | 0.74345 | 0.0102 | 7.6E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.26E-08  | 0.0426 |
| 363      | 0.71982 | 0.0102 | 7.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 4.13E-08  | 0.0413 |
| 364      | 0.65107 | 0.0102 | 6.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.73E-08  | 0.0373 |
| 365      | 0.60983 | 0.0102 | 6.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.50E-08  | 0.0350 |
| 366      | 0.53056 | 0.0102 | 5.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.04E-08  | 0.0304 |
| 367      | 0.48574 | 0.0102 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.79E-08  | 0.0279 |
| 368      | 0.25159 | 0.0102 | 2.6E-03 | 361 | 1 | 0.96 | 1E-06  | 8.9E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.44E-08  | 0.0144 |
| 369      | 0.24678 | 0.0102 | 2.5E-03 | 361 | 1 | 0.96 | 1E-06  | 8.8E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.41E-08  | 0.0141 |
| 370      | 0.23335 | 0.0102 | 2.4E-03 | 361 | 1 | 0.96 | 1E-06  | 8.3E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.34E-08  | 0.0134 |
| 371      | 0.21774 | 0.0102 | 2.2E-03 | 361 | 1 | 0.96 | 1E-06  | 7.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.25E-08  | 0.0125 |
| 372      | 0.22662 | 0.0102 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 8.0E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.30E-08  | 0.0130 |
| 373      | 0.22108 | 0.0102 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 7.8E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.27E-08  | 0.0127 |
| 374      | 0.24111 | 0.0102 | 2.5E-03 | 361 | 1 | 0.96 | 1E-06  | 8.6E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.38E-08  | 0.0138 |
| 375      | 0.25062 | 0.0102 | 2.6E-03 | 361 | 1 | 0.96 | 1E-06  | 8.9E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.44E-08  | 0.0144 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 376      | 0.27425 | 0.0102 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06  | 9.7E-07 | 1.1 | 10  | 0.10 | 70 | 1   | 1.57E-08  | 0.0157 |
| 377      | 0.29662 | 0.0102 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.70E-08  | 0.0170 |
| 378      | 0.31582 | 0.0102 | 3.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 1.81E-08  | 0.0181 |
| 379      | 0.36484 | 0.0102 | 3.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.09E-08  | 0.0209 |
| 380      | 0.40393 | 0.0102 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.32E-08  | 0.0232 |
| 381      | 0.48601 | 0.0102 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.79E-08  | 0.0279 |
| 382      | 0.5477  | 0.0102 | 5.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.14E-08  | 0.0314 |
| 383      | 0.59749 | 0.0102 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.43E-08  | 0.0343 |
| 384      | 0.62971 | 0.0102 | 6.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.61E-08  | 0.0361 |
| 385      | 0.64012 | 0.0102 | 6.6E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.67E-08  | 0.0367 |
| 386      | 0.62903 | 0.0102 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.61E-08  | 0.0361 |
| 387      | 0.5807  | 0.0102 | 6.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.33E-08  | 0.0333 |
| 388      | 0.55072 | 0.0102 | 5.6E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 3.16E-08  | 0.0316 |
| 389      | 0.49043 | 0.0102 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.81E-08  | 0.0281 |
| 390      | 0.45288 | 0.0102 | 4.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 2.60E-08  | 0.0260 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 1.46E-03 | 5   | 2.92E-04 | 1.75E-02 |
| 2  | 1.37E-03 | 5   | 2.74E-04 |          |
| 3  | 1.25E-03 | 5   | 2.50E-04 |          |
| 4  | 1.16E-03 | 5   | 2.32E-04 |          |
| 5  | 1.06E-03 | 5   | 2.12E-04 |          |
| 6  | 9.83E-04 | 5   | 1.97E-04 |          |
| 7  | 1.86E-03 | 5   | 3.71E-04 |          |
| 8  | 1.70E-03 | 5   | 3.40E-04 |          |
| 9  | 1.49E-03 | 5   | 2.98E-04 |          |
| 10 | 1.39E-03 | 5   | 2.78E-04 |          |
| 11 | 1.22E-03 | 5   | 2.44E-04 |          |
| 12 | 1.15E-03 | 5   | 2.29E-04 |          |
| 13 | 1.08E-03 | 5   | 2.16E-04 |          |
| 14 | 2.04E-03 | 5   | 4.08E-04 |          |
| 15 | 1.90E-03 | 5   | 3.80E-04 |          |
| 16 | 1.71E-03 | 5   | 3.41E-04 |          |
| 17 | 1.50E-03 | 5   | 3.00E-04 |          |
| 18 | 1.37E-03 | 5   | 2.73E-04 |          |
| 19 | 1.25E-03 | 5   | 2.49E-04 |          |
| 20 | 1.16E-03 | 5   | 2.32E-04 |          |
| 21 | 4.49E-03 | 5   | 8.98E-04 |          |
| 22 | 5.14E-03 | 5   | 1.03E-03 |          |
| 23 | 5.52E-03 | 5   | 1.10E-03 |          |
| 24 | 5.64E-03 | 5   | 1.13E-03 |          |
| 25 | 6.26E-03 | 5   | 1.25E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 6.10E-03    | 5          | 1.22E-03  |
| 27       | 5.62E-03    | 5          | 1.12E-03  |
| 28       | 4.99E-03    | 5          | 9.98E-04  |
| 29       | 4.23E-03    | 5          | 8.45E-04  |
| 30       | 2.77E-03    | 5          | 5.55E-04  |
| 31       | 2.56E-03    | 5          | 5.12E-04  |
| 32       | 2.09E-03    | 5          | 4.18E-04  |
| 33       | 1.98E-03    | 5          | 3.97E-04  |
| 34       | 1.65E-03    | 5          | 3.29E-04  |
| 35       | 1.52E-03    | 5          | 3.04E-04  |
| 36       | 1.36E-03    | 5          | 2.72E-04  |
| 37       | 1.29E-03    | 5          | 2.57E-04  |
| 38       | 6.05E-03    | 5          | 1.21E-03  |
| 39       | 5.48E-03    | 5          | 1.10E-03  |
| 40       | 5.87E-03    | 5          | 1.17E-03  |
| 41       | 6.00E-03    | 5          | 1.20E-03  |
| 42       | 6.32E-03    | 5          | 1.26E-03  |
| 43       | 6.54E-03    | 5          | 1.31E-03  |
| 44       | 6.22E-03    | 5          | 1.24E-03  |
| 45       | 5.50E-03    | 5          | 1.10E-03  |
| 46       | 4.71E-03    | 5          | 9.42E-04  |
| 47       | 4.28E-03    | 5          | 8.56E-04  |
| 48       | 3.38E-03    | 5          | 6.75E-04  |
| 49       | 2.92E-03    | 5          | 5.85E-04  |
| 50       | 2.64E-03    | 5          | 5.29E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 2.37E-03    | 5          | 4.74E-04  |
| 52       | 1.89E-03    | 5          | 3.78E-04  |
| 53       | 1.67E-03    | 5          | 3.34E-04  |
| 54       | 1.53E-03    | 5          | 3.06E-04  |
| 55       | 1.56E-03    | 5          | 3.12E-04  |
| 56       | 5.72E-03    | 5          | 1.14E-03  |
| 57       | 5.83E-03    | 5          | 1.17E-03  |
| 58       | 6.03E-03    | 5          | 1.21E-03  |
| 59       | 7.00E-03    | 5          | 1.40E-03  |
| 60       | 7.10E-03    | 5          | 1.42E-03  |
| 61       | 7.55E-03    | 5          | 1.51E-03  |
| 62       | 7.40E-03    | 5          | 1.48E-03  |
| 63       | 6.42E-03    | 5          | 1.28E-03  |
| 64       | 5.79E-03    | 5          | 1.16E-03  |
| 65       | 4.75E-03    | 5          | 9.49E-04  |
| 66       | 4.79E-03    | 5          | 9.58E-04  |
| 67       | 3.37E-03    | 5          | 6.74E-04  |
| 68       | 3.00E-03    | 5          | 6.00E-04  |
| 69       | 2.77E-03    | 5          | 5.55E-04  |
| 70       | 2.68E-03    | 5          | 5.35E-04  |
| 71       | 2.09E-03    | 5          | 4.19E-04  |
| 72       | 1.95E-03    | 5          | 3.91E-04  |
| 73       | 2.26E-03    | 5          | 4.51E-04  |
| 74       | 6.42E-03    | 5          | 1.28E-03  |
| 75       | 6.67E-03    | 5          | 1.33E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 6.71E-03    | 5          | 1.34E-03  |
| 77       | 7.55E-03    | 5          | 1.51E-03  |
| 78       | 8.68E-03    | 5          | 1.74E-03  |
| 79       | 9.11E-03    | 5          | 1.82E-03  |
| 80       | 9.27E-03    | 5          | 1.85E-03  |
| 81       | 8.47E-03    | 5          | 1.69E-03  |
| 82       | 7.26E-03    | 5          | 1.45E-03  |
| 83       | 6.11E-03    | 5          | 1.22E-03  |
| 84       | 6.97E-03    | 5          | 1.39E-03  |
| 85       | 3.55E-03    | 5          | 7.09E-04  |
| 86       | 3.23E-03    | 5          | 6.46E-04  |
| 87       | 3.09E-03    | 5          | 6.19E-04  |
| 88       | 2.93E-03    | 5          | 5.86E-04  |
| 89       | 2.76E-03    | 5          | 5.53E-04  |
| 90       | 2.64E-03    | 5          | 5.28E-04  |
| 91       | 7.85E-03    | 5          | 1.57E-03  |
| 92       | 8.02E-03    | 5          | 1.60E-03  |
| 93       | 9.17E-03    | 5          | 1.83E-03  |
| 94       | 9.71E-03    | 5          | 1.94E-03  |
| 95       | 1.07E-02    | 5          | 2.13E-03  |
| 96       | 1.15E-02    | 5          | 2.30E-03  |
| 97       | 1.07E-02    | 5          | 2.14E-03  |
| 98       | 9.25E-03    | 5          | 1.85E-03  |
| 99       | 9.04E-03    | 5          | 1.81E-03  |
| 100      | 4.52E-03    | 5          | 9.04E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 3.77E-03 | 5   | 7.54E-04 |
| 102           | 3.53E-03 | 5   | 7.06E-04 |
| 103           | 3.36E-03 | 5   | 6.72E-04 |
| 104           | 3.13E-03 | 5   | 6.27E-04 |
| 105           | 2.83E-03 | 5   | 5.65E-04 |
| 106           | 8.29E-03 | 5   | 1.66E-03 |
| 107           | 8.57E-03 | 5   | 1.71E-03 |
| 108           | 9.68E-03 | 5   | 1.94E-03 |
| 109           | 1.01E-02 | 5   | 2.02E-03 |
| 110           | 1.16E-02 | 5   | 2.32E-03 |
| 111           | 1.34E-02 | 5   | 2.68E-03 |
| 112           | 1.45E-02 | 5   | 2.90E-03 |
| 113           | 1.46E-02 | 5   | 2.91E-03 |
| 114           | 1.39E-02 | 5   | 2.79E-03 |
| 115           | 4.19E-03 | 5   | 8.39E-04 |
| 116           | 4.04E-03 | 5   | 8.08E-04 |
| 117           | 3.93E-03 | 5   | 7.85E-04 |
| 118           | 3.44E-03 | 5   | 6.87E-04 |
| 119           | 2.92E-03 | 5   | 5.84E-04 |
| 120           | 9.53E-03 | 5   | 1.91E-03 |
| 121           | 8.87E-03 | 5   | 1.77E-03 |
| 122           | 1.01E-02 | 5   | 2.02E-03 |
| 123           | 1.20E-02 | 5   | 2.40E-03 |
| 124           | 1.42E-02 | 5   | 2.84E-03 |
| 125           | 1.62E-02 | 5   | 3.24E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 126      | 2.02E-02 | 5   | 4.04E-03 |
| 127      | 2.41E-02 | 5   | 4.82E-03 |
| 128      | 6.73E-03 | 5   | 1.35E-03 |
| 129      | 5.65E-03 | 5   | 1.13E-03 |
| 130      | 4.78E-03 | 5   | 9.55E-04 |
| 131      | 3.90E-03 | 5   | 7.79E-04 |
| 132      | 2.68E-03 | 5   | 5.35E-04 |
| 133      | 8.73E-03 | 5   | 1.75E-03 |
| 134      | 1.10E-02 | 5   | 2.21E-03 |
| 135      | 1.39E-02 | 5   | 2.78E-03 |
| 136      | 1.61E-02 | 5   | 3.23E-03 |
| 137      | 1.98E-02 | 5   | 3.96E-03 |
| 138      | 2.78E-02 | 5   | 5.56E-03 |
| 139      | 5.86E-02 | 5   | 1.17E-02 |
| 140      | 6.87E-03 | 5   | 1.37E-03 |
| 141      | 5.42E-03 | 5   | 1.08E-03 |
| 142      | 4.48E-03 | 5   | 8.96E-04 |
| 143      | 3.00E-03 | 5   | 5.99E-04 |
| 144      | 1.29E-02 | 5   | 2.57E-03 |
| 145      | 1.69E-02 | 5   | 3.39E-03 |
| 146      | 2.03E-02 | 5   | 4.07E-03 |
| 147      | 2.71E-02 | 5   | 5.42E-03 |
| 148      | 3.99E-02 | 5   | 7.98E-03 |
| 149      | 3.60E-02 | 5   | 7.20E-03 |
| 150      | 2.09E-02 | 5   | 4.17E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 1.54E-02 | 5   | 3.08E-03 |
| 152           | 1.25E-02 | 5   | 2.51E-03 |
| 153           | 7.28E-03 | 5   | 1.46E-03 |
| 154           | 5.95E-03 | 5   | 1.19E-03 |
| 155           | 4.85E-03 | 5   | 9.69E-04 |
| 156           | 4.14E-03 | 5   | 8.27E-04 |
| 157           | 3.43E-02 | 5   | 6.85E-03 |
| 158           | 3.86E-02 | 5   | 7.71E-03 |
| 159           | 4.65E-02 | 5   | 9.31E-03 |
| 160           | 2.59E-02 | 5   | 5.18E-03 |
| 161           | 1.69E-02 | 5   | 3.38E-03 |
| 162           | 1.25E-02 | 5   | 2.49E-03 |
| 163           | 5.99E-03 | 5   | 1.20E-03 |
| 164           | 5.25E-03 | 5   | 1.05E-03 |
| 165           | 4.41E-03 | 5   | 8.81E-04 |
| 166           | 5.48E-02 | 5   | 1.10E-02 |
| 167           | 3.01E-02 | 5   | 6.02E-03 |
| 168           | 2.07E-02 | 5   | 4.13E-03 |
| 169           | 1.46E-02 | 5   | 2.92E-03 |
| 170           | 1.11E-02 | 5   | 2.22E-03 |
| 171           | 6.99E-03 | 5   | 1.40E-03 |
| 172           | 5.29E-03 | 5   | 1.06E-03 |
| 173           | 4.38E-03 | 5   | 8.77E-04 |
| 174           | 8.77E-02 | 5   | 1.75E-02 |
| 175           | 5.53E-02 | 5   | 1.11E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 3.42E-02 | 5   | 6.83E-03 |
| 177           | 2.32E-02 | 5   | 4.64E-03 |
| 178           | 1.64E-02 | 5   | 3.27E-03 |
| 179           | 1.19E-02 | 5   | 2.37E-03 |
| 180           | 9.16E-03 | 5   | 1.83E-03 |
| 181           | 6.36E-03 | 5   | 1.27E-03 |
| 182           | 5.19E-03 | 5   | 1.04E-03 |
| 183           | 7.33E-02 | 5   | 1.47E-02 |
| 184           | 5.19E-02 | 5   | 1.04E-02 |
| 185           | 3.62E-02 | 5   | 7.23E-03 |
| 186           | 2.47E-02 | 5   | 4.95E-03 |
| 187           | 1.81E-02 | 5   | 3.62E-03 |
| 188           | 1.34E-02 | 5   | 2.68E-03 |
| 189           | 1.04E-02 | 5   | 2.07E-03 |
| 190           | 8.24E-03 | 5   | 1.65E-03 |
| 191           | 8.53E-02 | 5   | 1.71E-02 |
| 192           | 6.17E-02 | 5   | 1.23E-02 |
| 193           | 4.57E-02 | 5   | 9.14E-03 |
| 194           | 3.42E-02 | 5   | 6.83E-03 |
| 195           | 2.52E-02 | 5   | 5.05E-03 |
| 196           | 1.89E-02 | 5   | 3.78E-03 |
| 197           | 1.46E-02 | 5   | 2.91E-03 |
| 198           | 1.11E-02 | 5   | 2.23E-03 |
| 199           | 8.98E-03 | 5   | 1.80E-03 |
| 200           | 7.40E-03 | 5   | 1.48E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 201      | 3.33E-02 | 5   | 6.66E-03 |
| 202      | 5.07E-02 | 5   | 1.01E-02 |
| 203      | 6.01E-02 | 5   | 1.20E-02 |
| 204      | 6.54E-02 | 5   | 1.31E-02 |
| 205      | 6.04E-02 | 5   | 1.21E-02 |
| 206      | 5.01E-02 | 5   | 1.00E-02 |
| 207      | 4.03E-02 | 5   | 8.05E-03 |
| 208      | 3.17E-02 | 5   | 6.35E-03 |
| 209      | 2.45E-02 | 5   | 4.90E-03 |
| 210      | 1.91E-02 | 5   | 3.83E-03 |
| 211      | 1.50E-02 | 5   | 3.01E-03 |
| 212      | 1.18E-02 | 5   | 2.35E-03 |
| 213      | 9.62E-03 | 5   | 1.92E-03 |
| 214      | 7.68E-03 | 5   | 1.54E-03 |
| 215      | 6.44E-03 | 5   | 1.29E-03 |
| 216      | 1.55E-02 | 5   | 3.10E-03 |
| 217      | 1.79E-02 | 5   | 3.59E-03 |
| 218      | 2.47E-02 | 5   | 4.94E-03 |
| 219      | 3.17E-02 | 5   | 6.34E-03 |
| 220      | 3.74E-02 | 5   | 7.48E-03 |
| 221      | 3.97E-02 | 5   | 7.95E-03 |
| 222      | 3.82E-02 | 5   | 7.63E-03 |
| 223      | 3.34E-02 | 5   | 6.68E-03 |
| 224      | 2.79E-02 | 5   | 5.58E-03 |
| 225      | 2.26E-02 | 5   | 4.52E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 226      | 1.82E-02 | 5   | 3.63E-03 |
| 227      | 1.48E-02 | 5   | 2.96E-03 |
| 228      | 1.19E-02 | 5   | 2.39E-03 |
| 229      | 9.67E-03 | 5   | 1.93E-03 |
| 230      | 7.97E-03 | 5   | 1.59E-03 |
| 231      | 6.37E-03 | 5   | 1.27E-03 |
| 232      | 1.09E-02 | 5   | 2.17E-03 |
| 233      | 1.14E-02 | 5   | 2.29E-03 |
| 234      | 1.51E-02 | 5   | 3.03E-03 |
| 235      | 1.94E-02 | 5   | 3.88E-03 |
| 236      | 2.38E-02 | 5   | 4.75E-03 |
| 237      | 2.78E-02 | 5   | 5.56E-03 |
| 238      | 2.84E-02 | 5   | 5.67E-03 |
| 239      | 2.63E-02 | 5   | 5.27E-03 |
| 240      | 2.34E-02 | 5   | 4.68E-03 |
| 241      | 1.98E-02 | 5   | 3.97E-03 |
| 242      | 1.67E-02 | 5   | 3.34E-03 |
| 243      | 1.39E-02 | 5   | 2.78E-03 |
| 244      | 1.16E-02 | 5   | 2.33E-03 |
| 245      | 9.42E-03 | 5   | 1.88E-03 |
| 246      | 7.99E-03 | 5   | 1.60E-03 |
| 247      | 6.48E-03 | 5   | 1.30E-03 |
| 248      | 8.87E-03 | 5   | 1.77E-03 |
| 249      | 8.78E-03 | 5   | 1.76E-03 |
| 250      | 1.03E-02 | 5   | 2.06E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 1.32E-02 | 5   | 2.64E-03 |
| 252           | 1.68E-02 | 5   | 3.35E-03 |
| 253           | 1.95E-02 | 5   | 3.90E-03 |
| 254           | 2.08E-02 | 5   | 4.15E-03 |
| 255           | 2.06E-02 | 5   | 4.12E-03 |
| 256           | 1.93E-02 | 5   | 3.86E-03 |
| 257           | 1.72E-02 | 5   | 3.45E-03 |
| 258           | 1.50E-02 | 5   | 2.99E-03 |
| 259           | 1.29E-02 | 5   | 2.57E-03 |
| 260           | 1.10E-02 | 5   | 2.20E-03 |
| 261           | 9.16E-03 | 5   | 1.83E-03 |
| 262           | 7.82E-03 | 5   | 1.56E-03 |
| 263           | 6.47E-03 | 5   | 1.29E-03 |
| 264           | 5.94E-03 | 5   | 1.19E-03 |
| 265           | 5.75E-03 | 5   | 1.15E-03 |
| 266           | 5.93E-03 | 5   | 1.19E-03 |
| 267           | 6.81E-03 | 5   | 1.36E-03 |
| 268           | 6.77E-03 | 5   | 1.35E-03 |
| 269           | 7.62E-03 | 5   | 1.52E-03 |
| 270           | 9.43E-03 | 5   | 1.89E-03 |
| 271           | 1.20E-02 | 5   | 2.40E-03 |
| 272           | 1.42E-02 | 5   | 2.84E-03 |
| 273           | 1.57E-02 | 5   | 3.14E-03 |
| 274           | 1.62E-02 | 5   | 3.24E-03 |
| 275           | 1.57E-02 | 5   | 3.14E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 276      | 1.47E-02 | 5   | 2.93E-03 |
| 277      | 1.32E-02 | 5   | 2.64E-03 |
| 278      | 1.17E-02 | 5   | 2.34E-03 |
| 279      | 1.03E-02 | 5   | 2.05E-03 |
| 280      | 8.75E-03 | 5   | 1.75E-03 |
| 281      | 7.39E-03 | 5   | 1.48E-03 |
| 282      | 6.23E-03 | 5   | 1.25E-03 |
| 283      | 4.72E-03 | 5   | 9.45E-04 |
| 284      | 4.53E-03 | 5   | 9.06E-04 |
| 285      | 4.44E-03 | 5   | 8.88E-04 |
| 286      | 4.70E-03 | 5   | 9.40E-04 |
| 287      | 5.36E-03 | 5   | 1.07E-03 |
| 288      | 5.84E-03 | 5   | 1.17E-03 |
| 289      | 6.08E-03 | 5   | 1.22E-03 |
| 290      | 7.35E-03 | 5   | 1.47E-03 |
| 291      | 8.97E-03 | 5   | 1.79E-03 |
| 292      | 1.07E-02 | 5   | 2.14E-03 |
| 293      | 1.21E-02 | 5   | 2.41E-03 |
| 294      | 1.28E-02 | 5   | 2.57E-03 |
| 295      | 1.29E-02 | 5   | 2.58E-03 |
| 296      | 1.24E-02 | 5   | 2.49E-03 |
| 297      | 1.16E-02 | 5   | 2.32E-03 |
| 298      | 1.05E-02 | 5   | 2.10E-03 |
| 299      | 9.39E-03 | 5   | 1.88E-03 |
| 300      | 8.22E-03 | 5   | 1.64E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 6.77E-03 | 5   | 1.35E-03 |
| 302           | 5.96E-03 | 5   | 1.19E-03 |
| 303           | 4.01E-03 | 5   | 8.03E-04 |
| 304           | 3.68E-03 | 5   | 7.36E-04 |
| 305           | 3.64E-03 | 5   | 7.28E-04 |
| 306           | 3.52E-03 | 5   | 7.05E-04 |
| 307           | 3.62E-03 | 5   | 7.25E-04 |
| 308           | 4.00E-03 | 5   | 8.01E-04 |
| 309           | 4.52E-03 | 5   | 9.05E-04 |
| 310           | 4.90E-03 | 5   | 9.81E-04 |
| 311           | 5.78E-03 | 5   | 1.16E-03 |
| 312           | 6.94E-03 | 5   | 1.39E-03 |
| 313           | 8.24E-03 | 5   | 1.65E-03 |
| 314           | 9.43E-03 | 5   | 1.89E-03 |
| 315           | 1.03E-02 | 5   | 2.05E-03 |
| 316           | 1.07E-02 | 5   | 2.13E-03 |
| 317           | 1.05E-02 | 5   | 2.11E-03 |
| 318           | 1.01E-02 | 5   | 2.01E-03 |
| 319           | 9.37E-03 | 5   | 1.87E-03 |
| 320           | 8.47E-03 | 5   | 1.69E-03 |
| 321           | 7.60E-03 | 5   | 1.52E-03 |
| 322           | 6.31E-03 | 5   | 1.26E-03 |
| 323           | 5.65E-03 | 5   | 1.13E-03 |
| 324           | 3.90E-03 | 5   | 7.81E-04 |
| 325           | 3.39E-03 | 5   | 6.79E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 326           | 3.31E-03 | 5   | 6.62E-04 |
| 327           | 3.00E-03 | 5   | 6.00E-04 |
| 328           | 3.00E-03 | 5   | 5.99E-04 |
| 329           | 3.25E-03 | 5   | 6.50E-04 |
| 330           | 3.39E-03 | 5   | 6.78E-04 |
| 331           | 3.68E-03 | 5   | 7.35E-04 |
| 332           | 4.13E-03 | 5   | 8.26E-04 |
| 333           | 4.69E-03 | 5   | 9.37E-04 |
| 334           | 5.52E-03 | 5   | 1.10E-03 |
| 335           | 6.51E-03 | 5   | 1.30E-03 |
| 336           | 7.49E-03 | 5   | 1.50E-03 |
| 337           | 8.28E-03 | 5   | 1.66E-03 |
| 338           | 8.81E-03 | 5   | 1.76E-03 |
| 339           | 8.95E-03 | 5   | 1.79E-03 |
| 340           | 8.75E-03 | 5   | 1.75E-03 |
| 341           | 8.33E-03 | 5   | 1.67E-03 |
| 342           | 7.48E-03 | 5   | 1.50E-03 |
| 343           | 6.88E-03 | 5   | 1.38E-03 |
| 344           | 5.87E-03 | 5   | 1.17E-03 |
| 345           | 5.32E-03 | 5   | 1.06E-03 |
| 346           | 2.97E-03 | 5   | 5.95E-04 |
| 347           | 2.86E-03 | 5   | 5.71E-04 |
| 348           | 2.74E-03 | 5   | 5.47E-04 |
| 349           | 2.60E-03 | 5   | 5.19E-04 |
| 350           | 2.62E-03 | 5   | 5.24E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 2.79E-03 | 5   | 5.58E-04 |
| 352           | 2.97E-03 | 5   | 5.93E-04 |
| 353           | 3.14E-03 | 5   | 6.29E-04 |
| 354           | 3.45E-03 | 5   | 6.90E-04 |
| 355           | 3.78E-03 | 5   | 7.56E-04 |
| 356           | 4.51E-03 | 5   | 9.02E-04 |
| 357           | 5.26E-03 | 5   | 1.05E-03 |
| 358           | 6.07E-03 | 5   | 1.21E-03 |
| 359           | 6.78E-03 | 5   | 1.36E-03 |
| 360           | 7.32E-03 | 5   | 1.46E-03 |
| 361           | 7.58E-03 | 5   | 1.52E-03 |
| 362           | 7.62E-03 | 5   | 1.52E-03 |
| 363           | 7.38E-03 | 5   | 1.48E-03 |
| 364           | 6.67E-03 | 5   | 1.33E-03 |
| 365           | 6.25E-03 | 5   | 1.25E-03 |
| 366           | 5.44E-03 | 5   | 1.09E-03 |
| 367           | 4.98E-03 | 5   | 9.96E-04 |
| 368           | 2.58E-03 | 5   | 5.16E-04 |
| 369           | 2.53E-03 | 5   | 5.06E-04 |
| 370           | 2.39E-03 | 5   | 4.78E-04 |
| 371           | 2.23E-03 | 5   | 4.46E-04 |
| 372           | 2.32E-03 | 5   | 4.64E-04 |
| 373           | 2.27E-03 | 5   | 4.53E-04 |
| 374           | 2.47E-03 | 5   | 4.94E-04 |
| 375           | 2.57E-03 | 5   | 5.14E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 2.81E-03    | 5          | 5.62E-04  |
| 377      | 3.04E-03    | 5          | 6.08E-04  |
| 378      | 3.24E-03    | 5          | 6.47E-04  |
| 379      | 3.74E-03    | 5          | 7.48E-04  |
| 380      | 4.14E-03    | 5          | 8.28E-04  |
| 381      | 4.98E-03    | 5          | 9.96E-04  |
| 382      | 5.61E-03    | 5          | 1.12E-03  |
| 383      | 6.12E-03    | 5          | 1.22E-03  |
| 384      | 6.45E-03    | 5          | 1.29E-03  |
| 385      | 6.56E-03    | 5          | 1.31E-03  |
| 386      | 6.45E-03    | 5          | 1.29E-03  |
| 387      | 5.95E-03    | 5          | 1.19E-03  |
| 388      | 5.64E-03    | 5          | 1.13E-03  |
| 389      | 5.03E-03    | 5          | 1.01E-03  |
| 390      | 4.64E-03    | 5          | 9.28E-04  |



**Risk Calculations - 3rd Trimester Start  
Construction Phase 2B**

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor | Consta  |        |         |     |   |      |       |         |     |     |      |    |     |           | (Risk / |
|----------|---------|--------|---------|-----|---|------|-------|---------|-----|-----|------|----|-----|-----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1   | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)   |
| 1        | 0.14257 | 0.0069 | 9.9E-04 | 361 | 1 | 0.96 | 1E-06 | 3.4E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 5.37E-10  | 0.0005  |
| 2        | 0.13369 | 0.0069 | 9.3E-04 | 361 | 1 | 0.96 | 1E-06 | 3.2E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 5.03E-10  | 0.0005  |
| 3        | 0.12214 | 0.0069 | 8.5E-04 | 361 | 1 | 0.96 | 1E-06 | 2.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 4.60E-10  | 0.0005  |
| 4        | 0.11318 | 0.0069 | 7.8E-04 | 361 | 1 | 0.96 | 1E-06 | 2.7E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 4.26E-10  | 0.0004  |
| 5        | 0.10329 | 0.0069 | 7.1E-04 | 361 | 1 | 0.96 | 1E-06 | 2.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 3.89E-10  | 0.0004  |
| 6        | 0.0959  | 0.0069 | 6.6E-04 | 361 | 1 | 0.96 | 1E-06 | 2.3E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 3.61E-10  | 0.0004  |
| 7        | 0.18122 | 0.0069 | 1.3E-03 | 361 | 1 | 0.96 | 1E-06 | 4.3E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 6.82E-10  | 0.0007  |
| 8        | 0.16599 | 0.0069 | 1.1E-03 | 361 | 1 | 0.96 | 1E-06 | 4.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 6.25E-10  | 0.0006  |
| 9        | 0.14564 | 0.0069 | 1.0E-03 | 361 | 1 | 0.96 | 1E-06 | 3.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 5.48E-10  | 0.0005  |
| 10       | 0.13566 | 0.0069 | 9.4E-04 | 361 | 1 | 0.96 | 1E-06 | 3.3E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 5.11E-10  | 0.0005  |
| 11       | 0.11905 | 0.0069 | 8.2E-04 | 361 | 1 | 0.96 | 1E-06 | 2.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 4.48E-10  | 0.0004  |
| 12       | 0.11174 | 0.0069 | 7.7E-04 | 361 | 1 | 0.96 | 1E-06 | 2.7E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 4.21E-10  | 0.0004  |
| 13       | 0.10516 | 0.0069 | 7.3E-04 | 361 | 1 | 0.96 | 1E-06 | 2.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 3.96E-10  | 0.0004  |
| 14       | 0.19891 | 0.0069 | 1.4E-03 | 361 | 1 | 0.96 | 1E-06 | 4.8E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 7.49E-10  | 0.0007  |
| 15       | 0.18538 | 0.0069 | 1.3E-03 | 361 | 1 | 0.96 | 1E-06 | 4.4E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 6.98E-10  | 0.0007  |
| 16       | 0.16647 | 0.0069 | 1.2E-03 | 361 | 1 | 0.96 | 1E-06 | 4.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 6.27E-10  | 0.0006  |
| 17       | 0.14661 | 0.0069 | 1.0E-03 | 361 | 1 | 0.96 | 1E-06 | 3.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 5.52E-10  | 0.0006  |
| 18       | 0.13322 | 0.0069 | 9.2E-04 | 361 | 1 | 0.96 | 1E-06 | 3.2E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 5.02E-10  | 0.0005  |
| 19       | 0.12149 | 0.0069 | 8.4E-04 | 361 | 1 | 0.96 | 1E-06 | 2.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 4.57E-10  | 0.0005  |
| 20       | 0.11331 | 0.0069 | 7.8E-04 | 361 | 1 | 0.96 | 1E-06 | 2.7E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 4.27E-10  | 0.0004  |
| 21       | 0.43801 | 0.0069 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06 | 1.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.65E-09  | 0.0016  |
| 22       | 0.5016  | 0.0069 | 3.5E-03 | 361 | 1 | 0.96 | 1E-06 | 1.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.89E-09  | 0.0019  |
| 23       | 0.53845 | 0.0069 | 3.7E-03 | 361 | 1 | 0.96 | 1E-06 | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.03E-09  | 0.0020  |
| 24       | 0.55059 | 0.0069 | 3.8E-03 | 361 | 1 | 0.96 | 1E-06 | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.07E-09  | 0.0021  |
| 25       | 0.61064 | 0.0069 | 4.2E-03 | 361 | 1 | 0.96 | 1E-06 | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.30E-09  | 0.0023  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     |           | (Risk / |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)   |
| 26       | 0.59517 | 0.0069 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.24E-09  | 0.0022  |
| 27       | 0.54814 | 0.0069 | 3.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.06E-09  | 0.0021  |
| 28       | 0.48705 | 0.0069 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.83E-09  | 0.0018  |
| 29       | 0.41251 | 0.0069 | 2.9E-03 | 361 | 1 | 0.96 | 1E-06  | 9.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.55E-09  | 0.0016  |
| 30       | 0.27062 | 0.0069 | 1.9E-03 | 361 | 1 | 0.96 | 1E-06  | 6.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.02E-09  | 0.0010  |
| 31       | 0.24985 | 0.0069 | 1.7E-03 | 361 | 1 | 0.96 | 1E-06  | 6.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 9.41E-10  | 0.0009  |
| 32       | 0.20383 | 0.0069 | 1.4E-03 | 361 | 1 | 0.96 | 1E-06  | 4.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 7.67E-10  | 0.0008  |
| 33       | 0.19347 | 0.0069 | 1.3E-03 | 361 | 1 | 0.96 | 1E-06  | 4.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 7.28E-10  | 0.0007  |
| 34       | 0.16069 | 0.0069 | 1.1E-03 | 361 | 1 | 0.96 | 1E-06  | 3.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 6.05E-10  | 0.0006  |
| 35       | 0.14853 | 0.0069 | 1.0E-03 | 361 | 1 | 0.96 | 1E-06  | 3.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 5.59E-10  | 0.0006  |
| 36       | 0.1328  | 0.0069 | 9.2E-04 | 361 | 1 | 0.96 | 1E-06  | 3.2E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 5.00E-10  | 0.0005  |
| 37       | 0.12553 | 0.0069 | 8.7E-04 | 361 | 1 | 0.96 | 1E-06  | 3.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 4.73E-10  | 0.0005  |
| 38       | 0.59038 | 0.0069 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.22E-09  | 0.0022  |
| 39       | 0.53496 | 0.0069 | 3.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.01E-09  | 0.0020  |
| 40       | 0.57248 | 0.0069 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.16E-09  | 0.0022  |
| 41       | 0.58509 | 0.0069 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.20E-09  | 0.0022  |
| 42       | 0.61645 | 0.0069 | 4.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.32E-09  | 0.0023  |
| 43       | 0.63781 | 0.0069 | 4.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.40E-09  | 0.0024  |
| 44       | 0.60659 | 0.0069 | 4.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.28E-09  | 0.0023  |
| 45       | 0.53649 | 0.0069 | 3.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.02E-09  | 0.0020  |
| 46       | 0.4596  | 0.0069 | 3.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.73E-09  | 0.0017  |
| 47       | 0.41777 | 0.0069 | 2.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.57E-09  | 0.0016  |
| 48       | 0.3294  | 0.0069 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 7.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.24E-09  | 0.0012  |
| 49       | 0.28523 | 0.0069 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06  | 6.8E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.07E-09  | 0.0011  |
| 50       | 0.25804 | 0.0069 | 1.8E-03 | 361 | 1 | 0.96 | 1E-06  | 6.2E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 9.72E-10  | 0.0010  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     |           | (Risk / |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)   |
| 51       | 0.23121 | 0.0069 | 1.6E-03 | 361 | 1 | 0.96 | 1E-06  | 5.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 8.71E-10  | 0.0009  |
| 52       | 0.18436 | 0.0069 | 1.3E-03 | 361 | 1 | 0.96 | 1E-06  | 4.4E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 6.94E-10  | 0.0007  |
| 53       | 0.16289 | 0.0069 | 1.1E-03 | 361 | 1 | 0.96 | 1E-06  | 3.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 6.13E-10  | 0.0006  |
| 54       | 0.14939 | 0.0069 | 1.0E-03 | 361 | 1 | 0.96 | 1E-06  | 3.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 5.62E-10  | 0.0006  |
| 55       | 0.15235 | 0.0069 | 1.1E-03 | 361 | 1 | 0.96 | 1E-06  | 3.7E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 5.74E-10  | 0.0006  |
| 56       | 0.55797 | 0.0069 | 3.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.10E-09  | 0.0021  |
| 57       | 0.56885 | 0.0069 | 3.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.14E-09  | 0.0021  |
| 58       | 0.58821 | 0.0069 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.21E-09  | 0.0022  |
| 59       | 0.68345 | 0.0069 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.57E-09  | 0.0026  |
| 60       | 0.69254 | 0.0069 | 4.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.61E-09  | 0.0026  |
| 61       | 0.73699 | 0.0069 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.77E-09  | 0.0028  |
| 62       | 0.72167 | 0.0069 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.72E-09  | 0.0027  |
| 63       | 0.62652 | 0.0069 | 4.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.36E-09  | 0.0024  |
| 64       | 0.56525 | 0.0069 | 3.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.13E-09  | 0.0021  |
| 65       | 0.46307 | 0.0069 | 3.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.74E-09  | 0.0017  |
| 66       | 0.46763 | 0.0069 | 3.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.76E-09  | 0.0018  |
| 67       | 0.32884 | 0.0069 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 7.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.24E-09  | 0.0012  |
| 68       | 0.29277 | 0.0069 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06  | 7.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.10E-09  | 0.0011  |
| 69       | 0.27065 | 0.0069 | 1.9E-03 | 361 | 1 | 0.96 | 1E-06  | 6.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.02E-09  | 0.0010  |
| 70       | 0.26125 | 0.0069 | 1.8E-03 | 361 | 1 | 0.96 | 1E-06  | 6.3E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 9.84E-10  | 0.0010  |
| 71       | 0.20425 | 0.0069 | 1.4E-03 | 361 | 1 | 0.96 | 1E-06  | 4.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 7.69E-10  | 0.0008  |
| 72       | 0.1906  | 0.0069 | 1.3E-03 | 361 | 1 | 0.96 | 1E-06  | 4.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 7.18E-10  | 0.0007  |
| 73       | 0.22012 | 0.0069 | 1.5E-03 | 361 | 1 | 0.96 | 1E-06  | 5.3E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 8.29E-10  | 0.0008  |
| 74       | 0.62675 | 0.0069 | 4.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.36E-09  | 0.0024  |
| 75       | 0.65056 | 0.0069 | 4.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.45E-09  | 0.0024  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor | Consta  |        |         |     |   |      |       |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|-------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1   | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 76       | 0.65456 | 0.0069 | 4.5E-03 | 361 | 1 | 0.96 | 1E-06 | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.46E-09  | 0.0025 |
| 77       | 0.73638 | 0.0069 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06 | 1.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.77E-09  | 0.0028 |
| 78       | 0.8471  | 0.0069 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06 | 2.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.19E-09  | 0.0032 |
| 79       | 0.88849 | 0.0069 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06 | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.35E-09  | 0.0033 |
| 80       | 0.90496 | 0.0069 | 6.3E-03 | 361 | 1 | 0.96 | 1E-06 | 2.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.41E-09  | 0.0034 |
| 81       | 0.82607 | 0.0069 | 5.7E-03 | 361 | 1 | 0.96 | 1E-06 | 2.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.11E-09  | 0.0031 |
| 82       | 0.70876 | 0.0069 | 4.9E-03 | 361 | 1 | 0.96 | 1E-06 | 1.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.67E-09  | 0.0027 |
| 83       | 0.59652 | 0.0069 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06 | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.25E-09  | 0.0022 |
| 84       | 0.67997 | 0.0069 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06 | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.56E-09  | 0.0026 |
| 85       | 0.34615 | 0.0069 | 2.4E-03 | 361 | 1 | 0.96 | 1E-06 | 8.3E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.30E-09  | 0.0013 |
| 86       | 0.31525 | 0.0069 | 2.2E-03 | 361 | 1 | 0.96 | 1E-06 | 7.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.19E-09  | 0.0012 |
| 87       | 0.30195 | 0.0069 | 2.1E-03 | 361 | 1 | 0.96 | 1E-06 | 7.2E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.14E-09  | 0.0011 |
| 88       | 0.28593 | 0.0069 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06 | 6.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.08E-09  | 0.0011 |
| 89       | 0.2696  | 0.0069 | 1.9E-03 | 361 | 1 | 0.96 | 1E-06 | 6.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.02E-09  | 0.0010 |
| 90       | 0.25777 | 0.0069 | 1.8E-03 | 361 | 1 | 0.96 | 1E-06 | 6.2E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 9.71E-10  | 0.0010 |
| 91       | 0.7657  | 0.0069 | 5.3E-03 | 361 | 1 | 0.96 | 1E-06 | 1.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.88E-09  | 0.0029 |
| 92       | 0.78216 | 0.0069 | 5.4E-03 | 361 | 1 | 0.96 | 1E-06 | 1.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.94E-09  | 0.0029 |
| 93       | 0.89506 | 0.0069 | 6.2E-03 | 361 | 1 | 0.96 | 1E-06 | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.37E-09  | 0.0034 |
| 94       | 0.94714 | 0.0069 | 6.6E-03 | 361 | 1 | 0.96 | 1E-06 | 2.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.57E-09  | 0.0036 |
| 95       | 1.04003 | 0.0069 | 7.2E-03 | 361 | 1 | 0.96 | 1E-06 | 2.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.92E-09  | 0.0039 |
| 96       | 1.12421 | 0.0069 | 7.8E-03 | 361 | 1 | 0.96 | 1E-06 | 2.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.23E-09  | 0.0042 |
| 97       | 1.04229 | 0.0069 | 7.2E-03 | 361 | 1 | 0.96 | 1E-06 | 2.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.92E-09  | 0.0039 |
| 98       | 0.90305 | 0.0069 | 6.3E-03 | 361 | 1 | 0.96 | 1E-06 | 2.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.40E-09  | 0.0034 |
| 99       | 0.88258 | 0.0069 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06 | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.32E-09  | 0.0033 |
| 100      | 0.44117 | 0.0069 | 3.1E-03 | 361 | 1 | 0.96 | 1E-06 | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.66E-09  | 0.0017 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 101      | 0.36795 | 0.0069 | 2.5E-03 | 361 | 1 | 0.96 | 1E-06  | 8.8E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.39E-09  | 0.0014 |
| 102      | 0.34454 | 0.0069 | 2.4E-03 | 361 | 1 | 0.96 | 1E-06  | 8.3E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.30E-09  | 0.0013 |
| 103      | 0.32801 | 0.0069 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 7.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.23E-09  | 0.0012 |
| 104      | 0.30575 | 0.0069 | 2.1E-03 | 361 | 1 | 0.96 | 1E-06  | 7.3E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.15E-09  | 0.0012 |
| 105      | 0.27575 | 0.0069 | 1.9E-03 | 361 | 1 | 0.96 | 1E-06  | 6.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.04E-09  | 0.0010 |
| 106      | 0.80913 | 0.0069 | 5.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.05E-09  | 0.0030 |
| 107      | 0.83667 | 0.0069 | 5.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.15E-09  | 0.0032 |
| 108      | 0.94434 | 0.0069 | 6.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.56E-09  | 0.0036 |
| 109      | 0.98691 | 0.0069 | 6.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.72E-09  | 0.0037 |
| 110      | 1.13153 | 0.0069 | 7.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.26E-09  | 0.0043 |
| 111      | 1.3058  | 0.0069 | 9.0E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.92E-09  | 0.0049 |
| 112      | 1.41351 | 0.0069 | 9.8E-03 | 361 | 1 | 0.96 | 1E-06  | 3.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.32E-09  | 0.0053 |
| 113      | 1.42196 | 0.0069 | 9.8E-03 | 361 | 1 | 0.96 | 1E-06  | 3.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.35E-09  | 0.0054 |
| 114      | 1.36036 | 0.0069 | 9.4E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.12E-09  | 0.0051 |
| 115      | 0.40925 | 0.0069 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06  | 9.8E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.54E-09  | 0.0015 |
| 116      | 0.39445 | 0.0069 | 2.7E-03 | 361 | 1 | 0.96 | 1E-06  | 9.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.49E-09  | 0.0015 |
| 117      | 0.38313 | 0.0069 | 2.7E-03 | 361 | 1 | 0.96 | 1E-06  | 9.2E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.44E-09  | 0.0014 |
| 118      | 0.33537 | 0.0069 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 8.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.26E-09  | 0.0013 |
| 119      | 0.28473 | 0.0069 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06  | 6.8E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.07E-09  | 0.0011 |
| 120      | 0.92954 | 0.0069 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.50E-09  | 0.0035 |
| 121      | 0.86551 | 0.0069 | 6.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.26E-09  | 0.0033 |
| 122      | 0.98739 | 0.0069 | 6.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.72E-09  | 0.0037 |
| 123      | 1.16933 | 0.0069 | 8.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.40E-09  | 0.0044 |
| 124      | 1.386   | 0.0069 | 9.6E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.22E-09  | 0.0052 |
| 125      | 1.58316 | 0.0069 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.96E-09  | 0.0060 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor | Consta  |        |         |     |   |      |       |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|-------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1   | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 126      | 1.96907 | 0.0069 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06 | 4.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.41E-09  | 0.0074 |
| 127      | 2.35262 | 0.0069 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06 | 5.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 8.86E-09  | 0.0089 |
| 128      | 0.65638 | 0.0069 | 4.5E-03 | 361 | 1 | 0.96 | 1E-06 | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.47E-09  | 0.0025 |
| 129      | 0.55176 | 0.0069 | 3.8E-03 | 361 | 1 | 0.96 | 1E-06 | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.08E-09  | 0.0021 |
| 130      | 0.46604 | 0.0069 | 3.2E-03 | 361 | 1 | 0.96 | 1E-06 | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.75E-09  | 0.0018 |
| 131      | 0.38018 | 0.0069 | 2.6E-03 | 361 | 1 | 0.96 | 1E-06 | 9.1E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.43E-09  | 0.0014 |
| 132      | 0.26126 | 0.0069 | 1.8E-03 | 361 | 1 | 0.96 | 1E-06 | 6.3E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 9.84E-10  | 0.0010 |
| 133      | 0.85154 | 0.0069 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06 | 2.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.21E-09  | 0.0032 |
| 134      | 1.07595 | 0.0069 | 7.4E-03 | 361 | 1 | 0.96 | 1E-06 | 2.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.05E-09  | 0.0041 |
| 135      | 1.3543  | 0.0069 | 9.4E-03 | 361 | 1 | 0.96 | 1E-06 | 3.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.10E-09  | 0.0051 |
| 136      | 1.57548 | 0.0069 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06 | 3.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.93E-09  | 0.0059 |
| 137      | 1.93144 | 0.0069 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06 | 4.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.27E-09  | 0.0073 |
| 138      | 2.71283 | 0.0069 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06 | 6.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.02E-08  | 0.0102 |
| 139      | 5.71455 | 0.0069 | 4.0E-02 | 361 | 1 | 0.96 | 1E-06 | 1.4E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 2.15E-08  | 0.0215 |
| 140      | 0.67028 | 0.0069 | 4.6E-03 | 361 | 1 | 0.96 | 1E-06 | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.52E-09  | 0.0025 |
| 141      | 0.52905 | 0.0069 | 3.7E-03 | 361 | 1 | 0.96 | 1E-06 | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.99E-09  | 0.0020 |
| 142      | 0.43694 | 0.0069 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06 | 1.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.65E-09  | 0.0016 |
| 143      | 0.29239 | 0.0069 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06 | 7.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.10E-09  | 0.0011 |
| 144      | 1.25505 | 0.0069 | 8.7E-03 | 361 | 1 | 0.96 | 1E-06 | 3.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.73E-09  | 0.0047 |
| 145      | 1.65273 | 0.0069 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06 | 4.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 6.22E-09  | 0.0062 |
| 146      | 1.98418 | 0.0069 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06 | 4.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.47E-09  | 0.0075 |
| 147      | 2.64664 | 0.0069 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06 | 6.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 9.96E-09  | 0.0100 |
| 148      | 3.89148 | 0.0069 | 2.7E-02 | 361 | 1 | 0.96 | 1E-06 | 9.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.47E-08  | 0.0147 |
| 149      | 3.51153 | 0.0069 | 2.4E-02 | 361 | 1 | 0.96 | 1E-06 | 8.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.32E-08  | 0.0132 |
| 150      | 2.03503 | 0.0069 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06 | 4.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.66E-09  | 0.0077 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor | Consta  |        |         |     |   |      |       |         |     |     |      |    |     | (Risk /         |
|----------|---------|--------|---------|-----|---|------|-------|---------|-----|-----|------|----|-----|-----------------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1   | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) Mill) |
| 151      | 1.50481 | 0.0069 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06 | 3.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.67E-09 0.0057 |
| 152      | 1.22329 | 0.0069 | 8.5E-03 | 361 | 1 | 0.96 | 1E-06 | 2.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.61E-09 0.0046 |
| 153      | 0.70991 | 0.0069 | 4.9E-03 | 361 | 1 | 0.96 | 1E-06 | 1.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.67E-09 0.0027 |
| 154      | 0.58106 | 0.0069 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06 | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.19E-09 0.0022 |
| 155      | 0.47279 | 0.0069 | 3.3E-03 | 361 | 1 | 0.96 | 1E-06 | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.78E-09 0.0018 |
| 156      | 0.40353 | 0.0069 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06 | 9.7E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.52E-09 0.0015 |
| 157      | 3.34251 | 0.0069 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06 | 8.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.26E-08 0.0126 |
| 158      | 3.76257 | 0.0069 | 2.6E-02 | 361 | 1 | 0.96 | 1E-06 | 9.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.42E-08 0.0142 |
| 159      | 4.54045 | 0.0069 | 3.1E-02 | 361 | 1 | 0.96 | 1E-06 | 1.1E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 1.71E-08 0.0171 |
| 160      | 2.52972 | 0.0069 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06 | 6.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 9.52E-09 0.0095 |
| 161      | 1.65138 | 0.0069 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06 | 4.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 6.22E-09 0.0062 |
| 162      | 1.21511 | 0.0069 | 8.4E-03 | 361 | 1 | 0.96 | 1E-06 | 2.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.58E-09 0.0046 |
| 163      | 0.58478 | 0.0069 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06 | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.20E-09 0.0022 |
| 164      | 0.51231 | 0.0069 | 3.5E-03 | 361 | 1 | 0.96 | 1E-06 | 1.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.93E-09 0.0019 |
| 165      | 0.43002 | 0.0069 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06 | 1.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.62E-09 0.0016 |
| 166      | 5.34751 | 0.0069 | 3.7E-02 | 361 | 1 | 0.96 | 1E-06 | 1.3E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 2.01E-08 0.0201 |
| 167      | 2.93781 | 0.0069 | 2.0E-02 | 361 | 1 | 0.96 | 1E-06 | 7.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.11E-08 0.0111 |
| 168      | 2.01593 | 0.0069 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06 | 4.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.59E-09 0.0076 |
| 169      | 1.42521 | 0.0069 | 9.9E-03 | 361 | 1 | 0.96 | 1E-06 | 3.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.37E-09 0.0054 |
| 170      | 1.08462 | 0.0069 | 7.5E-03 | 361 | 1 | 0.96 | 1E-06 | 2.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.08E-09 0.0041 |
| 171      | 0.68161 | 0.0069 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06 | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.57E-09 0.0026 |
| 172      | 0.51579 | 0.0069 | 3.6E-03 | 361 | 1 | 0.96 | 1E-06 | 1.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.94E-09 0.0019 |
| 173      | 0.42776 | 0.0069 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06 | 1.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.61E-09 0.0016 |
| 174      | 8.55485 | 0.0069 | 5.9E-02 | 361 | 1 | 0.96 | 1E-06 | 2.0E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 3.22E-08 0.0322 |
| 175      | 5.40053 | 0.0069 | 3.7E-02 | 361 | 1 | 0.96 | 1E-06 | 1.3E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 2.03E-08 0.0203 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 176      | 3.33391 | 0.0069 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 8.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.26E-08  | 0.0126 |
| 177      | 2.2635  | 0.0069 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 8.52E-09  | 0.0085 |
| 178      | 1.59628 | 0.0069 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 6.01E-09  | 0.0060 |
| 179      | 1.15673 | 0.0069 | 8.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.36E-09  | 0.0044 |
| 180      | 0.89425 | 0.0069 | 6.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.37E-09  | 0.0034 |
| 181      | 0.62061 | 0.0069 | 4.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.34E-09  | 0.0023 |
| 182      | 0.50601 | 0.0069 | 3.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.91E-09  | 0.0019 |
| 183      | 7.15077 | 0.0069 | 4.9E-02 | 361 | 1 | 0.96 | 1E-06  | 1.7E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 2.69E-08  | 0.0269 |
| 184      | 5.06388 | 0.0069 | 3.5E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 1.91E-08  | 0.0191 |
| 185      | 3.52857 | 0.0069 | 2.4E-02 | 361 | 1 | 0.96 | 1E-06  | 8.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.33E-08  | 0.0133 |
| 186      | 2.41297 | 0.0069 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 9.09E-09  | 0.0091 |
| 187      | 1.76478 | 0.0069 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 6.64E-09  | 0.0066 |
| 188      | 1.30975 | 0.0069 | 9.1E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.93E-09  | 0.0049 |
| 189      | 1.01047 | 0.0069 | 7.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.80E-09  | 0.0038 |
| 190      | 0.80384 | 0.0069 | 5.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.03E-09  | 0.0030 |
| 191      | 8.32687 | 0.0069 | 5.8E-02 | 361 | 1 | 0.96 | 1E-06  | 2.0E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 3.14E-08  | 0.0314 |
| 192      | 6.02533 | 0.0069 | 4.2E-02 | 361 | 1 | 0.96 | 1E-06  | 1.4E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 2.27E-08  | 0.0227 |
| 193      | 4.45973 | 0.0069 | 3.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.1E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 1.68E-08  | 0.0168 |
| 194      | 3.33262 | 0.0069 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 8.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.25E-08  | 0.0125 |
| 195      | 2.46305 | 0.0069 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 9.27E-09  | 0.0093 |
| 196      | 1.84191 | 0.0069 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 6.93E-09  | 0.0069 |
| 197      | 1.42077 | 0.0069 | 9.8E-03 | 361 | 1 | 0.96 | 1E-06  | 3.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.35E-09  | 0.0053 |
| 198      | 1.08702 | 0.0069 | 7.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.09E-09  | 0.0041 |
| 199      | 0.87584 | 0.0069 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.30E-09  | 0.0033 |
| 200      | 0.72192 | 0.0069 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.72E-09  | 0.0027 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 201      | 3.24959 | 0.0069 | 2.2E-02 | 361 | 1 | 0.96 | 1E-06  | 7.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.22E-08  | 0.0122 |
| 202      | 4.95098 | 0.0069 | 3.4E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 1.86E-08  | 0.0186 |
| 203      | 5.8668  | 0.0069 | 4.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.4E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 2.21E-08  | 0.0221 |
| 204      | 6.38123 | 0.0069 | 4.4E-02 | 361 | 1 | 0.96 | 1E-06  | 1.5E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 2.40E-08  | 0.0240 |
| 205      | 5.89622 | 0.0069 | 4.1E-02 | 361 | 1 | 0.96 | 1E-06  | 1.4E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 2.22E-08  | 0.0222 |
| 206      | 4.88452 | 0.0069 | 3.4E-02 | 361 | 1 | 0.96 | 1E-06  | 1.2E-05 | 1.1 | 10  | 0.01 | 70 | 1   | 1.84E-08  | 0.0184 |
| 207      | 3.92915 | 0.0069 | 2.7E-02 | 361 | 1 | 0.96 | 1E-06  | 9.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.48E-08  | 0.0148 |
| 208      | 3.09747 | 0.0069 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.17E-08  | 0.0117 |
| 209      | 2.38952 | 0.0069 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 9.00E-09  | 0.0090 |
| 210      | 1.86639 | 0.0069 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.03E-09  | 0.0070 |
| 211      | 1.46676 | 0.0069 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.52E-09  | 0.0055 |
| 212      | 1.14687 | 0.0069 | 7.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.32E-09  | 0.0043 |
| 213      | 0.93847 | 0.0069 | 6.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.53E-09  | 0.0035 |
| 214      | 0.74904 | 0.0069 | 5.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.82E-09  | 0.0028 |
| 215      | 0.62804 | 0.0069 | 4.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.36E-09  | 0.0024 |
| 216      | 1.51358 | 0.0069 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.70E-09  | 0.0057 |
| 217      | 1.75108 | 0.0069 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 6.59E-09  | 0.0066 |
| 218      | 2.40965 | 0.0069 | 1.7E-02 | 361 | 1 | 0.96 | 1E-06  | 5.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 9.07E-09  | 0.0091 |
| 219      | 3.09162 | 0.0069 | 2.1E-02 | 361 | 1 | 0.96 | 1E-06  | 7.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.16E-08  | 0.0116 |
| 220      | 3.64843 | 0.0069 | 2.5E-02 | 361 | 1 | 0.96 | 1E-06  | 8.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.37E-08  | 0.0137 |
| 221      | 3.87704 | 0.0069 | 2.7E-02 | 361 | 1 | 0.96 | 1E-06  | 9.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.46E-08  | 0.0146 |
| 222      | 3.7245  | 0.0069 | 2.6E-02 | 361 | 1 | 0.96 | 1E-06  | 8.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.40E-08  | 0.0140 |
| 223      | 3.25928 | 0.0069 | 2.3E-02 | 361 | 1 | 0.96 | 1E-06  | 7.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.23E-08  | 0.0123 |
| 224      | 2.72345 | 0.0069 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.03E-08  | 0.0103 |
| 225      | 2.20632 | 0.0069 | 1.5E-02 | 361 | 1 | 0.96 | 1E-06  | 5.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 8.31E-09  | 0.0083 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 226      | 1.77318 | 0.0069 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 6.68E-09  | 0.0067 |
| 227      | 1.44239 | 0.0069 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.43E-09  | 0.0054 |
| 228      | 1.16513 | 0.0069 | 8.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.39E-09  | 0.0044 |
| 229      | 0.94394 | 0.0069 | 6.5E-03 | 361 | 1 | 0.96 | 1E-06  | 2.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.55E-09  | 0.0036 |
| 230      | 0.77791 | 0.0069 | 5.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.93E-09  | 0.0029 |
| 231      | 0.62195 | 0.0069 | 4.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.34E-09  | 0.0023 |
| 232      | 1.05953 | 0.0069 | 7.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.99E-09  | 0.0040 |
| 233      | 1.11661 | 0.0069 | 7.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.20E-09  | 0.0042 |
| 234      | 1.47792 | 0.0069 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.56E-09  | 0.0056 |
| 235      | 1.89467 | 0.0069 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.13E-09  | 0.0071 |
| 236      | 2.31891 | 0.0069 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 8.73E-09  | 0.0087 |
| 237      | 2.71307 | 0.0069 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.02E-08  | 0.0102 |
| 238      | 2.76677 | 0.0069 | 1.9E-02 | 361 | 1 | 0.96 | 1E-06  | 6.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.04E-08  | 0.0104 |
| 239      | 2.56931 | 0.0069 | 1.8E-02 | 361 | 1 | 0.96 | 1E-06  | 6.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 9.67E-09  | 0.0097 |
| 240      | 2.2825  | 0.0069 | 1.6E-02 | 361 | 1 | 0.96 | 1E-06  | 5.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 8.59E-09  | 0.0086 |
| 241      | 1.93631 | 0.0069 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.29E-09  | 0.0073 |
| 242      | 1.63045 | 0.0069 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 6.14E-09  | 0.0061 |
| 243      | 1.35634 | 0.0069 | 9.4E-03 | 361 | 1 | 0.96 | 1E-06  | 3.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.11E-09  | 0.0051 |
| 244      | 1.13547 | 0.0069 | 7.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.28E-09  | 0.0043 |
| 245      | 0.91896 | 0.0069 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.46E-09  | 0.0035 |
| 246      | 0.77965 | 0.0069 | 5.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.94E-09  | 0.0029 |
| 247      | 0.63206 | 0.0069 | 4.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.38E-09  | 0.0024 |
| 248      | 0.86538 | 0.0069 | 6.0E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.26E-09  | 0.0033 |
| 249      | 0.85659 | 0.0069 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.23E-09  | 0.0032 |
| 250      | 1.00342 | 0.0069 | 6.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.78E-09  | 0.0038 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 251      | 1.28849 | 0.0069 | 8.9E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.85E-09  | 0.0049 |
| 252      | 1.63636 | 0.0069 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 6.16E-09  | 0.0062 |
| 253      | 1.90198 | 0.0069 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.16E-09  | 0.0072 |
| 254      | 2.02634 | 0.0069 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.63E-09  | 0.0076 |
| 255      | 2.01179 | 0.0069 | 1.4E-02 | 361 | 1 | 0.96 | 1E-06  | 4.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.57E-09  | 0.0076 |
| 256      | 1.88256 | 0.0069 | 1.3E-02 | 361 | 1 | 0.96 | 1E-06  | 4.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 7.09E-09  | 0.0071 |
| 257      | 1.68205 | 0.0069 | 1.2E-02 | 361 | 1 | 0.96 | 1E-06  | 4.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 6.33E-09  | 0.0063 |
| 258      | 1.46116 | 0.0069 | 1.0E-02 | 361 | 1 | 0.96 | 1E-06  | 3.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.50E-09  | 0.0055 |
| 259      | 1.25462 | 0.0069 | 8.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.72E-09  | 0.0047 |
| 260      | 1.07567 | 0.0069 | 7.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.05E-09  | 0.0041 |
| 261      | 0.89369 | 0.0069 | 6.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.36E-09  | 0.0034 |
| 262      | 0.7632  | 0.0069 | 5.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.87E-09  | 0.0029 |
| 263      | 0.63167 | 0.0069 | 4.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.38E-09  | 0.0024 |
| 264      | 0.58009 | 0.0069 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.18E-09  | 0.0022 |
| 265      | 0.56073 | 0.0069 | 3.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.11E-09  | 0.0021 |
| 266      | 0.57902 | 0.0069 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.18E-09  | 0.0022 |
| 267      | 0.66488 | 0.0069 | 4.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.50E-09  | 0.0025 |
| 268      | 0.66061 | 0.0069 | 4.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.49E-09  | 0.0025 |
| 269      | 0.74394 | 0.0069 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.80E-09  | 0.0028 |
| 270      | 0.92034 | 0.0069 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.47E-09  | 0.0035 |
| 271      | 1.1693  | 0.0069 | 8.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.40E-09  | 0.0044 |
| 272      | 1.38588 | 0.0069 | 9.6E-03 | 361 | 1 | 0.96 | 1E-06  | 3.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.22E-09  | 0.0052 |
| 273      | 1.53028 | 0.0069 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.76E-09  | 0.0058 |
| 274      | 1.58042 | 0.0069 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.95E-09  | 0.0060 |
| 275      | 1.5324  | 0.0069 | 1.1E-02 | 361 | 1 | 0.96 | 1E-06  | 3.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.77E-09  | 0.0058 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     |           | (Risk / |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)   |
| 276      | 1.43091 | 0.0069 | 9.9E-03 | 361 | 1 | 0.96 | 1E-06  | 3.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 5.39E-09  | 0.0054  |
| 277      | 1.28867 | 0.0069 | 8.9E-03 | 361 | 1 | 0.96 | 1E-06  | 3.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.85E-09  | 0.0049  |
| 278      | 1.14049 | 0.0069 | 7.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.29E-09  | 0.0043  |
| 279      | 1.0007  | 0.0069 | 6.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.77E-09  | 0.0038  |
| 280      | 0.85395 | 0.0069 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.22E-09  | 0.0032  |
| 281      | 0.7216  | 0.0069 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.72E-09  | 0.0027  |
| 282      | 0.60823 | 0.0069 | 4.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.29E-09  | 0.0023  |
| 283      | 0.46088 | 0.0069 | 3.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.74E-09  | 0.0017  |
| 284      | 0.44204 | 0.0069 | 3.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.66E-09  | 0.0017  |
| 285      | 0.43325 | 0.0069 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.63E-09  | 0.0016  |
| 286      | 0.45841 | 0.0069 | 3.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.73E-09  | 0.0017  |
| 287      | 0.52307 | 0.0069 | 3.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.97E-09  | 0.0020  |
| 288      | 0.56987 | 0.0069 | 3.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.15E-09  | 0.0021  |
| 289      | 0.59322 | 0.0069 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.23E-09  | 0.0022  |
| 290      | 0.71744 | 0.0069 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.70E-09  | 0.0027  |
| 291      | 0.87548 | 0.0069 | 6.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.30E-09  | 0.0033  |
| 292      | 1.04219 | 0.0069 | 7.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.92E-09  | 0.0039  |
| 293      | 1.17605 | 0.0069 | 8.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.43E-09  | 0.0044  |
| 294      | 1.25313 | 0.0069 | 8.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.72E-09  | 0.0047  |
| 295      | 1.25792 | 0.0069 | 8.7E-03 | 361 | 1 | 0.96 | 1E-06  | 3.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.74E-09  | 0.0047  |
| 296      | 1.21473 | 0.0069 | 8.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.57E-09  | 0.0046  |
| 297      | 1.13348 | 0.0069 | 7.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 4.27E-09  | 0.0043  |
| 298      | 1.02677 | 0.0069 | 7.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.87E-09  | 0.0039  |
| 299      | 0.91652 | 0.0069 | 6.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.45E-09  | 0.0035  |
| 300      | 0.80208 | 0.0069 | 5.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.02E-09  | 0.0030  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 301      | 0.6609  | 0.0069 | 4.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.49E-09  | 0.0025 |
| 302      | 0.58197 | 0.0069 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.19E-09  | 0.0022 |
| 303      | 0.39159 | 0.0069 | 2.7E-03 | 361 | 1 | 0.96 | 1E-06  | 9.4E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.47E-09  | 0.0015 |
| 304      | 0.35914 | 0.0069 | 2.5E-03 | 361 | 1 | 0.96 | 1E-06  | 8.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.35E-09  | 0.0014 |
| 305      | 0.35529 | 0.0069 | 2.5E-03 | 361 | 1 | 0.96 | 1E-06  | 8.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.34E-09  | 0.0013 |
| 306      | 0.34386 | 0.0069 | 2.4E-03 | 361 | 1 | 0.96 | 1E-06  | 8.2E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.29E-09  | 0.0013 |
| 307      | 0.35356 | 0.0069 | 2.4E-03 | 361 | 1 | 0.96 | 1E-06  | 8.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.33E-09  | 0.0013 |
| 308      | 0.39073 | 0.0069 | 2.7E-03 | 361 | 1 | 0.96 | 1E-06  | 9.4E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.47E-09  | 0.0015 |
| 309      | 0.44141 | 0.0069 | 3.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.66E-09  | 0.0017 |
| 310      | 0.47846 | 0.0069 | 3.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.80E-09  | 0.0018 |
| 311      | 0.56418 | 0.0069 | 3.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.12E-09  | 0.0021 |
| 312      | 0.67741 | 0.0069 | 4.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.55E-09  | 0.0026 |
| 313      | 0.80426 | 0.0069 | 5.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.03E-09  | 0.0030 |
| 314      | 0.92054 | 0.0069 | 6.4E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.47E-09  | 0.0035 |
| 315      | 1.00261 | 0.0069 | 6.9E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.77E-09  | 0.0038 |
| 316      | 1.03928 | 0.0069 | 7.2E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.91E-09  | 0.0039 |
| 317      | 1.02828 | 0.0069 | 7.1E-03 | 361 | 1 | 0.96 | 1E-06  | 2.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.87E-09  | 0.0039 |
| 318      | 0.98264 | 0.0069 | 6.8E-03 | 361 | 1 | 0.96 | 1E-06  | 2.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.70E-09  | 0.0037 |
| 319      | 0.91474 | 0.0069 | 6.3E-03 | 361 | 1 | 0.96 | 1E-06  | 2.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.44E-09  | 0.0034 |
| 320      | 0.82666 | 0.0069 | 5.7E-03 | 361 | 1 | 0.96 | 1E-06  | 2.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.11E-09  | 0.0031 |
| 321      | 0.74121 | 0.0069 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.79E-09  | 0.0028 |
| 322      | 0.6153  | 0.0069 | 4.3E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.32E-09  | 0.0023 |
| 323      | 0.55156 | 0.0069 | 3.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.08E-09  | 0.0021 |
| 324      | 0.38105 | 0.0069 | 2.6E-03 | 361 | 1 | 0.96 | 1E-06  | 9.1E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.43E-09  | 0.0014 |
| 325      | 0.33126 | 0.0069 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 7.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.25E-09  | 0.0012 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor | Consta  |        |         |     |   |      |       |         |     |     |      |    |     |           | (Risk / |
|----------|---------|--------|---------|-----|---|------|-------|---------|-----|-----|------|----|-----|-----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1   | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)   |
| 326      | 0.32305 | 0.0069 | 2.2E-03 | 361 | 1 | 0.96 | 1E-06 | 7.7E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.22E-09  | 0.0012  |
| 327      | 0.29252 | 0.0069 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06 | 7.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.10E-09  | 0.0011  |
| 328      | 0.29248 | 0.0069 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06 | 7.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.10E-09  | 0.0011  |
| 329      | 0.317   | 0.0069 | 2.2E-03 | 361 | 1 | 0.96 | 1E-06 | 7.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.19E-09  | 0.0012  |
| 330      | 0.33066 | 0.0069 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06 | 7.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.24E-09  | 0.0012  |
| 331      | 0.35869 | 0.0069 | 2.5E-03 | 361 | 1 | 0.96 | 1E-06 | 8.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.35E-09  | 0.0014  |
| 332      | 0.40288 | 0.0069 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06 | 9.7E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.52E-09  | 0.0015  |
| 333      | 0.4573  | 0.0069 | 3.2E-03 | 361 | 1 | 0.96 | 1E-06 | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.72E-09  | 0.0017  |
| 334      | 0.53898 | 0.0069 | 3.7E-03 | 361 | 1 | 0.96 | 1E-06 | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.03E-09  | 0.0020  |
| 335      | 0.63508 | 0.0069 | 4.4E-03 | 361 | 1 | 0.96 | 1E-06 | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.39E-09  | 0.0024  |
| 336      | 0.73114 | 0.0069 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06 | 1.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.75E-09  | 0.0028  |
| 337      | 0.80795 | 0.0069 | 5.6E-03 | 361 | 1 | 0.96 | 1E-06 | 1.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.04E-09  | 0.0030  |
| 338      | 0.85925 | 0.0069 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06 | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.24E-09  | 0.0032  |
| 339      | 0.87375 | 0.0069 | 6.0E-03 | 361 | 1 | 0.96 | 1E-06 | 2.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.29E-09  | 0.0033  |
| 340      | 0.85425 | 0.0069 | 5.9E-03 | 361 | 1 | 0.96 | 1E-06 | 2.0E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.22E-09  | 0.0032  |
| 341      | 0.81269 | 0.0069 | 5.6E-03 | 361 | 1 | 0.96 | 1E-06 | 1.9E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 3.06E-09  | 0.0031  |
| 342      | 0.72959 | 0.0069 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06 | 1.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.75E-09  | 0.0027  |
| 343      | 0.67174 | 0.0069 | 4.6E-03 | 361 | 1 | 0.96 | 1E-06 | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.53E-09  | 0.0025  |
| 344      | 0.57305 | 0.0069 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06 | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.16E-09  | 0.0022  |
| 345      | 0.51872 | 0.0069 | 3.6E-03 | 361 | 1 | 0.96 | 1E-06 | 1.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.95E-09  | 0.0020  |
| 346      | 0.29019 | 0.0069 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06 | 7.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.09E-09  | 0.0011  |
| 347      | 0.27864 | 0.0069 | 1.9E-03 | 361 | 1 | 0.96 | 1E-06 | 6.7E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.05E-09  | 0.0010  |
| 348      | 0.26697 | 0.0069 | 1.8E-03 | 361 | 1 | 0.96 | 1E-06 | 6.4E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.01E-09  | 0.0010  |
| 349      | 0.25326 | 0.0069 | 1.8E-03 | 361 | 1 | 0.96 | 1E-06 | 6.1E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 9.54E-10  | 0.0010  |
| 350      | 0.25562 | 0.0069 | 1.8E-03 | 361 | 1 | 0.96 | 1E-06 | 6.1E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 9.62E-10  | 0.0010  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     | (Risk /   |        |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)  |
| 351      | 0.2724  | 0.0069 | 1.9E-03 | 361 | 1 | 0.96 | 1E-06  | 6.5E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.03E-09  | 0.0010 |
| 352      | 0.28943 | 0.0069 | 2.0E-03 | 361 | 1 | 0.96 | 1E-06  | 6.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.09E-09  | 0.0011 |
| 353      | 0.3067  | 0.0069 | 2.1E-03 | 361 | 1 | 0.96 | 1E-06  | 7.3E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.15E-09  | 0.0012 |
| 354      | 0.33648 | 0.0069 | 2.3E-03 | 361 | 1 | 0.96 | 1E-06  | 8.1E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.27E-09  | 0.0013 |
| 355      | 0.3689  | 0.0069 | 2.6E-03 | 361 | 1 | 0.96 | 1E-06  | 8.8E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.39E-09  | 0.0014 |
| 356      | 0.44002 | 0.0069 | 3.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.66E-09  | 0.0017 |
| 357      | 0.51306 | 0.0069 | 3.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.93E-09  | 0.0019 |
| 358      | 0.59206 | 0.0069 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.23E-09  | 0.0022 |
| 359      | 0.66144 | 0.0069 | 4.6E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.49E-09  | 0.0025 |
| 360      | 0.71417 | 0.0069 | 4.9E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.69E-09  | 0.0027 |
| 361      | 0.73968 | 0.0069 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.78E-09  | 0.0028 |
| 362      | 0.74345 | 0.0069 | 5.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.8E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.80E-09  | 0.0028 |
| 363      | 0.71982 | 0.0069 | 5.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.7E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.71E-09  | 0.0027 |
| 364      | 0.65107 | 0.0069 | 4.5E-03 | 361 | 1 | 0.96 | 1E-06  | 1.6E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.45E-09  | 0.0025 |
| 365      | 0.60983 | 0.0069 | 4.2E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.30E-09  | 0.0023 |
| 366      | 0.53056 | 0.0069 | 3.7E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.00E-09  | 0.0020 |
| 367      | 0.48574 | 0.0069 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.83E-09  | 0.0018 |
| 368      | 0.25159 | 0.0069 | 1.7E-03 | 361 | 1 | 0.96 | 1E-06  | 6.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 9.47E-10  | 0.0009 |
| 369      | 0.24678 | 0.0069 | 1.7E-03 | 361 | 1 | 0.96 | 1E-06  | 5.9E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 9.29E-10  | 0.0009 |
| 370      | 0.23335 | 0.0069 | 1.6E-03 | 361 | 1 | 0.96 | 1E-06  | 5.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 8.79E-10  | 0.0009 |
| 371      | 0.21774 | 0.0069 | 1.5E-03 | 361 | 1 | 0.96 | 1E-06  | 5.2E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 8.20E-10  | 0.0008 |
| 372      | 0.22662 | 0.0069 | 1.6E-03 | 361 | 1 | 0.96 | 1E-06  | 5.4E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 8.53E-10  | 0.0009 |
| 373      | 0.22108 | 0.0069 | 1.5E-03 | 361 | 1 | 0.96 | 1E-06  | 5.3E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 8.32E-10  | 0.0008 |
| 374      | 0.24111 | 0.0069 | 1.7E-03 | 361 | 1 | 0.96 | 1E-06  | 5.8E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 9.08E-10  | 0.0009 |
| 375      | 0.25062 | 0.0069 | 1.7E-03 | 361 | 1 | 0.96 | 1E-06  | 6.0E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 9.44E-10  | 0.0009 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from 3rd Trimester*

| Receptor |         |        |         |     |   |      | Consta |         |     |     |      |    |     |           | (Risk / |
|----------|---------|--------|---------|-----|---|------|--------|---------|-----|-----|------|----|-----|-----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR | A | EF   | nt1    | DOSE    | CPF | ASF | ED   | AT | FAH | (3rd Tri) | Mill)   |
| 376      | 0.27425 | 0.0069 | 1.9E-03 | 361 | 1 | 0.96 | 1E-06  | 6.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.03E-09  | 0.0010  |
| 377      | 0.29662 | 0.0069 | 2.1E-03 | 361 | 1 | 0.96 | 1E-06  | 7.1E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.12E-09  | 0.0011  |
| 378      | 0.31582 | 0.0069 | 2.2E-03 | 361 | 1 | 0.96 | 1E-06  | 7.6E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.19E-09  | 0.0012  |
| 379      | 0.36484 | 0.0069 | 2.5E-03 | 361 | 1 | 0.96 | 1E-06  | 8.7E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.37E-09  | 0.0014  |
| 380      | 0.40393 | 0.0069 | 2.8E-03 | 361 | 1 | 0.96 | 1E-06  | 9.7E-07 | 1.1 | 10  | 0.01 | 70 | 1   | 1.52E-09  | 0.0015  |
| 381      | 0.48601 | 0.0069 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.83E-09  | 0.0018  |
| 382      | 0.5477  | 0.0069 | 3.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.06E-09  | 0.0021  |
| 383      | 0.59749 | 0.0069 | 4.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.25E-09  | 0.0022  |
| 384      | 0.62971 | 0.0069 | 4.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.37E-09  | 0.0024  |
| 385      | 0.64012 | 0.0069 | 4.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.41E-09  | 0.0024  |
| 386      | 0.62903 | 0.0069 | 4.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.5E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.37E-09  | 0.0024  |
| 387      | 0.5807  | 0.0069 | 4.0E-03 | 361 | 1 | 0.96 | 1E-06  | 1.4E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.19E-09  | 0.0022  |
| 388      | 0.55072 | 0.0069 | 3.8E-03 | 361 | 1 | 0.96 | 1E-06  | 1.3E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 2.07E-09  | 0.0021  |
| 389      | 0.49043 | 0.0069 | 3.4E-03 | 361 | 1 | 0.96 | 1E-06  | 1.2E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.85E-09  | 0.0018  |
| 390      | 0.45288 | 0.0069 | 3.1E-03 | 361 | 1 | 0.96 | 1E-06  | 1.1E-06 | 1.1 | 10  | 0.01 | 70 | 1   | 1.71E-09  | 0.0017  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |          |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|----------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |          |
| 1        | 0.0069 | 9.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   | Max      |
| 2        | 0.0069 | 9.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.67E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   | 4.35E-01 |
| 3        | 0.0069 | 8.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.84E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 4        | 0.0069 | 7.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.19E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 5        | 0.0069 | 7.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.47E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.00   |          |
| 6        | 0.0069 | 6.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.94E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.00   |          |
| 7        | 0.0069 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 8        | 0.0069 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 9        | 0.0069 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 10       | 0.0069 | 9.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.81E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 11       | 0.0069 | 8.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.61E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 12       | 0.0069 | 7.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.08E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 13       | 0.0069 | 7.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.61E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.00   |          |
| 14       | 0.0069 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 15       | 0.0069 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.34E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 16       | 0.0069 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 17       | 0.0069 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 18       | 0.0069 | 9.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.64E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 19       | 0.0069 | 8.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.79E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 20       | 0.0069 | 7.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.20E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |          |
| 21       | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.17E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |          |
| 22       | 0.0069 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.63E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |          |
| 23       | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.90E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |          |
| 24       | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.98E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |          |
| 25       | 0.0069 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.42E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 26       | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.31E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 27       | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.97E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 28       | 0.0069 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.52E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 29       | 0.0069 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.98E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 30       | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 31       | 0.0069 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 32       | 0.0069 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 33       | 0.0069 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 34       | 0.0069 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 35       | 0.0069 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 36       | 0.0069 | 9.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.61E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 37       | 0.0069 | 8.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.08E-07 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 38       | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.27E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 39       | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.87E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 40       | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.14E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 41       | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 42       | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.46E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 43       | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.61E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 44       | 0.0069 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.39E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 45       | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.88E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 46       | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.32E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 47       | 0.0069 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.02E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 48       | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.38E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 49       | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 50       | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 51       | 0.0069 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 52       | 0.0069 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 53       | 0.0069 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 54       | 0.0069 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 55       | 0.0069 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 56       | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.04E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 57       | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.12E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 58       | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.26E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 59       | 0.0069 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.94E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 60       | 0.0069 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.01E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 61       | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.33E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 62       | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.22E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 63       | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.53E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 64       | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.09E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 65       | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.35E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 66       | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.38E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 67       | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.38E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 68       | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 69       | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 70       | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 71       | 0.0069 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.48E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 72       | 0.0069 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 73       | 0.0069 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.59E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 74       | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.53E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 75       | 0.0069 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.71E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 76       | 0.0069 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.74E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 77       | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.33E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 78       | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.13E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 79       | 0.0069 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.43E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 80       | 0.0069 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.55E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 81       | 0.0069 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.98E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 82       | 0.0069 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.13E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 83       | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.32E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 84       | 0.0069 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.92E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 85       | 0.0069 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.50E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 86       | 0.0069 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.28E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 87       | 0.0069 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.18E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 88       | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.07E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 89       | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.95E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 90       | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.86E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 91       | 0.0069 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.54E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 92       | 0.0069 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.66E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 93       | 0.0069 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.48E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 94       | 0.0069 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.85E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 95       | 0.0069 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.52E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 96       | 0.0069 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.13E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 97       | 0.0069 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.54E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 98       | 0.0069 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.53E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 99       | 0.0069 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.38E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 100      | 0.0069 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.19E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 101      | 0.0069 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.66E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 102      | 0.0069 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.49E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 103      | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 104      | 0.0069 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 105      | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 106      | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.85E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 107      | 0.0069 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.05E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 108      | 0.0069 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.83E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 109      | 0.0069 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.14E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 110      | 0.0069 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.19E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 111      | 0.0069 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.45E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 112      | 0.0069 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 113      | 0.0069 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 114      | 0.0069 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.84E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 115      | 0.0069 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.96E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 116      | 0.0069 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.85E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 117      | 0.0069 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.77E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 118      | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.43E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 119      | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 120      | 0.0069 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.72E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 121      | 0.0069 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.26E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 122      | 0.0069 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.14E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 123      | 0.0069 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.46E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 124      | 0.0069 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 125      | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 126      | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.09   |
| 127      | 0.0069 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.11   |
| 128      | 0.0069 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.75E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 129      | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.99E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 130      | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.37E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 131      | 0.0069 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.75E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 132      | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 133      | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.16E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 134      | 0.0069 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.78E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 135      | 0.0069 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.80E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 136      | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 137      | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.09   |
| 138      | 0.0069 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.13   |
| 139      | 0.0069 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.13E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.27   |
| 140      | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.85E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 141      | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.83E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 142      | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 143      | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 144      | 0.0069 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.08E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 145      | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.08   |
| 146      | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.09   |
| 147      | 0.0069 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.91E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.12   |
| 148      | 0.0069 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.82E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.18   |
| 149      | 0.0069 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.54E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.17   |
| 150      | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.10   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 151      | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 152      | 0.0069 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.85E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 153      | 0.0069 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.14E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 154      | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.20E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 155      | 0.0069 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.42E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 156      | 0.0069 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.92E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 157      | 0.0069 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.42E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.16   |
| 158      | 0.0069 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.18   |
| 159      | 0.0069 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.28E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.21   |
| 160      | 0.0069 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.12   |
| 161      | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.08   |
| 162      | 0.0069 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.79E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 163      | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 164      | 0.0069 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.71E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 165      | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.11E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 166      | 0.0069 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.87E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.25   |
| 167      | 0.0069 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.13E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.14   |
| 168      | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.09   |
| 169      | 0.0069 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 170      | 0.0069 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.85E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 171      | 0.0069 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.93E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 172      | 0.0069 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.73E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 173      | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.09E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 174      | 0.0069 | 5.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.19E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.40   |
| 175      | 0.0069 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.91E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.25   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 176      | 0.0069 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.41E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.16   |
| 177      | 0.0069 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.11   |
| 178      | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.08   |
| 179      | 0.0069 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.37E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 180      | 0.0069 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.47E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 181      | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.49E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 182      | 0.0069 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 183      | 0.0069 | 4.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.17E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.34   |
| 184      | 0.0069 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.24   |
| 185      | 0.0069 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.55E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.17   |
| 186      | 0.0069 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.11   |
| 187      | 0.0069 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.08   |
| 188      | 0.0069 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.48E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 189      | 0.0069 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.31E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 190      | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.82E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 191      | 0.0069 | 5.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.02E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.39   |
| 192      | 0.0069 | 4.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.36E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.28   |
| 193      | 0.0069 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.23E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.21   |
| 194      | 0.0069 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.41E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.16   |
| 195      | 0.0069 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.78E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.12   |
| 196      | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.09   |
| 197      | 0.0069 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 198      | 0.0069 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.86E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 199      | 0.0069 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.34E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 200      | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.22E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 201      | 0.0069 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.35E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.15   |
| 202      | 0.0069 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.58E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.23   |
| 203      | 0.0069 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.24E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.28   |
| 204      | 0.0069 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.62E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.30   |
| 205      | 0.0069 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.27E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.28   |
| 206      | 0.0069 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.53E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.23   |
| 207      | 0.0069 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.84E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.19   |
| 208      | 0.0069 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.24E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.15   |
| 209      | 0.0069 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.11   |
| 210      | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.09   |
| 211      | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 212      | 0.0069 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.30E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 213      | 0.0069 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.79E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 214      | 0.0069 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.42E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 215      | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.54E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 216      | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 217      | 0.0069 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.08   |
| 218      | 0.0069 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.11   |
| 219      | 0.0069 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.24E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.15   |
| 220      | 0.0069 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.64E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.17   |
| 221      | 0.0069 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.18   |
| 222      | 0.0069 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.18   |
| 223      | 0.0069 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.15   |
| 224      | 0.0069 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.97E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.13   |
| 225      | 0.0069 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.60E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.10   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 226      | 0.0069 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.08   |
| 227      | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 228      | 0.0069 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.43E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 229      | 0.0069 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.83E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 230      | 0.0069 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.63E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 231      | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 232      | 0.0069 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.67E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 233      | 0.0069 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.08E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 234      | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 235      | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.09   |
| 236      | 0.0069 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.11   |
| 237      | 0.0069 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.13   |
| 238      | 0.0069 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.00E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.13   |
| 239      | 0.0069 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.86E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.12   |
| 240      | 0.0069 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.11   |
| 241      | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.09   |
| 242      | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.08   |
| 243      | 0.0069 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.81E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 244      | 0.0069 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.21E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 245      | 0.0069 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.65E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 246      | 0.0069 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.64E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 247      | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.57E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 248      | 0.0069 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.26E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 249      | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.20E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 250      | 0.0069 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.26E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 251      | 0.0069 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.32E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 252      | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.08   |
| 253      | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.09   |
| 254      | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.10   |
| 255      | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.09   |
| 256      | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.09   |
| 257      | 0.0069 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.08   |
| 258      | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 259      | 0.0069 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.08E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 260      | 0.0069 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.78E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 261      | 0.0069 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.47E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 262      | 0.0069 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.52E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 263      | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.57E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 264      | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.20E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 265      | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.06E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 266      | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.19E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 267      | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.81E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 268      | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.78E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 269      | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.38E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 270      | 0.0069 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.66E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 271      | 0.0069 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.46E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 272      | 0.0069 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 273      | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 274      | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 275      | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 276      | 0.0069 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.07   |
| 277      | 0.0069 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.32E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 278      | 0.0069 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.25E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 279      | 0.0069 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.24E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 280      | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 281      | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.22E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 282      | 0.0069 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.40E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 283      | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.33E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 284      | 0.0069 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.20E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 285      | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.13E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 286      | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.32E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 287      | 0.0069 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.78E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 288      | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.12E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 289      | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.29E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 290      | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.19E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 291      | 0.0069 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.33E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 292      | 0.0069 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.54E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 293      | 0.0069 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.51E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 294      | 0.0069 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.07E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 295      | 0.0069 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.10E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 296      | 0.0069 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.79E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.06   |
| 297      | 0.0069 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.20E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 298      | 0.0069 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.43E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 299      | 0.0069 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.63E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 300      | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.80E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 301      | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.78E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 302      | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.21E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 303      | 0.0069 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.83E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 304      | 0.0069 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.60E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 305      | 0.0069 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.57E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 306      | 0.0069 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.49E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 307      | 0.0069 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 308      | 0.0069 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.83E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 309      | 0.0069 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.19E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 310      | 0.0069 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.46E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 311      | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.08E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 312      | 0.0069 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.90E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 313      | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.82E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 314      | 0.0069 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.66E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 315      | 0.0069 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.25E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 316      | 0.0069 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.52E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 317      | 0.0069 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.44E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 318      | 0.0069 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.11E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.05   |
| 319      | 0.0069 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.62E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 320      | 0.0069 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.98E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 321      | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.36E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 322      | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.45E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 323      | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.99E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 324      | 0.0069 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.76E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 325      | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 326      | 0.0069 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 327      | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 328      | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 329      | 0.0069 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.29E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 330      | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.39E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 331      | 0.0069 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.59E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 332      | 0.0069 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 333      | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.31E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 334      | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.90E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 335      | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.59E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 336      | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.29E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 337      | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.85E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 338      | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.22E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 339      | 0.0069 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.32E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 340      | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 341      | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.88E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 342      | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.28E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 343      | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.86E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 344      | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.15E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 345      | 0.0069 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.75E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 346      | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.10E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 347      | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.02E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 348      | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 349      | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 350      | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.85E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 351      | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.97E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 352      | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 353      | 0.0069 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.22E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 354      | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.43E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 355      | 0.0069 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.67E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 356      | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.18E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 357      | 0.0069 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.71E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 358      | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.28E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 359      | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.79E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 360      | 0.0069 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.17E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 361      | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.35E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 362      | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.38E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.04   |
| 363      | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.21E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 364      | 0.0069 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.71E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 365      | 0.0069 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.41E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 366      | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.84E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 367      | 0.0069 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.51E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 368      | 0.0069 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.82E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 369      | 0.0069 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 370      | 0.0069 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 371      | 0.0069 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 372      | 0.0069 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 373      | 0.0069 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.60E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 374      | 0.0069 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 375      | 0.0069 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 376      | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 377      | 0.0069 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.15E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 378      | 0.0069 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.28E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.01   |
| 379      | 0.0069 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.64E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 380      | 0.0069 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.92E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 381      | 0.0069 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.52E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 382      | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.96E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 383      | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.32E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 384      | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.56E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 385      | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.63E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 386      | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.55E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 387      | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.20E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 388      | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.98E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.03   |
| 389      | 0.0069 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.55E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |
| 390      | 0.0069 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.28E-06 | 1.1 | 10  | 0.04 | 70 | 1   | 0.00     | 0.02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 9.87E-04 | 5   | 1.97E-04 | 1.18E-02 |
| 2  | 9.25E-04 | 5   | 1.85E-04 |          |
| 3  | 8.45E-04 | 5   | 1.69E-04 |          |
| 4  | 7.83E-04 | 5   | 1.57E-04 |          |
| 5  | 7.15E-04 | 5   | 1.43E-04 |          |
| 6  | 6.64E-04 | 5   | 1.33E-04 |          |
| 7  | 1.25E-03 | 5   | 2.51E-04 |          |
| 8  | 1.15E-03 | 5   | 2.30E-04 |          |
| 9  | 1.01E-03 | 5   | 2.02E-04 |          |
| 10 | 9.39E-04 | 5   | 1.88E-04 |          |
| 11 | 8.24E-04 | 5   | 1.65E-04 |          |
| 12 | 7.73E-04 | 5   | 1.55E-04 |          |
| 13 | 7.28E-04 | 5   | 1.46E-04 |          |
| 14 | 1.38E-03 | 5   | 2.75E-04 |          |
| 15 | 1.28E-03 | 5   | 2.57E-04 |          |
| 16 | 1.15E-03 | 5   | 2.30E-04 |          |
| 17 | 1.01E-03 | 5   | 2.03E-04 |          |
| 18 | 9.22E-04 | 5   | 1.84E-04 |          |
| 19 | 8.41E-04 | 5   | 1.68E-04 |          |
| 20 | 7.84E-04 | 5   | 1.57E-04 |          |
| 21 | 3.03E-03 | 5   | 6.06E-04 |          |
| 22 | 3.47E-03 | 5   | 6.94E-04 |          |
| 23 | 3.73E-03 | 5   | 7.45E-04 |          |
| 24 | 3.81E-03 | 5   | 7.62E-04 |          |
| 25 | 4.23E-03 | 5   | 8.45E-04 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 4.12E-03    | 5          | 8.24E-04  |
| 27       | 3.79E-03    | 5          | 7.59E-04  |
| 28       | 3.37E-03    | 5          | 6.74E-04  |
| 29       | 2.86E-03    | 5          | 5.71E-04  |
| 30       | 1.87E-03    | 5          | 3.75E-04  |
| 31       | 1.73E-03    | 5          | 3.46E-04  |
| 32       | 1.41E-03    | 5          | 2.82E-04  |
| 33       | 1.34E-03    | 5          | 2.68E-04  |
| 34       | 1.11E-03    | 5          | 2.22E-04  |
| 35       | 1.03E-03    | 5          | 2.06E-04  |
| 36       | 9.19E-04    | 5          | 1.84E-04  |
| 37       | 8.69E-04    | 5          | 1.74E-04  |
| 38       | 4.09E-03    | 5          | 8.17E-04  |
| 39       | 3.70E-03    | 5          | 7.41E-04  |
| 40       | 3.96E-03    | 5          | 7.92E-04  |
| 41       | 4.05E-03    | 5          | 8.10E-04  |
| 42       | 4.27E-03    | 5          | 8.53E-04  |
| 43       | 4.41E-03    | 5          | 8.83E-04  |
| 44       | 4.20E-03    | 5          | 8.40E-04  |
| 45       | 3.71E-03    | 5          | 7.43E-04  |
| 46       | 3.18E-03    | 5          | 6.36E-04  |
| 47       | 2.89E-03    | 5          | 5.78E-04  |
| 48       | 2.28E-03    | 5          | 4.56E-04  |
| 49       | 1.97E-03    | 5          | 3.95E-04  |
| 50       | 1.79E-03    | 5          | 3.57E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 1.60E-03    | 5          | 3.20E-04  |
| 52       | 1.28E-03    | 5          | 2.55E-04  |
| 53       | 1.13E-03    | 5          | 2.25E-04  |
| 54       | 1.03E-03    | 5          | 2.07E-04  |
| 55       | 1.05E-03    | 5          | 2.11E-04  |
| 56       | 3.86E-03    | 5          | 7.72E-04  |
| 57       | 3.94E-03    | 5          | 7.87E-04  |
| 58       | 4.07E-03    | 5          | 8.14E-04  |
| 59       | 4.73E-03    | 5          | 9.46E-04  |
| 60       | 4.79E-03    | 5          | 9.59E-04  |
| 61       | 5.10E-03    | 5          | 1.02E-03  |
| 62       | 5.00E-03    | 5          | 9.99E-04  |
| 63       | 4.34E-03    | 5          | 8.67E-04  |
| 64       | 3.91E-03    | 5          | 7.82E-04  |
| 65       | 3.21E-03    | 5          | 6.41E-04  |
| 66       | 3.24E-03    | 5          | 6.47E-04  |
| 67       | 2.28E-03    | 5          | 4.55E-04  |
| 68       | 2.03E-03    | 5          | 4.05E-04  |
| 69       | 1.87E-03    | 5          | 3.75E-04  |
| 70       | 1.81E-03    | 5          | 3.62E-04  |
| 71       | 1.41E-03    | 5          | 2.83E-04  |
| 72       | 1.32E-03    | 5          | 2.64E-04  |
| 73       | 1.52E-03    | 5          | 3.05E-04  |
| 74       | 4.34E-03    | 5          | 8.68E-04  |
| 75       | 4.50E-03    | 5          | 9.01E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 4.53E-03    | 5          | 9.06E-04  |
| 77       | 5.10E-03    | 5          | 1.02E-03  |
| 78       | 5.86E-03    | 5          | 1.17E-03  |
| 79       | 6.15E-03    | 5          | 1.23E-03  |
| 80       | 6.26E-03    | 5          | 1.25E-03  |
| 81       | 5.72E-03    | 5          | 1.14E-03  |
| 82       | 4.91E-03    | 5          | 9.81E-04  |
| 83       | 4.13E-03    | 5          | 8.26E-04  |
| 84       | 4.71E-03    | 5          | 9.41E-04  |
| 85       | 2.40E-03    | 5          | 4.79E-04  |
| 86       | 2.18E-03    | 5          | 4.36E-04  |
| 87       | 2.09E-03    | 5          | 4.18E-04  |
| 88       | 1.98E-03    | 5          | 3.96E-04  |
| 89       | 1.87E-03    | 5          | 3.73E-04  |
| 90       | 1.78E-03    | 5          | 3.57E-04  |
| 91       | 5.30E-03    | 5          | 1.06E-03  |
| 92       | 5.41E-03    | 5          | 1.08E-03  |
| 93       | 6.20E-03    | 5          | 1.24E-03  |
| 94       | 6.56E-03    | 5          | 1.31E-03  |
| 95       | 7.20E-03    | 5          | 1.44E-03  |
| 96       | 7.78E-03    | 5          | 1.56E-03  |
| 97       | 7.21E-03    | 5          | 1.44E-03  |
| 98       | 6.25E-03    | 5          | 1.25E-03  |
| 99       | 6.11E-03    | 5          | 1.22E-03  |
| 100      | 3.05E-03    | 5          | 6.11E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 2.55E-03 | 5   | 5.09E-04 |
| 102           | 2.38E-03 | 5   | 4.77E-04 |
| 103           | 2.27E-03 | 5   | 4.54E-04 |
| 104           | 2.12E-03 | 5   | 4.23E-04 |
| 105           | 1.91E-03 | 5   | 3.82E-04 |
| 106           | 5.60E-03 | 5   | 1.12E-03 |
| 107           | 5.79E-03 | 5   | 1.16E-03 |
| 108           | 6.54E-03 | 5   | 1.31E-03 |
| 109           | 6.83E-03 | 5   | 1.37E-03 |
| 110           | 7.83E-03 | 5   | 1.57E-03 |
| 111           | 9.04E-03 | 5   | 1.81E-03 |
| 112           | 9.78E-03 | 5   | 1.96E-03 |
| 113           | 9.84E-03 | 5   | 1.97E-03 |
| 114           | 9.42E-03 | 5   | 1.88E-03 |
| 115           | 2.83E-03 | 5   | 5.67E-04 |
| 116           | 2.73E-03 | 5   | 5.46E-04 |
| 117           | 2.65E-03 | 5   | 5.30E-04 |
| 118           | 2.32E-03 | 5   | 4.64E-04 |
| 119           | 1.97E-03 | 5   | 3.94E-04 |
| 120           | 6.43E-03 | 5   | 1.29E-03 |
| 121           | 5.99E-03 | 5   | 1.20E-03 |
| 122           | 6.83E-03 | 5   | 1.37E-03 |
| 123           | 8.09E-03 | 5   | 1.62E-03 |
| 124           | 9.59E-03 | 5   | 1.92E-03 |
| 125           | 1.10E-02 | 5   | 2.19E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 126      | 1.36E-02 | 5   | 2.73E-03 |
| 127      | 1.63E-02 | 5   | 3.26E-03 |
| 128      | 4.54E-03 | 5   | 9.09E-04 |
| 129      | 3.82E-03 | 5   | 7.64E-04 |
| 130      | 3.23E-03 | 5   | 6.45E-04 |
| 131      | 2.63E-03 | 5   | 5.26E-04 |
| 132      | 1.81E-03 | 5   | 3.62E-04 |
| 133      | 5.89E-03 | 5   | 1.18E-03 |
| 134      | 7.45E-03 | 5   | 1.49E-03 |
| 135      | 9.37E-03 | 5   | 1.87E-03 |
| 136      | 1.09E-02 | 5   | 2.18E-03 |
| 137      | 1.34E-02 | 5   | 2.67E-03 |
| 138      | 1.88E-02 | 5   | 3.76E-03 |
| 139      | 3.96E-02 | 5   | 7.91E-03 |
| 140      | 4.64E-03 | 5   | 9.28E-04 |
| 141      | 3.66E-03 | 5   | 7.32E-04 |
| 142      | 3.02E-03 | 5   | 6.05E-04 |
| 143      | 2.02E-03 | 5   | 4.05E-04 |
| 144      | 8.69E-03 | 5   | 1.74E-03 |
| 145      | 1.14E-02 | 5   | 2.29E-03 |
| 146      | 1.37E-02 | 5   | 2.75E-03 |
| 147      | 1.83E-02 | 5   | 3.66E-03 |
| 148      | 2.69E-02 | 5   | 5.39E-03 |
| 149      | 2.43E-02 | 5   | 4.86E-03 |
| 150      | 1.41E-02 | 5   | 2.82E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 1.04E-02 | 5   | 2.08E-03 |
| 152           | 8.47E-03 | 5   | 1.69E-03 |
| 153           | 4.91E-03 | 5   | 9.83E-04 |
| 154           | 4.02E-03 | 5   | 8.04E-04 |
| 155           | 3.27E-03 | 5   | 6.54E-04 |
| 156           | 2.79E-03 | 5   | 5.59E-04 |
| 157           | 2.31E-02 | 5   | 4.63E-03 |
| 158           | 2.60E-02 | 5   | 5.21E-03 |
| 159           | 3.14E-02 | 5   | 6.29E-03 |
| 160           | 1.75E-02 | 5   | 3.50E-03 |
| 161           | 1.14E-02 | 5   | 2.29E-03 |
| 162           | 8.41E-03 | 5   | 1.68E-03 |
| 163           | 4.05E-03 | 5   | 8.10E-04 |
| 164           | 3.55E-03 | 5   | 7.09E-04 |
| 165           | 2.98E-03 | 5   | 5.95E-04 |
| 166           | 3.70E-02 | 5   | 7.40E-03 |
| 167           | 2.03E-02 | 5   | 4.07E-03 |
| 168           | 1.40E-02 | 5   | 2.79E-03 |
| 169           | 9.86E-03 | 5   | 1.97E-03 |
| 170           | 7.51E-03 | 5   | 1.50E-03 |
| 171           | 4.72E-03 | 5   | 9.44E-04 |
| 172           | 3.57E-03 | 5   | 7.14E-04 |
| 173           | 2.96E-03 | 5   | 5.92E-04 |
| 174           | 5.92E-02 | 5   | 1.18E-02 |
| 175           | 3.74E-02 | 5   | 7.48E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 2.31E-02 | 5   | 4.62E-03 |
| 177           | 1.57E-02 | 5   | 3.13E-03 |
| 178           | 1.10E-02 | 5   | 2.21E-03 |
| 179           | 8.01E-03 | 5   | 1.60E-03 |
| 180           | 6.19E-03 | 5   | 1.24E-03 |
| 181           | 4.30E-03 | 5   | 8.59E-04 |
| 182           | 3.50E-03 | 5   | 7.00E-04 |
| 183           | 4.95E-02 | 5   | 9.90E-03 |
| 184           | 3.50E-02 | 5   | 7.01E-03 |
| 185           | 2.44E-02 | 5   | 4.88E-03 |
| 186           | 1.67E-02 | 5   | 3.34E-03 |
| 187           | 1.22E-02 | 5   | 2.44E-03 |
| 188           | 9.07E-03 | 5   | 1.81E-03 |
| 189           | 6.99E-03 | 5   | 1.40E-03 |
| 190           | 5.56E-03 | 5   | 1.11E-03 |
| 191           | 5.76E-02 | 5   | 1.15E-02 |
| 192           | 4.17E-02 | 5   | 8.34E-03 |
| 193           | 3.09E-02 | 5   | 6.17E-03 |
| 194           | 2.31E-02 | 5   | 4.61E-03 |
| 195           | 1.70E-02 | 5   | 3.41E-03 |
| 196           | 1.27E-02 | 5   | 2.55E-03 |
| 197           | 9.83E-03 | 5   | 1.97E-03 |
| 198           | 7.52E-03 | 5   | 1.50E-03 |
| 199           | 6.06E-03 | 5   | 1.21E-03 |
| 200           | 5.00E-03 | 5   | 9.99E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 201           | 2.25E-02 | 5   | 4.50E-03 |
| 202           | 3.43E-02 | 5   | 6.85E-03 |
| 203           | 4.06E-02 | 5   | 8.12E-03 |
| 204           | 4.42E-02 | 5   | 8.83E-03 |
| 205           | 4.08E-02 | 5   | 8.16E-03 |
| 206           | 3.38E-02 | 5   | 6.76E-03 |
| 207           | 2.72E-02 | 5   | 5.44E-03 |
| 208           | 2.14E-02 | 5   | 4.29E-03 |
| 209           | 1.65E-02 | 5   | 3.31E-03 |
| 210           | 1.29E-02 | 5   | 2.58E-03 |
| 211           | 1.02E-02 | 5   | 2.03E-03 |
| 212           | 7.94E-03 | 5   | 1.59E-03 |
| 213           | 6.50E-03 | 5   | 1.30E-03 |
| 214           | 5.18E-03 | 5   | 1.04E-03 |
| 215           | 4.35E-03 | 5   | 8.69E-04 |
| 216           | 1.05E-02 | 5   | 2.10E-03 |
| 217           | 1.21E-02 | 5   | 2.42E-03 |
| 218           | 1.67E-02 | 5   | 3.34E-03 |
| 219           | 2.14E-02 | 5   | 4.28E-03 |
| 220           | 2.53E-02 | 5   | 5.05E-03 |
| 221           | 2.68E-02 | 5   | 5.37E-03 |
| 222           | 2.58E-02 | 5   | 5.16E-03 |
| 223           | 2.26E-02 | 5   | 4.51E-03 |
| 224           | 1.89E-02 | 5   | 3.77E-03 |
| 225           | 1.53E-02 | 5   | 3.05E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 226           | 1.23E-02 | 5   | 2.45E-03 |
| 227           | 9.98E-03 | 5   | 2.00E-03 |
| 228           | 8.06E-03 | 5   | 1.61E-03 |
| 229           | 6.53E-03 | 5   | 1.31E-03 |
| 230           | 5.38E-03 | 5   | 1.08E-03 |
| 231           | 4.30E-03 | 5   | 8.61E-04 |
| 232           | 7.33E-03 | 5   | 1.47E-03 |
| 233           | 7.73E-03 | 5   | 1.55E-03 |
| 234           | 1.02E-02 | 5   | 2.05E-03 |
| 235           | 1.31E-02 | 5   | 2.62E-03 |
| 236           | 1.61E-02 | 5   | 3.21E-03 |
| 237           | 1.88E-02 | 5   | 3.76E-03 |
| 238           | 1.92E-02 | 5   | 3.83E-03 |
| 239           | 1.78E-02 | 5   | 3.56E-03 |
| 240           | 1.58E-02 | 5   | 3.16E-03 |
| 241           | 1.34E-02 | 5   | 2.68E-03 |
| 242           | 1.13E-02 | 5   | 2.26E-03 |
| 243           | 9.39E-03 | 5   | 1.88E-03 |
| 244           | 7.86E-03 | 5   | 1.57E-03 |
| 245           | 6.36E-03 | 5   | 1.27E-03 |
| 246           | 5.40E-03 | 5   | 1.08E-03 |
| 247           | 4.37E-03 | 5   | 8.75E-04 |
| 248           | 5.99E-03 | 5   | 1.20E-03 |
| 249           | 5.93E-03 | 5   | 1.19E-03 |
| 250           | 6.95E-03 | 5   | 1.39E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 251      | 8.92E-03 | 5   | 1.78E-03 |
| 252      | 1.13E-02 | 5   | 2.27E-03 |
| 253      | 1.32E-02 | 5   | 2.63E-03 |
| 254      | 1.40E-02 | 5   | 2.81E-03 |
| 255      | 1.39E-02 | 5   | 2.78E-03 |
| 256      | 1.30E-02 | 5   | 2.61E-03 |
| 257      | 1.16E-02 | 5   | 2.33E-03 |
| 258      | 1.01E-02 | 5   | 2.02E-03 |
| 259      | 8.68E-03 | 5   | 1.74E-03 |
| 260      | 7.45E-03 | 5   | 1.49E-03 |
| 261      | 6.19E-03 | 5   | 1.24E-03 |
| 262      | 5.28E-03 | 5   | 1.06E-03 |
| 263      | 4.37E-03 | 5   | 8.74E-04 |
| 264      | 4.02E-03 | 5   | 8.03E-04 |
| 265      | 3.88E-03 | 5   | 7.76E-04 |
| 266      | 4.01E-03 | 5   | 8.02E-04 |
| 267      | 4.60E-03 | 5   | 9.20E-04 |
| 268      | 4.57E-03 | 5   | 9.14E-04 |
| 269      | 5.15E-03 | 5   | 1.03E-03 |
| 270      | 6.37E-03 | 5   | 1.27E-03 |
| 271      | 8.09E-03 | 5   | 1.62E-03 |
| 272      | 9.59E-03 | 5   | 1.92E-03 |
| 273      | 1.06E-02 | 5   | 2.12E-03 |
| 274      | 1.09E-02 | 5   | 2.19E-03 |
| 275      | 1.06E-02 | 5   | 2.12E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 276           | 9.90E-03 | 5   | 1.98E-03 |
| 277           | 8.92E-03 | 5   | 1.78E-03 |
| 278           | 7.89E-03 | 5   | 1.58E-03 |
| 279           | 6.93E-03 | 5   | 1.39E-03 |
| 280           | 5.91E-03 | 5   | 1.18E-03 |
| 281           | 4.99E-03 | 5   | 9.99E-04 |
| 282           | 4.21E-03 | 5   | 8.42E-04 |
| 283           | 3.19E-03 | 5   | 6.38E-04 |
| 284           | 3.06E-03 | 5   | 6.12E-04 |
| 285           | 3.00E-03 | 5   | 6.00E-04 |
| 286           | 3.17E-03 | 5   | 6.35E-04 |
| 287           | 3.62E-03 | 5   | 7.24E-04 |
| 288           | 3.94E-03 | 5   | 7.89E-04 |
| 289           | 4.11E-03 | 5   | 8.21E-04 |
| 290           | 4.97E-03 | 5   | 9.93E-04 |
| 291           | 6.06E-03 | 5   | 1.21E-03 |
| 292           | 7.21E-03 | 5   | 1.44E-03 |
| 293           | 8.14E-03 | 5   | 1.63E-03 |
| 294           | 8.67E-03 | 5   | 1.73E-03 |
| 295           | 8.71E-03 | 5   | 1.74E-03 |
| 296           | 8.41E-03 | 5   | 1.68E-03 |
| 297           | 7.85E-03 | 5   | 1.57E-03 |
| 298           | 7.11E-03 | 5   | 1.42E-03 |
| 299           | 6.34E-03 | 5   | 1.27E-03 |
| 300           | 5.55E-03 | 5   | 1.11E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 301      | 4.57E-03 | 5   | 9.15E-04 |
| 302      | 4.03E-03 | 5   | 8.06E-04 |
| 303      | 2.71E-03 | 5   | 5.42E-04 |
| 304      | 2.49E-03 | 5   | 4.97E-04 |
| 305      | 2.46E-03 | 5   | 4.92E-04 |
| 306      | 2.38E-03 | 5   | 4.76E-04 |
| 307      | 2.45E-03 | 5   | 4.89E-04 |
| 308      | 2.70E-03 | 5   | 5.41E-04 |
| 309      | 3.06E-03 | 5   | 6.11E-04 |
| 310      | 3.31E-03 | 5   | 6.62E-04 |
| 311      | 3.90E-03 | 5   | 7.81E-04 |
| 312      | 4.69E-03 | 5   | 9.38E-04 |
| 313      | 5.57E-03 | 5   | 1.11E-03 |
| 314      | 6.37E-03 | 5   | 1.27E-03 |
| 315      | 6.94E-03 | 5   | 1.39E-03 |
| 316      | 7.19E-03 | 5   | 1.44E-03 |
| 317      | 7.12E-03 | 5   | 1.42E-03 |
| 318      | 6.80E-03 | 5   | 1.36E-03 |
| 319      | 6.33E-03 | 5   | 1.27E-03 |
| 320      | 5.72E-03 | 5   | 1.14E-03 |
| 321      | 5.13E-03 | 5   | 1.03E-03 |
| 322      | 4.26E-03 | 5   | 8.52E-04 |
| 323      | 3.82E-03 | 5   | 7.64E-04 |
| 324      | 2.64E-03 | 5   | 5.27E-04 |
| 325      | 2.29E-03 | 5   | 4.59E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 326      | 2.24E-03 | 5   | 4.47E-04 |
| 327      | 2.02E-03 | 5   | 4.05E-04 |
| 328      | 2.02E-03 | 5   | 4.05E-04 |
| 329      | 2.19E-03 | 5   | 4.39E-04 |
| 330      | 2.29E-03 | 5   | 4.58E-04 |
| 331      | 2.48E-03 | 5   | 4.97E-04 |
| 332      | 2.79E-03 | 5   | 5.58E-04 |
| 333      | 3.17E-03 | 5   | 6.33E-04 |
| 334      | 3.73E-03 | 5   | 7.46E-04 |
| 335      | 4.40E-03 | 5   | 8.79E-04 |
| 336      | 5.06E-03 | 5   | 1.01E-03 |
| 337      | 5.59E-03 | 5   | 1.12E-03 |
| 338      | 5.95E-03 | 5   | 1.19E-03 |
| 339      | 6.05E-03 | 5   | 1.21E-03 |
| 340      | 5.91E-03 | 5   | 1.18E-03 |
| 341      | 5.63E-03 | 5   | 1.13E-03 |
| 342      | 5.05E-03 | 5   | 1.01E-03 |
| 343      | 4.65E-03 | 5   | 9.30E-04 |
| 344      | 3.97E-03 | 5   | 7.93E-04 |
| 345      | 3.59E-03 | 5   | 7.18E-04 |
| 346      | 2.01E-03 | 5   | 4.02E-04 |
| 347      | 1.93E-03 | 5   | 3.86E-04 |
| 348      | 1.85E-03 | 5   | 3.70E-04 |
| 349      | 1.75E-03 | 5   | 3.51E-04 |
| 350      | 1.77E-03 | 5   | 3.54E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 1.89E-03 | 5   | 3.77E-04 |
| 352           | 2.00E-03 | 5   | 4.01E-04 |
| 353           | 2.12E-03 | 5   | 4.25E-04 |
| 354           | 2.33E-03 | 5   | 4.66E-04 |
| 355           | 2.55E-03 | 5   | 5.11E-04 |
| 356           | 3.05E-03 | 5   | 6.09E-04 |
| 357           | 3.55E-03 | 5   | 7.10E-04 |
| 358           | 4.10E-03 | 5   | 8.20E-04 |
| 359           | 4.58E-03 | 5   | 9.16E-04 |
| 360           | 4.94E-03 | 5   | 9.89E-04 |
| 361           | 5.12E-03 | 5   | 1.02E-03 |
| 362           | 5.15E-03 | 5   | 1.03E-03 |
| 363           | 4.98E-03 | 5   | 9.96E-04 |
| 364           | 4.51E-03 | 5   | 9.01E-04 |
| 365           | 4.22E-03 | 5   | 8.44E-04 |
| 366           | 3.67E-03 | 5   | 7.34E-04 |
| 367           | 3.36E-03 | 5   | 6.72E-04 |
| 368           | 1.74E-03 | 5   | 3.48E-04 |
| 369           | 1.71E-03 | 5   | 3.42E-04 |
| 370           | 1.62E-03 | 5   | 3.23E-04 |
| 371           | 1.51E-03 | 5   | 3.01E-04 |
| 372           | 1.57E-03 | 5   | 3.14E-04 |
| 373           | 1.53E-03 | 5   | 3.06E-04 |
| 374           | 1.67E-03 | 5   | 3.34E-04 |
| 375           | 1.73E-03 | 5   | 3.47E-04 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 1.90E-03    | 5          | 3.80E-04  |
| 377      | 2.05E-03    | 5          | 4.11E-04  |
| 378      | 2.19E-03    | 5          | 4.37E-04  |
| 379      | 2.53E-03    | 5          | 5.05E-04  |
| 380      | 2.80E-03    | 5          | 5.59E-04  |
| 381      | 3.36E-03    | 5          | 6.73E-04  |
| 382      | 3.79E-03    | 5          | 7.58E-04  |
| 383      | 4.14E-03    | 5          | 8.27E-04  |
| 384      | 4.36E-03    | 5          | 8.72E-04  |
| 385      | 4.43E-03    | 5          | 8.86E-04  |
| 386      | 4.35E-03    | 5          | 8.71E-04  |
| 387      | 4.02E-03    | 5          | 8.04E-04  |
| 388      | 3.81E-03    | 5          | 7.62E-04  |
| 389      | 3.39E-03    | 5          | 6.79E-04  |
| 390      | 3.13E-03    | 5          | 6.27E-04  |

**Risk Calculations - 3rd Trimester Start  
Construction Phase 2C**

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |          |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |          |
| 1        | 0.14257 | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   | Max      |
| 2        | 0.13369 | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   | 7.34E-01 |
| 3        | 0.12214 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 4        | 0.11318 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 5        | 0.10329 | 0.0102 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 6        | 0.0959  | 0.0102 | 9.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 7        | 0.18122 | 0.0102 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |          |
| 8        | 0.16599 | 0.0102 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 9        | 0.14564 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 10       | 0.13566 | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 11       | 0.11905 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 12       | 0.11174 | 0.0102 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 13       | 0.10516 | 0.0102 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 14       | 0.19891 | 0.0102 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |          |
| 15       | 0.18538 | 0.0102 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |          |
| 16       | 0.16647 | 0.0102 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 17       | 0.14661 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 18       | 0.13322 | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 19       | 0.12149 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 20       | 0.11331 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 21       | 0.43801 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |          |
| 22       | 0.5016  | 0.0102 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.33E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |          |
| 23       | 0.53845 | 0.0102 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |          |
| 24       | 0.55059 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |          |
| 25       | 0.61064 | 0.0102 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.49E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 26       | 0.59517 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 27       | 0.54814 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 28       | 0.48705 | 0.0102 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 29       | 0.41251 | 0.0102 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.38E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 30       | 0.27062 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 31       | 0.24985 | 0.0102 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 32       | 0.20383 | 0.0102 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 33       | 0.19347 | 0.0102 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 34       | 0.16069 | 0.0102 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 35       | 0.14853 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 36       | 0.1328  | 0.0102 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 37       | 0.12553 | 0.0102 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 38       | 0.59038 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.27E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 39       | 0.53496 | 0.0102 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 40       | 0.57248 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 41       | 0.58509 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 42       | 0.61645 | 0.0102 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.55E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 43       | 0.63781 | 0.0102 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 44       | 0.60659 | 0.0102 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 45       | 0.53649 | 0.0102 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 46       | 0.4596  | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.88E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 47       | 0.41777 | 0.0102 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 48       | 0.3294  | 0.0102 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 49       | 0.28523 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.03E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 50       | 0.25804 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 51       | 0.23121 | 0.0102 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 52       | 0.18436 | 0.0102 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 53       | 0.16289 | 0.0102 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 54       | 0.14939 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 55       | 0.15235 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 56       | 0.55797 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 57       | 0.56885 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.04E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 58       | 0.58821 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.25E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 59       | 0.68345 | 0.0102 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 60       | 0.69254 | 0.0102 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.36E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 61       | 0.73699 | 0.0102 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.83E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 62       | 0.72167 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 63       | 0.62652 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 64       | 0.56525 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.00E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 65       | 0.46307 | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.92E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 66       | 0.46763 | 0.0102 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 67       | 0.32884 | 0.0102 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.49E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 68       | 0.29277 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 69       | 0.27065 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 70       | 0.26125 | 0.0102 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 71       | 0.20425 | 0.0102 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 72       | 0.1906  | 0.0102 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 73       | 0.22012 | 0.0102 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 74       | 0.62675 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 75       | 0.65056 | 0.0102 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 76       | 0.65456 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.95E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 77       | 0.73638 | 0.0102 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 78       | 0.8471  | 0.0102 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.00E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 79       | 0.88849 | 0.0102 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 80       | 0.90496 | 0.0102 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.61E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 81       | 0.82607 | 0.0102 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 82       | 0.70876 | 0.0102 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.53E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 83       | 0.59652 | 0.0102 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 84       | 0.67997 | 0.0102 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.22E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 85       | 0.34615 | 0.0102 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 86       | 0.31525 | 0.0102 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 87       | 0.30195 | 0.0102 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 88       | 0.28593 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.04E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 89       | 0.2696  | 0.0102 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 90       | 0.25777 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 91       | 0.7657  | 0.0102 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 92       | 0.78216 | 0.0102 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 93       | 0.89506 | 0.0102 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 94       | 0.94714 | 0.0102 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 95       | 1.04003 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 96       | 1.12421 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 97       | 1.04229 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 98       | 0.90305 | 0.0102 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 99       | 0.88258 | 0.0102 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 100      | 0.44117 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 101      | 0.36795 | 0.0102 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 102      | 0.34454 | 0.0102 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 103      | 0.32801 | 0.0102 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 104      | 0.30575 | 0.0102 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.25E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 105      | 0.27575 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 106      | 0.80913 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 107      | 0.83667 | 0.0102 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.89E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 108      | 0.94434 | 0.0102 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 109      | 0.98691 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 110      | 1.13153 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 111      | 1.3058  | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.39E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 112      | 1.41351 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 113      | 1.42196 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.51E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 114      | 1.36036 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 115      | 0.40925 | 0.0102 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 116      | 0.39445 | 0.0102 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 117      | 0.38313 | 0.0102 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 118      | 0.33537 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 119      | 0.28473 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 120      | 0.92954 | 0.0102 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 121      | 0.86551 | 0.0102 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 122      | 0.98739 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 123      | 1.16933 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.24E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 124      | 1.386   | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 125      | 1.58316 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 126      | 1.96907 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 127      | 2.35262 | 0.0102 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.50E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.20   |
| 128      | 0.65638 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 129      | 0.55176 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 130      | 0.46604 | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.95E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 131      | 0.38018 | 0.0102 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.04E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 132      | 0.26126 | 0.0102 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 133      | 0.85154 | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.04E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 134      | 1.07595 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 135      | 1.3543  | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 136      | 1.57548 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 137      | 1.93144 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 138      | 2.71283 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.23   |
| 139      | 5.71455 | 0.0102 | 5.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.07E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.49   |
| 140      | 0.67028 | 0.0102 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 141      | 0.52905 | 0.0102 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.62E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 142      | 0.43694 | 0.0102 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.64E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 143      | 0.29239 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 144      | 1.25505 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 145      | 1.65273 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 146      | 1.98418 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 147      | 2.64664 | 0.0102 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.81E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.23   |
| 148      | 3.89148 | 0.0102 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.13E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.33   |
| 149      | 3.51153 | 0.0102 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.73E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.30   |
| 150      | 2.03503 | 0.0102 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.16E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 151      | 1.50481 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.60E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 152      | 1.22329 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 153      | 0.70991 | 0.0102 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 154      | 0.58106 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 155      | 0.47279 | 0.0102 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 156      | 0.40353 | 0.0102 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 157      | 3.34251 | 0.0102 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.55E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.29   |
| 158      | 3.76257 | 0.0102 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.00E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.32   |
| 159      | 4.54045 | 0.0102 | 4.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.82E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.39   |
| 160      | 2.52972 | 0.0102 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.22   |
| 161      | 1.65138 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 162      | 1.21511 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 163      | 0.58478 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 164      | 0.51231 | 0.0102 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 165      | 0.43002 | 0.0102 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 166      | 5.34751 | 0.0102 | 5.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.68E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.46   |
| 167      | 2.93781 | 0.0102 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.12E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.25   |
| 168      | 2.01593 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 169      | 1.42521 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.51E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 170      | 1.08462 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 171      | 0.68161 | 0.0102 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.24E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 172      | 0.51579 | 0.0102 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 173      | 0.42776 | 0.0102 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 174      | 8.55485 | 0.0102 | 8.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.73   |
| 175      | 5.40053 | 0.0102 | 5.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.74E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.46   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 176      | 3.33391 | 0.0102 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.54E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.29   |
| 177      | 2.2635  | 0.0102 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.19   |
| 178      | 1.59628 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 179      | 1.15673 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 180      | 0.89425 | 0.0102 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 181      | 0.62061 | 0.0102 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 182      | 0.50601 | 0.0102 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 183      | 7.15077 | 0.0102 | 7.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.60E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.61   |
| 184      | 5.06388 | 0.0102 | 5.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.38E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.43   |
| 185      | 3.52857 | 0.0102 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.75E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.30   |
| 186      | 2.41297 | 0.0102 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.21   |
| 187      | 1.76478 | 0.0102 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.15   |
| 188      | 1.30975 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.39E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 189      | 1.01047 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 190      | 0.80384 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 191      | 8.32687 | 0.0102 | 8.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.84E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.71   |
| 192      | 6.02533 | 0.0102 | 6.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.40E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.52   |
| 193      | 4.45973 | 0.0102 | 4.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.74E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.38   |
| 194      | 3.33262 | 0.0102 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.54E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.29   |
| 195      | 2.46305 | 0.0102 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.62E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.21   |
| 196      | 1.84191 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 197      | 1.42077 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.51E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 198      | 1.08702 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 199      | 0.87584 | 0.0102 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 200      | 0.72192 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 201      | 3.24959 | 0.0102 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.45E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.28   |
| 202      | 4.95098 | 0.0102 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.26E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.43   |
| 203      | 5.8668  | 0.0102 | 6.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.50   |
| 204      | 6.38123 | 0.0102 | 6.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.78E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.55   |
| 205      | 5.89622 | 0.0102 | 6.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.26E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.51   |
| 206      | 4.88452 | 0.0102 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.42   |
| 207      | 3.92915 | 0.0102 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.17E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.34   |
| 208      | 3.09747 | 0.0102 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.29E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.27   |
| 209      | 2.38952 | 0.0102 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.54E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.21   |
| 210      | 1.86639 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 211      | 1.46676 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.56E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 212      | 1.14687 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 213      | 0.93847 | 0.0102 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 214      | 0.74904 | 0.0102 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 215      | 0.62804 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 216      | 1.51358 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 217      | 1.75108 | 0.0102 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.86E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.15   |
| 218      | 2.40965 | 0.0102 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.21   |
| 219      | 3.09162 | 0.0102 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.28E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.27   |
| 220      | 3.64843 | 0.0102 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.31   |
| 221      | 3.87704 | 0.0102 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.12E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.33   |
| 222      | 3.7245  | 0.0102 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.96E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.32   |
| 223      | 3.25928 | 0.0102 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.46E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.28   |
| 224      | 2.72345 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.23   |
| 225      | 2.20632 | 0.0102 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.19   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 226      | 1.77318 | 0.0102 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.15   |
| 227      | 1.44239 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 228      | 1.16513 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.24E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 229      | 0.94394 | 0.0102 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 230      | 0.77791 | 0.0102 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 231      | 0.62195 | 0.0102 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.61E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 232      | 1.05953 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 233      | 1.11661 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 234      | 1.47792 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 235      | 1.89467 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.01E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 236      | 2.31891 | 0.0102 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.20   |
| 237      | 2.71307 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.23   |
| 238      | 2.76677 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.94E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.24   |
| 239      | 2.56931 | 0.0102 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.73E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.22   |
| 240      | 2.2825  | 0.0102 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.42E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.20   |
| 241      | 1.93631 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 242      | 1.63045 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 243      | 1.35634 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 244      | 1.13547 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 245      | 0.91896 | 0.0102 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 246      | 0.77965 | 0.0102 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 247      | 0.63206 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 248      | 0.86538 | 0.0102 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 249      | 0.85659 | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.10E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 250      | 1.00342 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 251      | 1.28849 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 252      | 1.63636 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 253      | 1.90198 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.02E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 254      | 2.02634 | 0.0102 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 255      | 2.01179 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 256      | 1.88256 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.00E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 257      | 1.68205 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 258      | 1.46116 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 259      | 1.25462 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 260      | 1.07567 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 261      | 0.89369 | 0.0102 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.49E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 262      | 0.7632  | 0.0102 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 263      | 0.63167 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 264      | 0.58009 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 265      | 0.56073 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 266      | 0.57902 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 267      | 0.66488 | 0.0102 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 268      | 0.66061 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 269      | 0.74394 | 0.0102 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 270      | 0.92034 | 0.0102 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 271      | 1.1693  | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.24E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 272      | 1.38588 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 273      | 1.53028 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 274      | 1.58042 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 275      | 1.5324  | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 276      | 1.43091 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.52E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 277      | 1.28867 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 278      | 1.14049 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 279      | 1.0007  | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 280      | 0.85395 | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 281      | 0.7216  | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 282      | 0.60823 | 0.0102 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 283      | 0.46088 | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 284      | 0.44204 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 285      | 0.43325 | 0.0102 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.60E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 286      | 0.45841 | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 287      | 0.52307 | 0.0102 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 288      | 0.56987 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.05E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 289      | 0.59322 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 290      | 0.71744 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.62E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 291      | 0.87548 | 0.0102 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 292      | 1.04219 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 293      | 1.17605 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 294      | 1.25313 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 295      | 1.25792 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.34E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 296      | 1.21473 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 297      | 1.13348 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 298      | 1.02677 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 299      | 0.91652 | 0.0102 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 300      | 0.80208 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 301      | 0.6609  | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 302      | 0.58197 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 303      | 0.39159 | 0.0102 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 304      | 0.35914 | 0.0102 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 305      | 0.35529 | 0.0102 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 306      | 0.34386 | 0.0102 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 307      | 0.35356 | 0.0102 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 308      | 0.39073 | 0.0102 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 309      | 0.44141 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 310      | 0.47846 | 0.0102 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 311      | 0.56418 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.99E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 312      | 0.67741 | 0.0102 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 313      | 0.80426 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 314      | 0.92054 | 0.0102 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 315      | 1.00261 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 316      | 1.03928 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 317      | 1.02828 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 318      | 0.98264 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 319      | 0.91474 | 0.0102 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 320      | 0.82666 | 0.0102 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 321      | 0.74121 | 0.0102 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 322      | 0.6153  | 0.0102 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 323      | 0.55156 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 324      | 0.38105 | 0.0102 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.05E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 325      | 0.33126 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 326      | 0.32305 | 0.0102 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 327      | 0.29252 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 328      | 0.29248 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 329      | 0.317   | 0.0102 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 330      | 0.33066 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 331      | 0.35869 | 0.0102 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 332      | 0.40288 | 0.0102 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 333      | 0.4573  | 0.0102 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 334      | 0.53898 | 0.0102 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 335      | 0.63508 | 0.0102 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.75E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 336      | 0.73114 | 0.0102 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 337      | 0.80795 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.58E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 338      | 0.85925 | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 339      | 0.87375 | 0.0102 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 340      | 0.85425 | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 341      | 0.81269 | 0.0102 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 342      | 0.72959 | 0.0102 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.75E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 343      | 0.67174 | 0.0102 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.14E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 344      | 0.57305 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.09E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 345      | 0.51872 | 0.0102 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 346      | 0.29019 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 347      | 0.27864 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 348      | 0.26697 | 0.0102 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.84E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 349      | 0.25326 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 350      | 0.25562 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 351      | 0.2724  | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 352      | 0.28943 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 353      | 0.3067  | 0.0102 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 354      | 0.33648 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 355      | 0.3689  | 0.0102 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.92E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 356      | 0.44002 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 357      | 0.51306 | 0.0102 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.45E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 358      | 0.59206 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 359      | 0.66144 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.03E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 360      | 0.71417 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 361      | 0.73968 | 0.0102 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 362      | 0.74345 | 0.0102 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 363      | 0.71982 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 364      | 0.65107 | 0.0102 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.92E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 365      | 0.60983 | 0.0102 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 366      | 0.53056 | 0.0102 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.64E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 367      | 0.48574 | 0.0102 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 368      | 0.25159 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 369      | 0.24678 | 0.0102 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.62E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 370      | 0.23335 | 0.0102 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 371      | 0.21774 | 0.0102 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 372      | 0.22662 | 0.0102 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.41E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 373      | 0.22108 | 0.0102 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 374      | 0.24111 | 0.0102 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 375      | 0.25062 | 0.0102 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 376      | 0.27425 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 377      | 0.29662 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 378      | 0.31582 | 0.0102 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 379      | 0.36484 | 0.0102 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.88E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 380      | 0.40393 | 0.0102 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 381      | 0.48601 | 0.0102 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 382      | 0.5477  | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 383      | 0.59749 | 0.0102 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 384      | 0.62971 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 385      | 0.64012 | 0.0102 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.80E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 386      | 0.62903 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 387      | 0.5807  | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 388      | 0.55072 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 389      | 0.49043 | 0.0102 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 390      | 0.45288 | 0.0102 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 1.45E-03 | 5   | 2.90E-04 | 1.74E-02 |
| 2  | 1.36E-03 | 5   | 2.72E-04 |          |
| 3  | 1.24E-03 | 5   | 2.48E-04 |          |
| 4  | 1.15E-03 | 5   | 2.30E-04 |          |
| 5  | 1.05E-03 | 5   | 2.10E-04 |          |
| 6  | 9.75E-04 | 5   | 1.95E-04 |          |
| 7  | 1.84E-03 | 5   | 3.68E-04 |          |
| 8  | 1.69E-03 | 5   | 3.37E-04 |          |
| 9  | 1.48E-03 | 5   | 2.96E-04 |          |
| 10 | 1.38E-03 | 5   | 2.76E-04 |          |
| 11 | 1.21E-03 | 5   | 2.42E-04 |          |
| 12 | 1.14E-03 | 5   | 2.27E-04 |          |
| 13 | 1.07E-03 | 5   | 2.14E-04 |          |
| 14 | 2.02E-03 | 5   | 4.04E-04 |          |
| 15 | 1.88E-03 | 5   | 3.77E-04 |          |
| 16 | 1.69E-03 | 5   | 3.38E-04 |          |
| 17 | 1.49E-03 | 5   | 2.98E-04 |          |
| 18 | 1.35E-03 | 5   | 2.71E-04 |          |
| 19 | 1.23E-03 | 5   | 2.47E-04 |          |
| 20 | 1.15E-03 | 5   | 2.30E-04 |          |
| 21 | 4.45E-03 | 5   | 8.90E-04 |          |
| 22 | 5.10E-03 | 5   | 1.02E-03 |          |
| 23 | 5.47E-03 | 5   | 1.09E-03 |          |
| 24 | 5.60E-03 | 5   | 1.12E-03 |          |
| 25 | 6.21E-03 | 5   | 1.24E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 6.05E-03    | 5          | 1.21E-03  |
| 27       | 5.57E-03    | 5          | 1.11E-03  |
| 28       | 4.95E-03    | 5          | 9.90E-04  |
| 29       | 4.19E-03    | 5          | 8.38E-04  |
| 30       | 2.75E-03    | 5          | 5.50E-04  |
| 31       | 2.54E-03    | 5          | 5.08E-04  |
| 32       | 2.07E-03    | 5          | 4.14E-04  |
| 33       | 1.97E-03    | 5          | 3.93E-04  |
| 34       | 1.63E-03    | 5          | 3.27E-04  |
| 35       | 1.51E-03    | 5          | 3.02E-04  |
| 36       | 1.35E-03    | 5          | 2.70E-04  |
| 37       | 1.28E-03    | 5          | 2.55E-04  |
| 38       | 6.00E-03    | 5          | 1.20E-03  |
| 39       | 5.44E-03    | 5          | 1.09E-03  |
| 40       | 5.82E-03    | 5          | 1.16E-03  |
| 41       | 5.95E-03    | 5          | 1.19E-03  |
| 42       | 6.26E-03    | 5          | 1.25E-03  |
| 43       | 6.48E-03    | 5          | 1.30E-03  |
| 44       | 6.16E-03    | 5          | 1.23E-03  |
| 45       | 5.45E-03    | 5          | 1.09E-03  |
| 46       | 4.67E-03    | 5          | 9.34E-04  |
| 47       | 4.25E-03    | 5          | 8.49E-04  |
| 48       | 3.35E-03    | 5          | 6.70E-04  |
| 49       | 2.90E-03    | 5          | 5.80E-04  |
| 50       | 2.62E-03    | 5          | 5.24E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 2.35E-03    | 5          | 4.70E-04  |
| 52       | 1.87E-03    | 5          | 3.75E-04  |
| 53       | 1.66E-03    | 5          | 3.31E-04  |
| 54       | 1.52E-03    | 5          | 3.04E-04  |
| 55       | 1.55E-03    | 5          | 3.10E-04  |
| 56       | 5.67E-03    | 5          | 1.13E-03  |
| 57       | 5.78E-03    | 5          | 1.16E-03  |
| 58       | 5.98E-03    | 5          | 1.20E-03  |
| 59       | 6.95E-03    | 5          | 1.39E-03  |
| 60       | 7.04E-03    | 5          | 1.41E-03  |
| 61       | 7.49E-03    | 5          | 1.50E-03  |
| 62       | 7.33E-03    | 5          | 1.47E-03  |
| 63       | 6.37E-03    | 5          | 1.27E-03  |
| 64       | 5.74E-03    | 5          | 1.15E-03  |
| 65       | 4.71E-03    | 5          | 9.41E-04  |
| 66       | 4.75E-03    | 5          | 9.50E-04  |
| 67       | 3.34E-03    | 5          | 6.68E-04  |
| 68       | 2.98E-03    | 5          | 5.95E-04  |
| 69       | 2.75E-03    | 5          | 5.50E-04  |
| 70       | 2.65E-03    | 5          | 5.31E-04  |
| 71       | 2.08E-03    | 5          | 4.15E-04  |
| 72       | 1.94E-03    | 5          | 3.87E-04  |
| 73       | 2.24E-03    | 5          | 4.47E-04  |
| 74       | 6.37E-03    | 5          | 1.27E-03  |
| 75       | 6.61E-03    | 5          | 1.32E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 6.65E-03    | 5          | 1.33E-03  |
| 77       | 7.48E-03    | 5          | 1.50E-03  |
| 78       | 8.61E-03    | 5          | 1.72E-03  |
| 79       | 9.03E-03    | 5          | 1.81E-03  |
| 80       | 9.20E-03    | 5          | 1.84E-03  |
| 81       | 8.39E-03    | 5          | 1.68E-03  |
| 82       | 7.20E-03    | 5          | 1.44E-03  |
| 83       | 6.06E-03    | 5          | 1.21E-03  |
| 84       | 6.91E-03    | 5          | 1.38E-03  |
| 85       | 3.52E-03    | 5          | 7.04E-04  |
| 86       | 3.20E-03    | 5          | 6.41E-04  |
| 87       | 3.07E-03    | 5          | 6.14E-04  |
| 88       | 2.91E-03    | 5          | 5.81E-04  |
| 89       | 2.74E-03    | 5          | 5.48E-04  |
| 90       | 2.62E-03    | 5          | 5.24E-04  |
| 91       | 7.78E-03    | 5          | 1.56E-03  |
| 92       | 7.95E-03    | 5          | 1.59E-03  |
| 93       | 9.10E-03    | 5          | 1.82E-03  |
| 94       | 9.63E-03    | 5          | 1.93E-03  |
| 95       | 1.06E-02    | 5          | 2.11E-03  |
| 96       | 1.14E-02    | 5          | 2.28E-03  |
| 97       | 1.06E-02    | 5          | 2.12E-03  |
| 98       | 9.18E-03    | 5          | 1.84E-03  |
| 99       | 8.97E-03    | 5          | 1.79E-03  |
| 100      | 4.48E-03    | 5          | 8.97E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 3.74E-03 | 5   | 7.48E-04 |
| 102           | 3.50E-03 | 5   | 7.00E-04 |
| 103           | 3.33E-03 | 5   | 6.67E-04 |
| 104           | 3.11E-03 | 5   | 6.21E-04 |
| 105           | 2.80E-03 | 5   | 5.60E-04 |
| 106           | 8.22E-03 | 5   | 1.64E-03 |
| 107           | 8.50E-03 | 5   | 1.70E-03 |
| 108           | 9.60E-03 | 5   | 1.92E-03 |
| 109           | 1.00E-02 | 5   | 2.01E-03 |
| 110           | 1.15E-02 | 5   | 2.30E-03 |
| 111           | 1.33E-02 | 5   | 2.65E-03 |
| 112           | 1.44E-02 | 5   | 2.87E-03 |
| 113           | 1.45E-02 | 5   | 2.89E-03 |
| 114           | 1.38E-02 | 5   | 2.76E-03 |
| 115           | 4.16E-03 | 5   | 8.32E-04 |
| 116           | 4.01E-03 | 5   | 8.02E-04 |
| 117           | 3.89E-03 | 5   | 7.79E-04 |
| 118           | 3.41E-03 | 5   | 6.82E-04 |
| 119           | 2.89E-03 | 5   | 5.79E-04 |
| 120           | 9.45E-03 | 5   | 1.89E-03 |
| 121           | 8.80E-03 | 5   | 1.76E-03 |
| 122           | 1.00E-02 | 5   | 2.01E-03 |
| 123           | 1.19E-02 | 5   | 2.38E-03 |
| 124           | 1.41E-02 | 5   | 2.82E-03 |
| 125           | 1.61E-02 | 5   | 3.22E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 126      | 2.00E-02 | 5   | 4.00E-03 |
| 127      | 2.39E-02 | 5   | 4.78E-03 |
| 128      | 6.67E-03 | 5   | 1.33E-03 |
| 129      | 5.61E-03 | 5   | 1.12E-03 |
| 130      | 4.74E-03 | 5   | 9.47E-04 |
| 131      | 3.86E-03 | 5   | 7.73E-04 |
| 132      | 2.66E-03 | 5   | 5.31E-04 |
| 133      | 8.65E-03 | 5   | 1.73E-03 |
| 134      | 1.09E-02 | 5   | 2.19E-03 |
| 135      | 1.38E-02 | 5   | 2.75E-03 |
| 136      | 1.60E-02 | 5   | 3.20E-03 |
| 137      | 1.96E-02 | 5   | 3.93E-03 |
| 138      | 2.76E-02 | 5   | 5.51E-03 |
| 139      | 5.81E-02 | 5   | 1.16E-02 |
| 140      | 6.81E-03 | 5   | 1.36E-03 |
| 141      | 5.38E-03 | 5   | 1.08E-03 |
| 142      | 4.44E-03 | 5   | 8.88E-04 |
| 143      | 2.97E-03 | 5   | 5.94E-04 |
| 144      | 1.28E-02 | 5   | 2.55E-03 |
| 145      | 1.68E-02 | 5   | 3.36E-03 |
| 146      | 2.02E-02 | 5   | 4.03E-03 |
| 147      | 2.69E-02 | 5   | 5.38E-03 |
| 148      | 3.95E-02 | 5   | 7.91E-03 |
| 149      | 3.57E-02 | 5   | 7.14E-03 |
| 150      | 2.07E-02 | 5   | 4.14E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 1.53E-02 | 5   | 3.06E-03 |
| 152           | 1.24E-02 | 5   | 2.49E-03 |
| 153           | 7.21E-03 | 5   | 1.44E-03 |
| 154           | 5.90E-03 | 5   | 1.18E-03 |
| 155           | 4.80E-03 | 5   | 9.61E-04 |
| 156           | 4.10E-03 | 5   | 8.20E-04 |
| 157           | 3.40E-02 | 5   | 6.79E-03 |
| 158           | 3.82E-02 | 5   | 7.65E-03 |
| 159           | 4.61E-02 | 5   | 9.23E-03 |
| 160           | 2.57E-02 | 5   | 5.14E-03 |
| 161           | 1.68E-02 | 5   | 3.36E-03 |
| 162           | 1.23E-02 | 5   | 2.47E-03 |
| 163           | 5.94E-03 | 5   | 1.19E-03 |
| 164           | 5.21E-03 | 5   | 1.04E-03 |
| 165           | 4.37E-03 | 5   | 8.74E-04 |
| 166           | 5.43E-02 | 5   | 1.09E-02 |
| 167           | 2.99E-02 | 5   | 5.97E-03 |
| 168           | 2.05E-02 | 5   | 4.10E-03 |
| 169           | 1.45E-02 | 5   | 2.90E-03 |
| 170           | 1.10E-02 | 5   | 2.20E-03 |
| 171           | 6.93E-03 | 5   | 1.39E-03 |
| 172           | 5.24E-03 | 5   | 1.05E-03 |
| 173           | 4.35E-03 | 5   | 8.69E-04 |
| 174           | 8.69E-02 | 5   | 1.74E-02 |
| 175           | 5.49E-02 | 5   | 1.10E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 3.39E-02 | 5   | 6.78E-03 |
| 177           | 2.30E-02 | 5   | 4.60E-03 |
| 178           | 1.62E-02 | 5   | 3.24E-03 |
| 179           | 1.18E-02 | 5   | 2.35E-03 |
| 180           | 9.09E-03 | 5   | 1.82E-03 |
| 181           | 6.31E-03 | 5   | 1.26E-03 |
| 182           | 5.14E-03 | 5   | 1.03E-03 |
| 183           | 7.27E-02 | 5   | 1.45E-02 |
| 184           | 5.15E-02 | 5   | 1.03E-02 |
| 185           | 3.59E-02 | 5   | 7.17E-03 |
| 186           | 2.45E-02 | 5   | 4.90E-03 |
| 187           | 1.79E-02 | 5   | 3.59E-03 |
| 188           | 1.33E-02 | 5   | 2.66E-03 |
| 189           | 1.03E-02 | 5   | 2.05E-03 |
| 190           | 8.17E-03 | 5   | 1.63E-03 |
| 191           | 8.46E-02 | 5   | 1.69E-02 |
| 192           | 6.12E-02 | 5   | 1.22E-02 |
| 193           | 4.53E-02 | 5   | 9.06E-03 |
| 194           | 3.39E-02 | 5   | 6.77E-03 |
| 195           | 2.50E-02 | 5   | 5.01E-03 |
| 196           | 1.87E-02 | 5   | 3.74E-03 |
| 197           | 1.44E-02 | 5   | 2.89E-03 |
| 198           | 1.10E-02 | 5   | 2.21E-03 |
| 199           | 8.90E-03 | 5   | 1.78E-03 |
| 200           | 7.34E-03 | 5   | 1.47E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 201      | 3.30E-02 | 5   | 6.60E-03 |
| 202      | 5.03E-02 | 5   | 1.01E-02 |
| 203      | 5.96E-02 | 5   | 1.19E-02 |
| 204      | 6.48E-02 | 5   | 1.30E-02 |
| 205      | 5.99E-02 | 5   | 1.20E-02 |
| 206      | 4.96E-02 | 5   | 9.93E-03 |
| 207      | 3.99E-02 | 5   | 7.99E-03 |
| 208      | 3.15E-02 | 5   | 6.30E-03 |
| 209      | 2.43E-02 | 5   | 4.86E-03 |
| 210      | 1.90E-02 | 5   | 3.79E-03 |
| 211      | 1.49E-02 | 5   | 2.98E-03 |
| 212      | 1.17E-02 | 5   | 2.33E-03 |
| 213      | 9.54E-03 | 5   | 1.91E-03 |
| 214      | 7.61E-03 | 5   | 1.52E-03 |
| 215      | 6.38E-03 | 5   | 1.28E-03 |
| 216      | 1.54E-02 | 5   | 3.08E-03 |
| 217      | 1.78E-02 | 5   | 3.56E-03 |
| 218      | 2.45E-02 | 5   | 4.90E-03 |
| 219      | 3.14E-02 | 5   | 6.28E-03 |
| 220      | 3.71E-02 | 5   | 7.42E-03 |
| 221      | 3.94E-02 | 5   | 7.88E-03 |
| 222      | 3.78E-02 | 5   | 7.57E-03 |
| 223      | 3.31E-02 | 5   | 6.62E-03 |
| 224      | 2.77E-02 | 5   | 5.54E-03 |
| 225      | 2.24E-02 | 5   | 4.48E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 226           | 1.80E-02 | 5   | 3.60E-03 |
| 227           | 1.47E-02 | 5   | 2.93E-03 |
| 228           | 1.18E-02 | 5   | 2.37E-03 |
| 229           | 9.59E-03 | 5   | 1.92E-03 |
| 230           | 7.91E-03 | 5   | 1.58E-03 |
| 231           | 6.32E-03 | 5   | 1.26E-03 |
| 232           | 1.08E-02 | 5   | 2.15E-03 |
| 233           | 1.13E-02 | 5   | 2.27E-03 |
| 234           | 1.50E-02 | 5   | 3.00E-03 |
| 235           | 1.93E-02 | 5   | 3.85E-03 |
| 236           | 2.36E-02 | 5   | 4.71E-03 |
| 237           | 2.76E-02 | 5   | 5.51E-03 |
| 238           | 2.81E-02 | 5   | 5.62E-03 |
| 239           | 2.61E-02 | 5   | 5.22E-03 |
| 240           | 2.32E-02 | 5   | 4.64E-03 |
| 241           | 1.97E-02 | 5   | 3.94E-03 |
| 242           | 1.66E-02 | 5   | 3.31E-03 |
| 243           | 1.38E-02 | 5   | 2.76E-03 |
| 244           | 1.15E-02 | 5   | 2.31E-03 |
| 245           | 9.34E-03 | 5   | 1.87E-03 |
| 246           | 7.92E-03 | 5   | 1.58E-03 |
| 247           | 6.42E-03 | 5   | 1.28E-03 |
| 248           | 8.79E-03 | 5   | 1.76E-03 |
| 249           | 8.71E-03 | 5   | 1.74E-03 |
| 250           | 1.02E-02 | 5   | 2.04E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 1.31E-02 | 5   | 2.62E-03 |
| 252           | 1.66E-02 | 5   | 3.33E-03 |
| 253           | 1.93E-02 | 5   | 3.87E-03 |
| 254           | 2.06E-02 | 5   | 4.12E-03 |
| 255           | 2.04E-02 | 5   | 4.09E-03 |
| 256           | 1.91E-02 | 5   | 3.83E-03 |
| 257           | 1.71E-02 | 5   | 3.42E-03 |
| 258           | 1.48E-02 | 5   | 2.97E-03 |
| 259           | 1.27E-02 | 5   | 2.55E-03 |
| 260           | 1.09E-02 | 5   | 2.19E-03 |
| 261           | 9.08E-03 | 5   | 1.82E-03 |
| 262           | 7.76E-03 | 5   | 1.55E-03 |
| 263           | 6.42E-03 | 5   | 1.28E-03 |
| 264           | 5.90E-03 | 5   | 1.18E-03 |
| 265           | 5.70E-03 | 5   | 1.14E-03 |
| 266           | 5.88E-03 | 5   | 1.18E-03 |
| 267           | 6.76E-03 | 5   | 1.35E-03 |
| 268           | 6.71E-03 | 5   | 1.34E-03 |
| 269           | 7.56E-03 | 5   | 1.51E-03 |
| 270           | 9.35E-03 | 5   | 1.87E-03 |
| 271           | 1.19E-02 | 5   | 2.38E-03 |
| 272           | 1.41E-02 | 5   | 2.82E-03 |
| 273           | 1.56E-02 | 5   | 3.11E-03 |
| 274           | 1.61E-02 | 5   | 3.21E-03 |
| 275           | 1.56E-02 | 5   | 3.11E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 276      | 1.45E-02 | 5   | 2.91E-03 |
| 277      | 1.31E-02 | 5   | 2.62E-03 |
| 278      | 1.16E-02 | 5   | 2.32E-03 |
| 279      | 1.02E-02 | 5   | 2.03E-03 |
| 280      | 8.68E-03 | 5   | 1.74E-03 |
| 281      | 7.33E-03 | 5   | 1.47E-03 |
| 282      | 6.18E-03 | 5   | 1.24E-03 |
| 283      | 4.68E-03 | 5   | 9.37E-04 |
| 284      | 4.49E-03 | 5   | 8.98E-04 |
| 285      | 4.40E-03 | 5   | 8.81E-04 |
| 286      | 4.66E-03 | 5   | 9.32E-04 |
| 287      | 5.32E-03 | 5   | 1.06E-03 |
| 288      | 5.79E-03 | 5   | 1.16E-03 |
| 289      | 6.03E-03 | 5   | 1.21E-03 |
| 290      | 7.29E-03 | 5   | 1.46E-03 |
| 291      | 8.90E-03 | 5   | 1.78E-03 |
| 292      | 1.06E-02 | 5   | 2.12E-03 |
| 293      | 1.20E-02 | 5   | 2.39E-03 |
| 294      | 1.27E-02 | 5   | 2.55E-03 |
| 295      | 1.28E-02 | 5   | 2.56E-03 |
| 296      | 1.23E-02 | 5   | 2.47E-03 |
| 297      | 1.15E-02 | 5   | 2.30E-03 |
| 298      | 1.04E-02 | 5   | 2.09E-03 |
| 299      | 9.31E-03 | 5   | 1.86E-03 |
| 300      | 8.15E-03 | 5   | 1.63E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 301      | 6.72E-03 | 5   | 1.34E-03 |
| 302      | 5.91E-03 | 5   | 1.18E-03 |
| 303      | 3.98E-03 | 5   | 7.96E-04 |
| 304      | 3.65E-03 | 5   | 7.30E-04 |
| 305      | 3.61E-03 | 5   | 7.22E-04 |
| 306      | 3.49E-03 | 5   | 6.99E-04 |
| 307      | 3.59E-03 | 5   | 7.19E-04 |
| 308      | 3.97E-03 | 5   | 7.94E-04 |
| 309      | 4.49E-03 | 5   | 8.97E-04 |
| 310      | 4.86E-03 | 5   | 9.72E-04 |
| 311      | 5.73E-03 | 5   | 1.15E-03 |
| 312      | 6.88E-03 | 5   | 1.38E-03 |
| 313      | 8.17E-03 | 5   | 1.63E-03 |
| 314      | 9.35E-03 | 5   | 1.87E-03 |
| 315      | 1.02E-02 | 5   | 2.04E-03 |
| 316      | 1.06E-02 | 5   | 2.11E-03 |
| 317      | 1.04E-02 | 5   | 2.09E-03 |
| 318      | 9.99E-03 | 5   | 2.00E-03 |
| 319      | 9.30E-03 | 5   | 1.86E-03 |
| 320      | 8.40E-03 | 5   | 1.68E-03 |
| 321      | 7.53E-03 | 5   | 1.51E-03 |
| 322      | 6.25E-03 | 5   | 1.25E-03 |
| 323      | 5.61E-03 | 5   | 1.12E-03 |
| 324      | 3.87E-03 | 5   | 7.74E-04 |
| 325      | 3.37E-03 | 5   | 6.73E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 326           | 3.28E-03 | 5   | 6.57E-04 |
| 327           | 2.97E-03 | 5   | 5.95E-04 |
| 328           | 2.97E-03 | 5   | 5.94E-04 |
| 329           | 3.22E-03 | 5   | 6.44E-04 |
| 330           | 3.36E-03 | 5   | 6.72E-04 |
| 331           | 3.65E-03 | 5   | 7.29E-04 |
| 332           | 4.09E-03 | 5   | 8.19E-04 |
| 333           | 4.65E-03 | 5   | 9.29E-04 |
| 334           | 5.48E-03 | 5   | 1.10E-03 |
| 335           | 6.45E-03 | 5   | 1.29E-03 |
| 336           | 7.43E-03 | 5   | 1.49E-03 |
| 337           | 8.21E-03 | 5   | 1.64E-03 |
| 338           | 8.73E-03 | 5   | 1.75E-03 |
| 339           | 8.88E-03 | 5   | 1.78E-03 |
| 340           | 8.68E-03 | 5   | 1.74E-03 |
| 341           | 8.26E-03 | 5   | 1.65E-03 |
| 342           | 7.41E-03 | 5   | 1.48E-03 |
| 343           | 6.83E-03 | 5   | 1.37E-03 |
| 344           | 5.82E-03 | 5   | 1.16E-03 |
| 345           | 5.27E-03 | 5   | 1.05E-03 |
| 346           | 2.95E-03 | 5   | 5.90E-04 |
| 347           | 2.83E-03 | 5   | 5.66E-04 |
| 348           | 2.71E-03 | 5   | 5.43E-04 |
| 349           | 2.57E-03 | 5   | 5.15E-04 |
| 350           | 2.60E-03 | 5   | 5.20E-04 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 2.77E-03 | 5   | 5.54E-04 |
| 352           | 2.94E-03 | 5   | 5.88E-04 |
| 353           | 3.12E-03 | 5   | 6.23E-04 |
| 354           | 3.42E-03 | 5   | 6.84E-04 |
| 355           | 3.75E-03 | 5   | 7.50E-04 |
| 356           | 4.47E-03 | 5   | 8.94E-04 |
| 357           | 5.21E-03 | 5   | 1.04E-03 |
| 358           | 6.02E-03 | 5   | 1.20E-03 |
| 359           | 6.72E-03 | 5   | 1.34E-03 |
| 360           | 7.26E-03 | 5   | 1.45E-03 |
| 361           | 7.52E-03 | 5   | 1.50E-03 |
| 362           | 7.56E-03 | 5   | 1.51E-03 |
| 363           | 7.32E-03 | 5   | 1.46E-03 |
| 364           | 6.62E-03 | 5   | 1.32E-03 |
| 365           | 6.20E-03 | 5   | 1.24E-03 |
| 366           | 5.39E-03 | 5   | 1.08E-03 |
| 367           | 4.94E-03 | 5   | 9.87E-04 |
| 368           | 2.56E-03 | 5   | 5.11E-04 |
| 369           | 2.51E-03 | 5   | 5.02E-04 |
| 370           | 2.37E-03 | 5   | 4.74E-04 |
| 371           | 2.21E-03 | 5   | 4.43E-04 |
| 372           | 2.30E-03 | 5   | 4.61E-04 |
| 373           | 2.25E-03 | 5   | 4.49E-04 |
| 374           | 2.45E-03 | 5   | 4.90E-04 |
| 375           | 2.55E-03 | 5   | 5.09E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 2.79E-03    | 5          | 5.57E-04  |
| 377      | 3.01E-03    | 5          | 6.03E-04  |
| 378      | 3.21E-03    | 5          | 6.42E-04  |
| 379      | 3.71E-03    | 5          | 7.42E-04  |
| 380      | 4.10E-03    | 5          | 8.21E-04  |
| 381      | 4.94E-03    | 5          | 9.88E-04  |
| 382      | 5.57E-03    | 5          | 1.11E-03  |
| 383      | 6.07E-03    | 5          | 1.21E-03  |
| 384      | 6.40E-03    | 5          | 1.28E-03  |
| 385      | 6.51E-03    | 5          | 1.30E-03  |
| 386      | 6.39E-03    | 5          | 1.28E-03  |
| 387      | 5.90E-03    | 5          | 1.18E-03  |
| 388      | 5.60E-03    | 5          | 1.12E-03  |
| 389      | 4.98E-03    | 5          | 9.97E-04  |
| 390      | 4.60E-03    | 5          | 9.20E-04  |

**Risk Calculations - 3rd Trimester Start  
Construction Phase 3A**

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |          |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |          |
| 1        | 0.14257 | 0.0018 | 2.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.73E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-09  | 1.5E-03 | Max      |
| 2        | 0.13369 | 0.0018 | 2.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-09  | 1.4E-03 | 8.81E-02 |
| 3        | 0.12214 | 0.0018 | 2.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-09  | 1.3E-03 |          |
| 4        | 0.11318 | 0.0018 | 2.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.16E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-09  | 1.2E-03 |          |
| 5        | 0.10329 | 0.0018 | 1.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-09  | 1.1E-03 |          |
| 6        | 0.0959  | 0.0018 | 1.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 9.9E-10  | 9.9E-04 |          |
| 7        | 0.18122 | 0.0018 | 3.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.47E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-09  | 1.9E-03 |          |
| 8        | 0.16599 | 0.0018 | 3.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.17E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-09  | 1.7E-03 |          |
| 9        | 0.14564 | 0.0018 | 2.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.79E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-09  | 1.5E-03 |          |
| 10       | 0.13566 | 0.0018 | 2.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-09  | 1.4E-03 |          |
| 11       | 0.11905 | 0.0018 | 2.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.28E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-09  | 1.2E-03 |          |
| 12       | 0.11174 | 0.0018 | 2.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-09  | 1.2E-03 |          |
| 13       | 0.10516 | 0.0018 | 1.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.01E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-09  | 1.1E-03 |          |
| 14       | 0.19891 | 0.0018 | 3.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.80E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-09  | 2.0E-03 |          |
| 15       | 0.18538 | 0.0018 | 3.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.55E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-09  | 1.9E-03 |          |
| 16       | 0.16647 | 0.0018 | 3.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.18E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-09  | 1.7E-03 |          |
| 17       | 0.14661 | 0.0018 | 2.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-09  | 1.5E-03 |          |
| 18       | 0.13322 | 0.0018 | 2.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.55E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-09  | 1.4E-03 |          |
| 19       | 0.12149 | 0.0018 | 2.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.32E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-09  | 1.3E-03 |          |
| 20       | 0.11331 | 0.0018 | 2.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-09  | 1.2E-03 |          |
| 21       | 0.43801 | 0.0018 | 8.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.38E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09  | 4.5E-03 |          |
| 22       | 0.5016  | 0.0018 | 9.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-09  | 5.2E-03 |          |
| 23       | 0.53845 | 0.0018 | 9.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-09  | 5.5E-03 |          |
| 24       | 0.55059 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-09  | 5.7E-03 |          |
| 25       | 0.61064 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-09  | 6.3E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 26       | 0.59517 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09  | 6.1E-03 |
| 27       | 0.54814 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-09  | 5.6E-03 |
| 28       | 0.48705 | 0.0018 | 8.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.31E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-09  | 5.0E-03 |
| 29       | 0.41251 | 0.0018 | 7.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.89E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-09  | 4.3E-03 |
| 30       | 0.27062 | 0.0018 | 5.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.18E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09  | 2.8E-03 |
| 31       | 0.24985 | 0.0018 | 4.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.78E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-09  | 2.6E-03 |
| 32       | 0.20383 | 0.0018 | 3.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.90E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-09  | 2.1E-03 |
| 33       | 0.19347 | 0.0018 | 3.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.70E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-09  | 2.0E-03 |
| 34       | 0.16069 | 0.0018 | 2.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.07E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-09  | 1.7E-03 |
| 35       | 0.14853 | 0.0018 | 2.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.84E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-09  | 1.5E-03 |
| 36       | 0.1328  | 0.0018 | 2.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.54E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-09  | 1.4E-03 |
| 37       | 0.12553 | 0.0018 | 2.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-09  | 1.3E-03 |
| 38       | 0.59038 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09  | 6.1E-03 |
| 39       | 0.53496 | 0.0018 | 9.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-09  | 5.5E-03 |
| 40       | 0.57248 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-09  | 5.9E-03 |
| 41       | 0.58509 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09  | 6.0E-03 |
| 42       | 0.61645 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.4E-09  | 6.4E-03 |
| 43       | 0.63781 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.6E-09  | 6.6E-03 |
| 44       | 0.60659 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-09  | 6.3E-03 |
| 45       | 0.53649 | 0.0018 | 9.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-09  | 5.5E-03 |
| 46       | 0.4596  | 0.0018 | 8.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.79E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-09  | 4.7E-03 |
| 47       | 0.41777 | 0.0018 | 7.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.99E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-09  | 4.3E-03 |
| 48       | 0.3294  | 0.0018 | 6.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.30E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-09  | 3.4E-03 |
| 49       | 0.28523 | 0.0018 | 5.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.45E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-09  | 2.9E-03 |
| 50       | 0.25804 | 0.0018 | 4.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.93E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-09  | 2.7E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0-2) | (Risk/M ill) |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|------------|--------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH |            |              |
| 51       | 0.23121 | 0.0018 | 4.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.42E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-09    | 2.4E-03      |
| 52       | 0.18436 | 0.0018 | 3.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.53E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-09    | 1.9E-03      |
| 53       | 0.16289 | 0.0018 | 3.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.12E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-09    | 1.7E-03      |
| 54       | 0.14939 | 0.0018 | 2.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.86E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-09    | 1.5E-03      |
| 55       | 0.15235 | 0.0018 | 2.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-09    | 1.6E-03      |
| 56       | 0.55797 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-09    | 5.7E-03      |
| 57       | 0.56885 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-09    | 5.9E-03      |
| 58       | 0.58821 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09    | 6.1E-03      |
| 59       | 0.68345 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-09    | 7.0E-03      |
| 60       | 0.69254 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-09    | 7.1E-03      |
| 61       | 0.73699 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-09    | 7.6E-03      |
| 62       | 0.72167 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09    | 7.4E-03      |
| 63       | 0.62652 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09    | 6.5E-03      |
| 64       | 0.56525 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-09    | 5.8E-03      |
| 65       | 0.46307 | 0.0018 | 8.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.86E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.8E-09    | 4.8E-03      |
| 66       | 0.46763 | 0.0018 | 8.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.94E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.8E-09    | 4.8E-03      |
| 67       | 0.32884 | 0.0018 | 6.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.29E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-09    | 3.4E-03      |
| 68       | 0.29277 | 0.0018 | 5.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.60E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09    | 3.0E-03      |
| 69       | 0.27065 | 0.0018 | 5.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.18E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09    | 2.8E-03      |
| 70       | 0.26125 | 0.0018 | 4.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.00E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-09    | 2.7E-03      |
| 71       | 0.20425 | 0.0018 | 3.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.91E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-09    | 2.1E-03      |
| 72       | 0.1906  | 0.0018 | 3.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.65E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-09    | 2.0E-03      |
| 73       | 0.22012 | 0.0018 | 4.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.21E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-09    | 2.3E-03      |
| 74       | 0.62675 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09    | 6.5E-03      |
| 75       | 0.65056 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.24E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.7E-09    | 6.7E-03      |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0-2) | (Risk/M ill) |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|------------|--------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH |            |              |
| 76       | 0.65456 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.7E-09    | 6.7E-03      |
| 77       | 0.73638 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-09    | 7.6E-03      |
| 78       | 0.8471  | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.7E-09    | 8.7E-03      |
| 79       | 0.88849 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-09    | 9.2E-03      |
| 80       | 0.90496 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.3E-09    | 9.3E-03      |
| 81       | 0.82607 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.5E-09    | 8.5E-03      |
| 82       | 0.70876 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.3E-09    | 7.3E-03      |
| 83       | 0.59652 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09    | 6.1E-03      |
| 84       | 0.67997 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-09    | 7.0E-03      |
| 85       | 0.34615 | 0.0018 | 6.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.62E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-09    | 3.6E-03      |
| 86       | 0.31525 | 0.0018 | 5.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.03E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-09    | 3.2E-03      |
| 87       | 0.30195 | 0.0018 | 5.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.77E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.1E-09    | 3.1E-03      |
| 88       | 0.28593 | 0.0018 | 5.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.47E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-09    | 2.9E-03      |
| 89       | 0.2696  | 0.0018 | 4.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09    | 2.8E-03      |
| 90       | 0.25777 | 0.0018 | 4.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.93E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-09    | 2.7E-03      |
| 91       | 0.7657  | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.9E-09    | 7.9E-03      |
| 92       | 0.78216 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.1E-09    | 8.1E-03      |
| 93       | 0.89506 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-09    | 9.2E-03      |
| 94       | 0.94714 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.8E-09    | 9.8E-03      |
| 95       | 1.04003 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08    | 1.1E-02      |
| 96       | 1.12421 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.15E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08    | 1.2E-02      |
| 97       | 1.04229 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08    | 1.1E-02      |
| 98       | 0.90305 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.3E-09    | 9.3E-03      |
| 99       | 0.88258 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.1E-09    | 9.1E-03      |
| 100      | 0.44117 | 0.0018 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.44E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09    | 4.5E-03      |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 101      | 0.36795 | 0.0018 | 6.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.04E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-09  | 3.8E-03 |
| 102      | 0.34454 | 0.0018 | 6.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-09  | 3.6E-03 |
| 103      | 0.32801 | 0.0018 | 6.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.27E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-09  | 3.4E-03 |
| 104      | 0.30575 | 0.0018 | 5.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.85E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-09  | 3.2E-03 |
| 105      | 0.27575 | 0.0018 | 5.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.27E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09  | 2.8E-03 |
| 106      | 0.80913 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09  | 8.3E-03 |
| 107      | 0.83667 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.6E-09  | 8.6E-03 |
| 108      | 0.94434 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.7E-09  | 9.7E-03 |
| 109      | 0.98691 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |
| 110      | 1.13153 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 111      | 1.3058  | 0.0018 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.50E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08  | 1.3E-02 |
| 112      | 1.41351 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.70E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 113      | 1.42196 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 114      | 1.36036 | 0.0018 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08  | 1.4E-02 |
| 115      | 0.40925 | 0.0018 | 7.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.83E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-09  | 4.2E-03 |
| 116      | 0.39445 | 0.0018 | 7.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.54E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-09  | 4.1E-03 |
| 117      | 0.38313 | 0.0018 | 7.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.33E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-09  | 3.9E-03 |
| 118      | 0.33537 | 0.0018 | 6.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.41E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-09  | 3.5E-03 |
| 119      | 0.28473 | 0.0018 | 5.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.45E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-09  | 2.9E-03 |
| 120      | 0.92954 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.78E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.6E-09  | 9.6E-03 |
| 121      | 0.86551 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-09  | 8.9E-03 |
| 122      | 0.98739 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |
| 123      | 1.16933 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.24E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 124      | 1.386   | 0.0018 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.65E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08  | 1.4E-02 |
| 125      | 1.58316 | 0.0018 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08  | 1.6E-02 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 126      | 1.96907 | 0.0018 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.77E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08  | 2.0E-02 |
| 127      | 2.35262 | 0.0018 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08  | 2.4E-02 |
| 128      | 0.65638 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-09  | 6.8E-03 |
| 129      | 0.55176 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-09  | 5.7E-03 |
| 130      | 0.46604 | 0.0018 | 8.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.91E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.8E-09  | 4.8E-03 |
| 131      | 0.38018 | 0.0018 | 7.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.27E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-09  | 3.9E-03 |
| 132      | 0.26126 | 0.0018 | 4.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.00E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-09  | 2.7E-03 |
| 133      | 0.85154 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-09  | 8.8E-03 |
| 134      | 1.07595 | 0.0018 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 135      | 1.3543  | 0.0018 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.59E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08  | 1.4E-02 |
| 136      | 1.57548 | 0.0018 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.01E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08  | 1.6E-02 |
| 137      | 1.93144 | 0.0018 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08  | 2.0E-02 |
| 138      | 2.71283 | 0.0018 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.19E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08  | 2.8E-02 |
| 139      | 5.71455 | 0.0018 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-08  | 5.9E-02 |
| 140      | 0.67028 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.9E-09  | 6.9E-03 |
| 141      | 0.52905 | 0.0018 | 9.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-09  | 5.5E-03 |
| 142      | 0.43694 | 0.0018 | 8.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.36E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09  | 4.5E-03 |
| 143      | 0.29239 | 0.0018 | 5.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09  | 3.0E-03 |
| 144      | 1.25505 | 0.0018 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08  | 1.3E-02 |
| 145      | 1.65273 | 0.0018 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08  | 1.7E-02 |
| 146      | 1.98418 | 0.0018 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08  | 2.0E-02 |
| 147      | 2.64664 | 0.0018 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.06E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-08  | 2.7E-02 |
| 148      | 3.89148 | 0.0018 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.44E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08  | 4.0E-02 |
| 149      | 3.51153 | 0.0018 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08  | 3.6E-02 |
| 150      | 2.03503 | 0.0018 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08  | 2.1E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0-2) | (Risk/M ill) |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|------------|--------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH |            |              |
| 151      | 1.50481 | 0.0018 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08    | 1.6E-02      |
| 152      | 1.22329 | 0.0018 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 153      | 0.70991 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.3E-09    | 7.3E-03      |
| 154      | 0.58106 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09    | 6.0E-03      |
| 155      | 0.47279 | 0.0018 | 8.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.04E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.9E-09    | 4.9E-03      |
| 156      | 0.40353 | 0.0018 | 7.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.72E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-09    | 4.2E-03      |
| 157      | 3.34251 | 0.0018 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08    | 3.4E-02      |
| 158      | 3.76257 | 0.0018 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08    | 3.9E-02      |
| 159      | 4.54045 | 0.0018 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-08    | 4.7E-02      |
| 160      | 2.52972 | 0.0018 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.84E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-08    | 2.6E-02      |
| 161      | 1.65138 | 0.0018 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08    | 1.7E-02      |
| 162      | 1.21511 | 0.0018 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 163      | 0.58478 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09    | 6.0E-03      |
| 164      | 0.51231 | 0.0018 | 9.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.80E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-09    | 5.3E-03      |
| 165      | 0.43002 | 0.0018 | 7.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.22E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.4E-09    | 4.4E-03      |
| 166      | 5.34751 | 0.0018 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-08    | 5.5E-02      |
| 167      | 2.93781 | 0.0018 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.62E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08    | 3.0E-02      |
| 168      | 2.01593 | 0.0018 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08    | 2.1E-02      |
| 169      | 1.42521 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08    | 1.5E-02      |
| 170      | 1.08462 | 0.0018 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.07E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08    | 1.1E-02      |
| 171      | 0.68161 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-09    | 7.0E-03      |
| 172      | 0.51579 | 0.0018 | 9.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.86E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-09    | 5.3E-03      |
| 173      | 0.42776 | 0.0018 | 7.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.18E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.4E-09    | 4.4E-03      |
| 174      | 8.55485 | 0.0018 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-08    | 8.8E-02      |
| 175      | 5.40053 | 0.0018 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08    | 5.6E-02      |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 176      | 3.33391 | 0.0018 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 177      | 2.2635  | 0.0018 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-08  | 2.3E-02 |
| 178      | 1.59628 | 0.0018 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08  | 1.6E-02 |
| 179      | 1.15673 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 180      | 0.89425 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-09  | 9.2E-03 |
| 181      | 0.62061 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.4E-09  | 6.4E-03 |
| 182      | 0.50601 | 0.0018 | 9.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.68E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-09  | 5.2E-03 |
| 183      | 7.15077 | 0.0018 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-08  | 7.4E-02 |
| 184      | 5.06388 | 0.0018 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-08  | 5.2E-02 |
| 185      | 3.52857 | 0.0018 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08  | 3.6E-02 |
| 186      | 2.41297 | 0.0018 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.61E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 187      | 1.76478 | 0.0018 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08  | 1.8E-02 |
| 188      | 1.30975 | 0.0018 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.50E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08  | 1.3E-02 |
| 189      | 1.01047 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |
| 190      | 0.80384 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.54E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09  | 8.3E-03 |
| 191      | 8.32687 | 0.0018 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.59E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.6E-08  | 8.6E-02 |
| 192      | 6.02533 | 0.0018 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.2E-08  | 6.2E-02 |
| 193      | 4.45973 | 0.0018 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.53E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08  | 4.6E-02 |
| 194      | 3.33262 | 0.0018 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 195      | 2.46305 | 0.0018 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 196      | 1.84191 | 0.0018 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.52E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08  | 1.9E-02 |
| 197      | 1.42077 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 198      | 1.08702 | 0.0018 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 199      | 0.87584 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.0E-09  | 9.0E-03 |
| 200      | 0.72192 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09  | 7.4E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0-2) | (Risk/M ill) |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|------------|--------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH |            |              |
| 201      | 3.24959 | 0.0018 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-08    | 3.3E-02      |
| 202      | 4.95098 | 0.0018 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.47E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.1E-08    | 5.1E-02      |
| 203      | 5.8668  | 0.0018 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-08    | 6.0E-02      |
| 204      | 6.38123 | 0.0018 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.6E-08    | 6.6E-02      |
| 205      | 5.89622 | 0.0018 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-08    | 6.1E-02      |
| 206      | 4.88452 | 0.0018 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.34E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-08    | 5.0E-02      |
| 207      | 3.92915 | 0.0018 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.51E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08    | 4.0E-02      |
| 208      | 3.09747 | 0.0018 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08    | 3.2E-02      |
| 209      | 2.38952 | 0.0018 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.57E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08    | 2.5E-02      |
| 210      | 1.86639 | 0.0018 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.57E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08    | 1.9E-02      |
| 211      | 1.46676 | 0.0018 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08    | 1.5E-02      |
| 212      | 1.14687 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.19E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08    | 1.2E-02      |
| 213      | 0.93847 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.7E-09    | 9.7E-03      |
| 214      | 0.74904 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.7E-09    | 7.7E-03      |
| 215      | 0.62804 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09    | 6.5E-03      |
| 216      | 1.51358 | 0.0018 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08    | 1.6E-02      |
| 217      | 1.75108 | 0.0018 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.35E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08    | 1.8E-02      |
| 218      | 2.40965 | 0.0018 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.61E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08    | 2.5E-02      |
| 219      | 3.09162 | 0.0018 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08    | 3.2E-02      |
| 220      | 3.64843 | 0.0018 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.98E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08    | 3.8E-02      |
| 221      | 3.87704 | 0.0018 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08    | 4.0E-02      |
| 222      | 3.7245  | 0.0018 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08    | 3.8E-02      |
| 223      | 3.25928 | 0.0018 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08    | 3.4E-02      |
| 224      | 2.72345 | 0.0018 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08    | 2.8E-02      |
| 225      | 2.20632 | 0.0018 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-08    | 2.3E-02      |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 226      | 1.77318 | 0.0018 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08  | 1.8E-02 |
| 227      | 1.44239 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.76E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 228      | 1.16513 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 229      | 0.94394 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.7E-09  | 9.7E-03 |
| 230      | 0.77791 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.49E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.0E-09  | 8.0E-03 |
| 231      | 0.62195 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.4E-09  | 6.4E-03 |
| 232      | 1.05953 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 233      | 1.11661 | 0.0018 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 234      | 1.47792 | 0.0018 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.83E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 235      | 1.89467 | 0.0018 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.62E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08  | 2.0E-02 |
| 236      | 2.31891 | 0.0018 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08  | 2.4E-02 |
| 237      | 2.71307 | 0.0018 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.19E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08  | 2.8E-02 |
| 238      | 2.76677 | 0.0018 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.29E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08  | 2.9E-02 |
| 239      | 2.56931 | 0.0018 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-08  | 2.6E-02 |
| 240      | 2.2825  | 0.0018 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08  | 2.4E-02 |
| 241      | 1.93631 | 0.0018 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.70E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08  | 2.0E-02 |
| 242      | 1.63045 | 0.0018 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08  | 1.7E-02 |
| 243      | 1.35634 | 0.0018 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.59E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08  | 1.4E-02 |
| 244      | 1.13547 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 245      | 0.91896 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.5E-09  | 9.5E-03 |
| 246      | 0.77965 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.49E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.0E-09  | 8.0E-03 |
| 247      | 0.63206 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09  | 6.5E-03 |
| 248      | 0.86538 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-09  | 8.9E-03 |
| 249      | 0.85659 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-09  | 8.8E-03 |
| 250      | 1.00342 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 251      | 1.28849 | 0.0018 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08  | 1.3E-02 |
| 252      | 1.63636 | 0.0018 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08  | 1.7E-02 |
| 253      | 1.90198 | 0.0018 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08  | 2.0E-02 |
| 254      | 2.02634 | 0.0018 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08  | 2.1E-02 |
| 255      | 2.01179 | 0.0018 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.85E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08  | 2.1E-02 |
| 256      | 1.88256 | 0.0018 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08  | 1.9E-02 |
| 257      | 1.68205 | 0.0018 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08  | 1.7E-02 |
| 258      | 1.46116 | 0.0018 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 259      | 1.25462 | 0.0018 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08  | 1.3E-02 |
| 260      | 1.07567 | 0.0018 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 261      | 0.89369 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-09  | 9.2E-03 |
| 262      | 0.7632  | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.9E-09  | 7.9E-03 |
| 263      | 0.63167 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09  | 6.5E-03 |
| 264      | 0.58009 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09  | 6.0E-03 |
| 265      | 0.56073 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-09  | 5.8E-03 |
| 266      | 0.57902 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09  | 6.0E-03 |
| 267      | 0.66488 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.9E-09  | 6.9E-03 |
| 268      | 0.66061 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-09  | 6.8E-03 |
| 269      | 0.74394 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.7E-09  | 7.7E-03 |
| 270      | 0.92034 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.5E-09  | 9.5E-03 |
| 271      | 1.1693  | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.24E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 272      | 1.38588 | 0.0018 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.65E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08  | 1.4E-02 |
| 273      | 1.53028 | 0.0018 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08  | 1.6E-02 |
| 274      | 1.58042 | 0.0018 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08  | 1.6E-02 |
| 275      | 1.5324  | 0.0018 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08  | 1.6E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0-2) | (Risk/M ill) |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|------------|--------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH |            |              |
| 276      | 1.43091 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.74E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08    | 1.5E-02      |
| 277      | 1.28867 | 0.0018 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 278      | 1.14049 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.18E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08    | 1.2E-02      |
| 279      | 1.0007  | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08    | 1.0E-02      |
| 280      | 0.85395 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-09    | 8.8E-03      |
| 281      | 0.7216  | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09    | 7.4E-03      |
| 282      | 0.60823 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-09    | 6.3E-03      |
| 283      | 0.46088 | 0.0018 | 8.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.81E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-09    | 4.7E-03      |
| 284      | 0.44204 | 0.0018 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.45E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-09    | 4.6E-03      |
| 285      | 0.43325 | 0.0018 | 7.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.29E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09    | 4.5E-03      |
| 286      | 0.45841 | 0.0018 | 8.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.77E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-09    | 4.7E-03      |
| 287      | 0.52307 | 0.0018 | 9.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.4E-09    | 5.4E-03      |
| 288      | 0.56987 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-09    | 5.9E-03      |
| 289      | 0.59322 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09    | 6.1E-03      |
| 290      | 0.71744 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09    | 7.4E-03      |
| 291      | 0.87548 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.0E-09    | 9.0E-03      |
| 292      | 1.04219 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08    | 1.1E-02      |
| 293      | 1.17605 | 0.0018 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08    | 1.2E-02      |
| 294      | 1.25313 | 0.0018 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 295      | 1.25792 | 0.0018 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 296      | 1.21473 | 0.0018 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 297      | 1.13348 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08    | 1.2E-02      |
| 298      | 1.02677 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08    | 1.1E-02      |
| 299      | 0.91652 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.4E-09    | 9.4E-03      |
| 300      | 0.80208 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09    | 8.3E-03      |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 301      | 0.6609  | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-09  | 6.8E-03 |
| 302      | 0.58197 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09  | 6.0E-03 |
| 303      | 0.39159 | 0.0018 | 7.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.49E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-09  | 4.0E-03 |
| 304      | 0.35914 | 0.0018 | 6.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.87E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-09  | 3.7E-03 |
| 305      | 0.35529 | 0.0018 | 6.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.79E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-09  | 3.7E-03 |
| 306      | 0.34386 | 0.0018 | 6.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.58E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-09  | 3.5E-03 |
| 307      | 0.35356 | 0.0018 | 6.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.76E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-09  | 3.6E-03 |
| 308      | 0.39073 | 0.0018 | 7.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.47E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-09  | 4.0E-03 |
| 309      | 0.44141 | 0.0018 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.44E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09  | 4.5E-03 |
| 310      | 0.47846 | 0.0018 | 8.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.15E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.9E-09  | 4.9E-03 |
| 311      | 0.56418 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-09  | 5.8E-03 |
| 312      | 0.67741 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-09  | 7.0E-03 |
| 313      | 0.80426 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.54E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09  | 8.3E-03 |
| 314      | 0.92054 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.5E-09  | 9.5E-03 |
| 315      | 1.00261 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |
| 316      | 1.03928 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 317      | 1.02828 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.97E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 318      | 0.98264 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |
| 319      | 0.91474 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.4E-09  | 9.4E-03 |
| 320      | 0.82666 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.5E-09  | 8.5E-03 |
| 321      | 0.74121 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-09  | 7.6E-03 |
| 322      | 0.6153  | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-09  | 6.3E-03 |
| 323      | 0.55156 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-09  | 5.7E-03 |
| 324      | 0.38105 | 0.0018 | 7.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.29E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-09  | 3.9E-03 |
| 325      | 0.33126 | 0.0018 | 6.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.34E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-09  | 3.4E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0-2) | (Risk/M ill) |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|------------|--------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH |            |              |
| 326      | 0.32305 | 0.0018 | 5.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-09    | 3.3E-03      |
| 327      | 0.29252 | 0.0018 | 5.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09    | 3.0E-03      |
| 328      | 0.29248 | 0.0018 | 5.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09    | 3.0E-03      |
| 329      | 0.317   | 0.0018 | 5.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.06E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-09    | 3.3E-03      |
| 330      | 0.33066 | 0.0018 | 6.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.32E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-09    | 3.4E-03      |
| 331      | 0.35869 | 0.0018 | 6.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.86E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-09    | 3.7E-03      |
| 332      | 0.40288 | 0.0018 | 7.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.71E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-09    | 4.2E-03      |
| 333      | 0.4573  | 0.0018 | 8.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.75E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-09    | 4.7E-03      |
| 334      | 0.53898 | 0.0018 | 9.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-09    | 5.6E-03      |
| 335      | 0.63508 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09    | 6.5E-03      |
| 336      | 0.73114 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.5E-09    | 7.5E-03      |
| 337      | 0.80795 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09    | 8.3E-03      |
| 338      | 0.85925 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-09    | 8.9E-03      |
| 339      | 0.87375 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.0E-09    | 9.0E-03      |
| 340      | 0.85425 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-09    | 8.8E-03      |
| 341      | 0.81269 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.4E-09    | 8.4E-03      |
| 342      | 0.72959 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.5E-09    | 7.5E-03      |
| 343      | 0.67174 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.9E-09    | 6.9E-03      |
| 344      | 0.57305 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-09    | 5.9E-03      |
| 345      | 0.51872 | 0.0018 | 9.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.92E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-09    | 5.3E-03      |
| 346      | 0.29019 | 0.0018 | 5.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.55E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09    | 3.0E-03      |
| 347      | 0.27864 | 0.0018 | 5.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.33E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-09    | 2.9E-03      |
| 348      | 0.26697 | 0.0018 | 4.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.11E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09    | 2.8E-03      |
| 349      | 0.25326 | 0.0018 | 4.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.84E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-09    | 2.6E-03      |
| 350      | 0.25562 | 0.0018 | 4.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.89E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-09    | 2.6E-03      |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 351      | 0.2724  | 0.0018 | 5.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.21E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09  | 2.8E-03 |
| 352      | 0.28943 | 0.0018 | 5.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.54E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09  | 3.0E-03 |
| 353      | 0.3067  | 0.0018 | 5.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.87E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-09  | 3.2E-03 |
| 354      | 0.33648 | 0.0018 | 6.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.44E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-09  | 3.5E-03 |
| 355      | 0.3689  | 0.0018 | 6.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.06E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-09  | 3.8E-03 |
| 356      | 0.44002 | 0.0018 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.42E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09  | 4.5E-03 |
| 357      | 0.51306 | 0.0018 | 9.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.81E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-09  | 5.3E-03 |
| 358      | 0.59206 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09  | 6.1E-03 |
| 359      | 0.66144 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-09  | 6.8E-03 |
| 360      | 0.71417 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09  | 7.4E-03 |
| 361      | 0.73968 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-09  | 7.6E-03 |
| 362      | 0.74345 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.7E-09  | 7.7E-03 |
| 363      | 0.71982 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09  | 7.4E-03 |
| 364      | 0.65107 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.7E-09  | 6.7E-03 |
| 365      | 0.60983 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-09  | 6.3E-03 |
| 366      | 0.53056 | 0.0018 | 9.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-09  | 5.5E-03 |
| 367      | 0.48574 | 0.0018 | 8.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.29E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-09  | 5.0E-03 |
| 368      | 0.25159 | 0.0018 | 4.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.81E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-09  | 2.6E-03 |
| 369      | 0.24678 | 0.0018 | 4.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.72E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-09  | 2.5E-03 |
| 370      | 0.23335 | 0.0018 | 4.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.46E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-09  | 2.4E-03 |
| 371      | 0.21774 | 0.0018 | 4.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.16E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-09  | 2.2E-03 |
| 372      | 0.22662 | 0.0018 | 4.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.33E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-09  | 2.3E-03 |
| 373      | 0.22108 | 0.0018 | 4.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-09  | 2.3E-03 |
| 374      | 0.24111 | 0.0018 | 4.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.61E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-09  | 2.5E-03 |
| 375      | 0.25062 | 0.0018 | 4.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.79E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-09  | 2.6E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- (Risk/M |         |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|------------------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)               | ill)    |
| 376      | 0.27425 | 0.0018 | 5.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.24E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09          | 2.8E-03 |
| 377      | 0.29662 | 0.0018 | 5.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.67E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.1E-09          | 3.1E-03 |
| 378      | 0.31582 | 0.0018 | 5.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.04E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-09          | 3.3E-03 |
| 379      | 0.36484 | 0.0018 | 6.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.98E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-09          | 3.8E-03 |
| 380      | 0.40393 | 0.0018 | 7.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.73E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-09          | 4.2E-03 |
| 381      | 0.48601 | 0.0018 | 8.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.29E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-09          | 5.0E-03 |
| 382      | 0.5477  | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-09          | 5.6E-03 |
| 383      | 0.59749 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.2E-09          | 6.2E-03 |
| 384      | 0.62971 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09          | 6.5E-03 |
| 385      | 0.64012 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.6E-09          | 6.6E-03 |
| 386      | 0.62903 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09          | 6.5E-03 |
| 387      | 0.5807  | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09          | 6.0E-03 |
| 388      | 0.55072 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-09          | 5.7E-03 |
| 389      | 0.49043 | 0.0018 | 9.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.38E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.1E-09          | 5.1E-03 |
| 390      | 0.45288 | 0.0018 | 8.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.66E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-09          | 4.7E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 2.61E-04 | 5   | 5.22E-05 | 3.13E-03 |
| 2  | 2.45E-04 | 5   | 4.89E-05 |          |
| 3  | 2.23E-04 | 5   | 4.47E-05 |          |
| 4  | 2.07E-04 | 5   | 4.14E-05 |          |
| 5  | 1.89E-04 | 5   | 3.78E-05 |          |
| 6  | 1.75E-04 | 5   | 3.51E-05 |          |
| 7  | 3.32E-04 | 5   | 6.63E-05 |          |
| 8  | 3.04E-04 | 5   | 6.07E-05 |          |
| 9  | 2.66E-04 | 5   | 5.33E-05 |          |
| 10 | 2.48E-04 | 5   | 4.96E-05 |          |
| 11 | 2.18E-04 | 5   | 4.36E-05 |          |
| 12 | 2.04E-04 | 5   | 4.09E-05 |          |
| 13 | 1.92E-04 | 5   | 3.85E-05 |          |
| 14 | 3.64E-04 | 5   | 7.28E-05 |          |
| 15 | 3.39E-04 | 5   | 6.78E-05 |          |
| 16 | 3.05E-04 | 5   | 6.09E-05 |          |
| 17 | 2.68E-04 | 5   | 5.37E-05 |          |
| 18 | 2.44E-04 | 5   | 4.88E-05 |          |
| 19 | 2.22E-04 | 5   | 4.45E-05 |          |
| 20 | 2.07E-04 | 5   | 4.15E-05 |          |
| 21 | 8.01E-04 | 5   | 1.60E-04 |          |
| 22 | 9.18E-04 | 5   | 1.84E-04 |          |
| 23 | 9.85E-04 | 5   | 1.97E-04 |          |
| 24 | 1.01E-03 | 5   | 2.01E-04 |          |
| 25 | 1.12E-03 | 5   | 2.23E-04 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 1.09E-03    | 5          | 2.18E-04  |
| 27       | 1.00E-03    | 5          | 2.01E-04  |
| 28       | 8.91E-04    | 5          | 1.78E-04  |
| 29       | 7.55E-04    | 5          | 1.51E-04  |
| 30       | 4.95E-04    | 5          | 9.90E-05  |
| 31       | 4.57E-04    | 5          | 9.14E-05  |
| 32       | 3.73E-04    | 5          | 7.46E-05  |
| 33       | 3.54E-04    | 5          | 7.08E-05  |
| 34       | 2.94E-04    | 5          | 5.88E-05  |
| 35       | 2.72E-04    | 5          | 5.44E-05  |
| 36       | 2.43E-04    | 5          | 4.86E-05  |
| 37       | 2.30E-04    | 5          | 4.59E-05  |
| 38       | 1.08E-03    | 5          | 2.16E-04  |
| 39       | 9.79E-04    | 5          | 1.96E-04  |
| 40       | 1.05E-03    | 5          | 2.10E-04  |
| 41       | 1.07E-03    | 5          | 2.14E-04  |
| 42       | 1.13E-03    | 5          | 2.26E-04  |
| 43       | 1.17E-03    | 5          | 2.33E-04  |
| 44       | 1.11E-03    | 5          | 2.22E-04  |
| 45       | 9.82E-04    | 5          | 1.96E-04  |
| 46       | 8.41E-04    | 5          | 1.68E-04  |
| 47       | 7.64E-04    | 5          | 1.53E-04  |
| 48       | 6.03E-04    | 5          | 1.21E-04  |
| 49       | 5.22E-04    | 5          | 1.04E-04  |
| 50       | 4.72E-04    | 5          | 9.44E-05  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 4.23E-04    | 5          | 8.46E-05  |
| 52       | 3.37E-04    | 5          | 6.75E-05  |
| 53       | 2.98E-04    | 5          | 5.96E-05  |
| 54       | 2.73E-04    | 5          | 5.47E-05  |
| 55       | 2.79E-04    | 5          | 5.58E-05  |
| 56       | 1.02E-03    | 5          | 2.04E-04  |
| 57       | 1.04E-03    | 5          | 2.08E-04  |
| 58       | 1.08E-03    | 5          | 2.15E-04  |
| 59       | 1.25E-03    | 5          | 2.50E-04  |
| 60       | 1.27E-03    | 5          | 2.53E-04  |
| 61       | 1.35E-03    | 5          | 2.70E-04  |
| 62       | 1.32E-03    | 5          | 2.64E-04  |
| 63       | 1.15E-03    | 5          | 2.29E-04  |
| 64       | 1.03E-03    | 5          | 2.07E-04  |
| 65       | 8.47E-04    | 5          | 1.69E-04  |
| 66       | 8.56E-04    | 5          | 1.71E-04  |
| 67       | 6.02E-04    | 5          | 1.20E-04  |
| 68       | 5.36E-04    | 5          | 1.07E-04  |
| 69       | 4.95E-04    | 5          | 9.90E-05  |
| 70       | 4.78E-04    | 5          | 9.56E-05  |
| 71       | 3.74E-04    | 5          | 7.47E-05  |
| 72       | 3.49E-04    | 5          | 6.98E-05  |
| 73       | 4.03E-04    | 5          | 8.06E-05  |
| 74       | 1.15E-03    | 5          | 2.29E-04  |
| 75       | 1.19E-03    | 5          | 2.38E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 1.20E-03    | 5          | 2.40E-04  |
| 77       | 1.35E-03    | 5          | 2.69E-04  |
| 78       | 1.55E-03    | 5          | 3.10E-04  |
| 79       | 1.63E-03    | 5          | 3.25E-04  |
| 80       | 1.66E-03    | 5          | 3.31E-04  |
| 81       | 1.51E-03    | 5          | 3.02E-04  |
| 82       | 1.30E-03    | 5          | 2.59E-04  |
| 83       | 1.09E-03    | 5          | 2.18E-04  |
| 84       | 1.24E-03    | 5          | 2.49E-04  |
| 85       | 6.33E-04    | 5          | 1.27E-04  |
| 86       | 5.77E-04    | 5          | 1.15E-04  |
| 87       | 5.52E-04    | 5          | 1.10E-04  |
| 88       | 5.23E-04    | 5          | 1.05E-04  |
| 89       | 4.93E-04    | 5          | 9.87E-05  |
| 90       | 4.72E-04    | 5          | 9.43E-05  |
| 91       | 1.40E-03    | 5          | 2.80E-04  |
| 92       | 1.43E-03    | 5          | 2.86E-04  |
| 93       | 1.64E-03    | 5          | 3.28E-04  |
| 94       | 1.73E-03    | 5          | 3.47E-04  |
| 95       | 1.90E-03    | 5          | 3.81E-04  |
| 96       | 2.06E-03    | 5          | 4.11E-04  |
| 97       | 1.91E-03    | 5          | 3.81E-04  |
| 98       | 1.65E-03    | 5          | 3.30E-04  |
| 99       | 1.61E-03    | 5          | 3.23E-04  |
| 100      | 8.07E-04    | 5          | 1.61E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 101      | 6.73E-04    | 5          | 1.35E-04  |
| 102      | 6.30E-04    | 5          | 1.26E-04  |
| 103      | 6.00E-04    | 5          | 1.20E-04  |
| 104      | 5.59E-04    | 5          | 1.12E-04  |
| 105      | 5.05E-04    | 5          | 1.01E-04  |
| 106      | 1.48E-03    | 5          | 2.96E-04  |
| 107      | 1.53E-03    | 5          | 3.06E-04  |
| 108      | 1.73E-03    | 5          | 3.46E-04  |
| 109      | 1.81E-03    | 5          | 3.61E-04  |
| 110      | 2.07E-03    | 5          | 4.14E-04  |
| 111      | 2.39E-03    | 5          | 4.78E-04  |
| 112      | 2.59E-03    | 5          | 5.17E-04  |
| 113      | 2.60E-03    | 5          | 5.20E-04  |
| 114      | 2.49E-03    | 5          | 4.98E-04  |
| 115      | 7.49E-04    | 5          | 1.50E-04  |
| 116      | 7.22E-04    | 5          | 1.44E-04  |
| 117      | 7.01E-04    | 5          | 1.40E-04  |
| 118      | 6.14E-04    | 5          | 1.23E-04  |
| 119      | 5.21E-04    | 5          | 1.04E-04  |
| 120      | 1.70E-03    | 5          | 3.40E-04  |
| 121      | 1.58E-03    | 5          | 3.17E-04  |
| 122      | 1.81E-03    | 5          | 3.61E-04  |
| 123      | 2.14E-03    | 5          | 4.28E-04  |
| 124      | 2.54E-03    | 5          | 5.07E-04  |
| 125      | 2.90E-03    | 5          | 5.79E-04  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 126      | 3.60E-03    | 5          | 7.21E-04  |
| 127      | 4.30E-03    | 5          | 8.61E-04  |
| 128      | 1.20E-03    | 5          | 2.40E-04  |
| 129      | 1.01E-03    | 5          | 2.02E-04  |
| 130      | 8.53E-04    | 5          | 1.71E-04  |
| 131      | 6.96E-04    | 5          | 1.39E-04  |
| 132      | 4.78E-04    | 5          | 9.56E-05  |
| 133      | 1.56E-03    | 5          | 3.12E-04  |
| 134      | 1.97E-03    | 5          | 3.94E-04  |
| 135      | 2.48E-03    | 5          | 4.96E-04  |
| 136      | 2.88E-03    | 5          | 5.77E-04  |
| 137      | 3.53E-03    | 5          | 7.07E-04  |
| 138      | 4.96E-03    | 5          | 9.93E-04  |
| 139      | 1.05E-02    | 5          | 2.09E-03  |
| 140      | 1.23E-03    | 5          | 2.45E-04  |
| 141      | 9.68E-04    | 5          | 1.94E-04  |
| 142      | 7.99E-04    | 5          | 1.60E-04  |
| 143      | 5.35E-04    | 5          | 1.07E-04  |
| 144      | 2.30E-03    | 5          | 4.59E-04  |
| 145      | 3.02E-03    | 5          | 6.05E-04  |
| 146      | 3.63E-03    | 5          | 7.26E-04  |
| 147      | 4.84E-03    | 5          | 9.69E-04  |
| 148      | 7.12E-03    | 5          | 1.42E-03  |
| 149      | 6.43E-03    | 5          | 1.29E-03  |
| 150      | 3.72E-03    | 5          | 7.45E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 151      | 2.75E-03    | 5          | 5.51E-04  |
| 152      | 2.24E-03    | 5          | 4.48E-04  |
| 153      | 1.30E-03    | 5          | 2.60E-04  |
| 154      | 1.06E-03    | 5          | 2.13E-04  |
| 155      | 8.65E-04    | 5          | 1.73E-04  |
| 156      | 7.38E-04    | 5          | 1.48E-04  |
| 157      | 6.12E-03    | 5          | 1.22E-03  |
| 158      | 6.88E-03    | 5          | 1.38E-03  |
| 159      | 8.31E-03    | 5          | 1.66E-03  |
| 160      | 4.63E-03    | 5          | 9.26E-04  |
| 161      | 3.02E-03    | 5          | 6.04E-04  |
| 162      | 2.22E-03    | 5          | 4.45E-04  |
| 163      | 1.07E-03    | 5          | 2.14E-04  |
| 164      | 9.37E-04    | 5          | 1.87E-04  |
| 165      | 7.87E-04    | 5          | 1.57E-04  |
| 166      | 9.78E-03    | 5          | 1.96E-03  |
| 167      | 5.38E-03    | 5          | 1.08E-03  |
| 168      | 3.69E-03    | 5          | 7.38E-04  |
| 169      | 2.61E-03    | 5          | 5.22E-04  |
| 170      | 1.98E-03    | 5          | 3.97E-04  |
| 171      | 1.25E-03    | 5          | 2.49E-04  |
| 172      | 9.44E-04    | 5          | 1.89E-04  |
| 173      | 7.83E-04    | 5          | 1.57E-04  |
| 174      | 1.57E-02    | 5          | 3.13E-03  |
| 175      | 9.88E-03    | 5          | 1.98E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 176      | 6.10E-03 | 5   | 1.22E-03 |
| 177      | 4.14E-03 | 5   | 8.28E-04 |
| 178      | 2.92E-03 | 5   | 5.84E-04 |
| 179      | 2.12E-03 | 5   | 4.23E-04 |
| 180      | 1.64E-03 | 5   | 3.27E-04 |
| 181      | 1.14E-03 | 5   | 2.27E-04 |
| 182      | 9.26E-04 | 5   | 1.85E-04 |
| 183      | 1.31E-02 | 5   | 2.62E-03 |
| 184      | 9.27E-03 | 5   | 1.85E-03 |
| 185      | 6.46E-03 | 5   | 1.29E-03 |
| 186      | 4.42E-03 | 5   | 8.83E-04 |
| 187      | 3.23E-03 | 5   | 6.46E-04 |
| 188      | 2.40E-03 | 5   | 4.79E-04 |
| 189      | 1.85E-03 | 5   | 3.70E-04 |
| 190      | 1.47E-03 | 5   | 2.94E-04 |
| 191      | 1.52E-02 | 5   | 3.05E-03 |
| 192      | 1.10E-02 | 5   | 2.20E-03 |
| 193      | 8.16E-03 | 5   | 1.63E-03 |
| 194      | 6.10E-03 | 5   | 1.22E-03 |
| 195      | 4.51E-03 | 5   | 9.01E-04 |
| 196      | 3.37E-03 | 5   | 6.74E-04 |
| 197      | 2.60E-03 | 5   | 5.20E-04 |
| 198      | 1.99E-03 | 5   | 3.98E-04 |
| 199      | 1.60E-03 | 5   | 3.21E-04 |
| 200      | 1.32E-03 | 5   | 2.64E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 201      | 5.95E-03    | 5          | 1.19E-03  |
| 202      | 9.06E-03    | 5          | 1.81E-03  |
| 203      | 1.07E-02    | 5          | 2.15E-03  |
| 204      | 1.17E-02    | 5          | 2.34E-03  |
| 205      | 1.08E-02    | 5          | 2.16E-03  |
| 206      | 8.94E-03    | 5          | 1.79E-03  |
| 207      | 7.19E-03    | 5          | 1.44E-03  |
| 208      | 5.67E-03    | 5          | 1.13E-03  |
| 209      | 4.37E-03    | 5          | 8.74E-04  |
| 210      | 3.42E-03    | 5          | 6.83E-04  |
| 211      | 2.68E-03    | 5          | 5.37E-04  |
| 212      | 2.10E-03    | 5          | 4.20E-04  |
| 213      | 1.72E-03    | 5          | 3.43E-04  |
| 214      | 1.37E-03    | 5          | 2.74E-04  |
| 215      | 1.15E-03    | 5          | 2.30E-04  |
| 216      | 2.77E-03    | 5          | 5.54E-04  |
| 217      | 3.20E-03    | 5          | 6.41E-04  |
| 218      | 4.41E-03    | 5          | 8.82E-04  |
| 219      | 5.66E-03    | 5          | 1.13E-03  |
| 220      | 6.68E-03    | 5          | 1.34E-03  |
| 221      | 7.09E-03    | 5          | 1.42E-03  |
| 222      | 6.81E-03    | 5          | 1.36E-03  |
| 223      | 5.96E-03    | 5          | 1.19E-03  |
| 224      | 4.98E-03    | 5          | 9.97E-04  |
| 225      | 4.04E-03    | 5          | 8.07E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 226      | 3.24E-03 | 5   | 6.49E-04 |
| 227      | 2.64E-03 | 5   | 5.28E-04 |
| 228      | 2.13E-03 | 5   | 4.26E-04 |
| 229      | 1.73E-03 | 5   | 3.45E-04 |
| 230      | 1.42E-03 | 5   | 2.85E-04 |
| 231      | 1.14E-03 | 5   | 2.28E-04 |
| 232      | 1.94E-03 | 5   | 3.88E-04 |
| 233      | 2.04E-03 | 5   | 4.09E-04 |
| 234      | 2.70E-03 | 5   | 5.41E-04 |
| 235      | 3.47E-03 | 5   | 6.93E-04 |
| 236      | 4.24E-03 | 5   | 8.49E-04 |
| 237      | 4.96E-03 | 5   | 9.93E-04 |
| 238      | 5.06E-03 | 5   | 1.01E-03 |
| 239      | 4.70E-03 | 5   | 9.40E-04 |
| 240      | 4.18E-03 | 5   | 8.35E-04 |
| 241      | 3.54E-03 | 5   | 7.09E-04 |
| 242      | 2.98E-03 | 5   | 5.97E-04 |
| 243      | 2.48E-03 | 5   | 4.96E-04 |
| 244      | 2.08E-03 | 5   | 4.16E-04 |
| 245      | 1.68E-03 | 5   | 3.36E-04 |
| 246      | 1.43E-03 | 5   | 2.85E-04 |
| 247      | 1.16E-03 | 5   | 2.31E-04 |
| 248      | 1.58E-03 | 5   | 3.17E-04 |
| 249      | 1.57E-03 | 5   | 3.13E-04 |
| 250      | 1.84E-03 | 5   | 3.67E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 251      | 2.36E-03 | 5   | 4.72E-04 |
| 252      | 2.99E-03 | 5   | 5.99E-04 |
| 253      | 3.48E-03 | 5   | 6.96E-04 |
| 254      | 3.71E-03 | 5   | 7.42E-04 |
| 255      | 3.68E-03 | 5   | 7.36E-04 |
| 256      | 3.44E-03 | 5   | 6.89E-04 |
| 257      | 3.08E-03 | 5   | 6.16E-04 |
| 258      | 2.67E-03 | 5   | 5.35E-04 |
| 259      | 2.30E-03 | 5   | 4.59E-04 |
| 260      | 1.97E-03 | 5   | 3.94E-04 |
| 261      | 1.64E-03 | 5   | 3.27E-04 |
| 262      | 1.40E-03 | 5   | 2.79E-04 |
| 263      | 1.16E-03 | 5   | 2.31E-04 |
| 264      | 1.06E-03 | 5   | 2.12E-04 |
| 265      | 1.03E-03 | 5   | 2.05E-04 |
| 266      | 1.06E-03 | 5   | 2.12E-04 |
| 267      | 1.22E-03 | 5   | 2.43E-04 |
| 268      | 1.21E-03 | 5   | 2.42E-04 |
| 269      | 1.36E-03 | 5   | 2.72E-04 |
| 270      | 1.68E-03 | 5   | 3.37E-04 |
| 271      | 2.14E-03 | 5   | 4.28E-04 |
| 272      | 2.54E-03 | 5   | 5.07E-04 |
| 273      | 2.80E-03 | 5   | 5.60E-04 |
| 274      | 2.89E-03 | 5   | 5.78E-04 |
| 275      | 2.80E-03 | 5   | 5.61E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 276      | 2.62E-03 | 5   | 5.24E-04 |
| 277      | 2.36E-03 | 5   | 4.72E-04 |
| 278      | 2.09E-03 | 5   | 4.17E-04 |
| 279      | 1.83E-03 | 5   | 3.66E-04 |
| 280      | 1.56E-03 | 5   | 3.13E-04 |
| 281      | 1.32E-03 | 5   | 2.64E-04 |
| 282      | 1.11E-03 | 5   | 2.23E-04 |
| 283      | 8.43E-04 | 5   | 1.69E-04 |
| 284      | 8.09E-04 | 5   | 1.62E-04 |
| 285      | 7.93E-04 | 5   | 1.59E-04 |
| 286      | 8.39E-04 | 5   | 1.68E-04 |
| 287      | 9.57E-04 | 5   | 1.91E-04 |
| 288      | 1.04E-03 | 5   | 2.09E-04 |
| 289      | 1.09E-03 | 5   | 2.17E-04 |
| 290      | 1.31E-03 | 5   | 2.63E-04 |
| 291      | 1.60E-03 | 5   | 3.20E-04 |
| 292      | 1.91E-03 | 5   | 3.81E-04 |
| 293      | 2.15E-03 | 5   | 4.30E-04 |
| 294      | 2.29E-03 | 5   | 4.59E-04 |
| 295      | 2.30E-03 | 5   | 4.60E-04 |
| 296      | 2.22E-03 | 5   | 4.45E-04 |
| 297      | 2.07E-03 | 5   | 4.15E-04 |
| 298      | 1.88E-03 | 5   | 3.76E-04 |
| 299      | 1.68E-03 | 5   | 3.35E-04 |
| 300      | 1.47E-03 | 5   | 2.94E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 301      | 1.21E-03    | 5          | 2.42E-04  |
| 302      | 1.06E-03    | 5          | 2.13E-04  |
| 303      | 7.17E-04    | 5          | 1.43E-04  |
| 304      | 6.57E-04    | 5          | 1.31E-04  |
| 305      | 6.50E-04    | 5          | 1.30E-04  |
| 306      | 6.29E-04    | 5          | 1.26E-04  |
| 307      | 6.47E-04    | 5          | 1.29E-04  |
| 308      | 7.15E-04    | 5          | 1.43E-04  |
| 309      | 8.08E-04    | 5          | 1.62E-04  |
| 310      | 8.75E-04    | 5          | 1.75E-04  |
| 311      | 1.03E-03    | 5          | 2.06E-04  |
| 312      | 1.24E-03    | 5          | 2.48E-04  |
| 313      | 1.47E-03    | 5          | 2.94E-04  |
| 314      | 1.68E-03    | 5          | 3.37E-04  |
| 315      | 1.83E-03    | 5          | 3.67E-04  |
| 316      | 1.90E-03    | 5          | 3.80E-04  |
| 317      | 1.88E-03    | 5          | 3.76E-04  |
| 318      | 1.80E-03    | 5          | 3.60E-04  |
| 319      | 1.67E-03    | 5          | 3.35E-04  |
| 320      | 1.51E-03    | 5          | 3.03E-04  |
| 321      | 1.36E-03    | 5          | 2.71E-04  |
| 322      | 1.13E-03    | 5          | 2.25E-04  |
| 323      | 1.01E-03    | 5          | 2.02E-04  |
| 324      | 6.97E-04    | 5          | 1.39E-04  |
| 325      | 6.06E-04    | 5          | 1.21E-04  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 326      | 5.91E-04 | 5   | 1.18E-04 |
| 327      | 5.35E-04 | 5   | 1.07E-04 |
| 328      | 5.35E-04 | 5   | 1.07E-04 |
| 329      | 5.80E-04 | 5   | 1.16E-04 |
| 330      | 6.05E-04 | 5   | 1.21E-04 |
| 331      | 6.56E-04 | 5   | 1.31E-04 |
| 332      | 7.37E-04 | 5   | 1.47E-04 |
| 333      | 8.37E-04 | 5   | 1.67E-04 |
| 334      | 9.86E-04 | 5   | 1.97E-04 |
| 335      | 1.16E-03 | 5   | 2.32E-04 |
| 336      | 1.34E-03 | 5   | 2.68E-04 |
| 337      | 1.48E-03 | 5   | 2.96E-04 |
| 338      | 1.57E-03 | 5   | 3.14E-04 |
| 339      | 1.60E-03 | 5   | 3.20E-04 |
| 340      | 1.56E-03 | 5   | 3.13E-04 |
| 341      | 1.49E-03 | 5   | 2.97E-04 |
| 342      | 1.33E-03 | 5   | 2.67E-04 |
| 343      | 1.23E-03 | 5   | 2.46E-04 |
| 344      | 1.05E-03 | 5   | 2.10E-04 |
| 345      | 9.49E-04 | 5   | 1.90E-04 |
| 346      | 5.31E-04 | 5   | 1.06E-04 |
| 347      | 5.10E-04 | 5   | 1.02E-04 |
| 348      | 4.88E-04 | 5   | 9.77E-05 |
| 349      | 4.63E-04 | 5   | 9.27E-05 |
| 350      | 4.68E-04 | 5   | 9.35E-05 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 351      | 4.98E-04    | 5          | 9.97E-05  |
| 352      | 5.30E-04    | 5          | 1.06E-04  |
| 353      | 5.61E-04    | 5          | 1.12E-04  |
| 354      | 6.16E-04    | 5          | 1.23E-04  |
| 355      | 6.75E-04    | 5          | 1.35E-04  |
| 356      | 8.05E-04    | 5          | 1.61E-04  |
| 357      | 9.39E-04    | 5          | 1.88E-04  |
| 358      | 1.08E-03    | 5          | 2.17E-04  |
| 359      | 1.21E-03    | 5          | 2.42E-04  |
| 360      | 1.31E-03    | 5          | 2.61E-04  |
| 361      | 1.35E-03    | 5          | 2.71E-04  |
| 362      | 1.36E-03    | 5          | 2.72E-04  |
| 363      | 1.32E-03    | 5          | 2.63E-04  |
| 364      | 1.19E-03    | 5          | 2.38E-04  |
| 365      | 1.12E-03    | 5          | 2.23E-04  |
| 366      | 9.71E-04    | 5          | 1.94E-04  |
| 367      | 8.89E-04    | 5          | 1.78E-04  |
| 368      | 4.60E-04    | 5          | 9.21E-05  |
| 369      | 4.52E-04    | 5          | 9.03E-05  |
| 370      | 4.27E-04    | 5          | 8.54E-05  |
| 371      | 3.98E-04    | 5          | 7.97E-05  |
| 372      | 4.15E-04    | 5          | 8.29E-05  |
| 373      | 4.05E-04    | 5          | 8.09E-05  |
| 374      | 4.41E-04    | 5          | 8.82E-05  |
| 375      | 4.59E-04    | 5          | 9.17E-05  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 5.02E-04    | 5          | 1.00E-04  |
| 377      | 5.43E-04    | 5          | 1.09E-04  |
| 378      | 5.78E-04    | 5          | 1.16E-04  |
| 379      | 6.68E-04    | 5          | 1.34E-04  |
| 380      | 7.39E-04    | 5          | 1.48E-04  |
| 381      | 8.89E-04    | 5          | 1.78E-04  |
| 382      | 1.00E-03    | 5          | 2.00E-04  |
| 383      | 1.09E-03    | 5          | 2.19E-04  |
| 384      | 1.15E-03    | 5          | 2.30E-04  |
| 385      | 1.17E-03    | 5          | 2.34E-04  |
| 386      | 1.15E-03    | 5          | 2.30E-04  |
| 387      | 1.06E-03    | 5          | 2.13E-04  |
| 388      | 1.01E-03    | 5          | 2.02E-04  |
| 389      | 8.97E-04    | 5          | 1.79E-04  |
| 390      | 8.29E-04    | 5          | 1.66E-04  |

**Risk Calculations - 3rd Trimester Start  
Construction Phase 3B**

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         | Consta |         |      |   |      |       |          |     |     |      | RISK |     | (Risk/  |         |                 |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|------|-----|---------|---------|-----------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT   | FAH | (0-2)   | (Mill)  |                 |
| 1        | 0.14257 | 0.0111 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.65E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 8.9E-09 | 8.9E-03 | Max<br>5.35E-01 |
| 2        | 0.13369 | 0.0111 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.55E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 8.4E-09 | 8.4E-03 |                 |
| 3        | 0.12214 | 0.0111 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.42E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 7.6E-09 | 7.6E-03 |                 |
| 4        | 0.11318 | 0.0111 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.31E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 7.1E-09 | 7.1E-03 |                 |
| 5        | 0.10329 | 0.0111 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.20E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 6.5E-09 | 6.5E-03 |                 |
| 6        | 0.0959  | 0.0111 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.11E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 6.0E-09 | 6.0E-03 |                 |
| 7        | 0.18122 | 0.0111 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.10E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 1.1E-08 | 1.1E-02 |                 |
| 8        | 0.16599 | 0.0111 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.93E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 1.0E-08 | 1.0E-02 |                 |
| 9        | 0.14564 | 0.0111 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.69E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 9.1E-09 | 9.1E-03 |                 |
| 10       | 0.13566 | 0.0111 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.57E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 8.5E-09 | 8.5E-03 |                 |
| 11       | 0.11905 | 0.0111 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.38E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 7.4E-09 | 7.4E-03 |                 |
| 12       | 0.11174 | 0.0111 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.30E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 7.0E-09 | 7.0E-03 |                 |
| 13       | 0.10516 | 0.0111 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.22E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 6.6E-09 | 6.6E-03 |                 |
| 14       | 0.19891 | 0.0111 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.31E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 1.2E-08 | 1.2E-02 |                 |
| 15       | 0.18538 | 0.0111 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.15E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 1.2E-08 | 1.2E-02 |                 |
| 16       | 0.16647 | 0.0111 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.93E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 1.0E-08 | 1.0E-02 |                 |
| 17       | 0.14661 | 0.0111 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.70E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 9.2E-09 | 9.2E-03 |                 |
| 18       | 0.13322 | 0.0111 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.55E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 8.3E-09 | 8.3E-03 |                 |
| 19       | 0.12149 | 0.0111 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.41E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 7.6E-09 | 7.6E-03 |                 |
| 20       | 0.11331 | 0.0111 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.31E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 7.1E-09 | 7.1E-03 |                 |
| 21       | 0.43801 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.08E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 2.7E-08 | 2.7E-02 |                 |
| 22       | 0.5016  | 0.0111 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.82E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 3.1E-08 | 3.1E-02 |                 |
| 23       | 0.53845 | 0.0111 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.25E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 3.4E-08 | 3.4E-02 |                 |
| 24       | 0.55059 | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.39E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 3.4E-08 | 3.4E-02 |                 |
| 25       | 0.61064 | 0.0111 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.09E-06 | 1.1 | 10  | 0.03 | 70   | 1   | 3.8E-08 | 3.8E-02 |                 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 26       | 0.59517 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 27       | 0.54814 | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 28       | 0.48705 | 0.0111 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.65E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 29       | 0.41251 | 0.0111 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 30       | 0.27062 | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 31       | 0.24985 | 0.0111 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.90E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 32       | 0.20383 | 0.0111 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08 | 1.3E-02 |
| 33       | 0.19347 | 0.0111 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08 | 1.2E-02 |
| 34       | 0.16069 | 0.0111 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08 | 1.0E-02 |
| 35       | 0.14853 | 0.0111 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.3E-09 | 9.3E-03 |
| 36       | 0.1328  | 0.0111 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.54E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09 | 8.3E-03 |
| 37       | 0.12553 | 0.0111 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.8E-09 | 7.8E-03 |
| 38       | 0.59038 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.85E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 39       | 0.53496 | 0.0111 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 40       | 0.57248 | 0.0111 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 41       | 0.58509 | 0.0111 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 42       | 0.61645 | 0.0111 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.15E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 43       | 0.63781 | 0.0111 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 44       | 0.60659 | 0.0111 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.04E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 45       | 0.53649 | 0.0111 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 46       | 0.4596  | 0.0111 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 47       | 0.41777 | 0.0111 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.85E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 48       | 0.3294  | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.82E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 49       | 0.28523 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 50       | 0.25804 | 0.0111 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 51       | 0.23121 | 0.0111 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 52       | 0.18436 | 0.0111 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08 | 1.2E-02 |
| 53       | 0.16289 | 0.0111 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08 | 1.0E-02 |
| 54       | 0.14939 | 0.0111 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.3E-09 | 9.3E-03 |
| 55       | 0.15235 | 0.0111 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.77E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.5E-09 | 9.5E-03 |
| 56       | 0.55797 | 0.0111 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.48E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 57       | 0.56885 | 0.0111 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 58       | 0.58821 | 0.0111 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.83E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 59       | 0.68345 | 0.0111 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-08 | 4.3E-02 |
| 60       | 0.69254 | 0.0111 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.04E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-08 | 4.3E-02 |
| 61       | 0.73699 | 0.0111 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 62       | 0.72167 | 0.0111 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 63       | 0.62652 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.27E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 64       | 0.56525 | 0.0111 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.56E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 65       | 0.46307 | 0.0111 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 66       | 0.46763 | 0.0111 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 67       | 0.32884 | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.82E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 68       | 0.29277 | 0.0111 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 69       | 0.27065 | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 70       | 0.26125 | 0.0111 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 71       | 0.20425 | 0.0111 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08 | 1.3E-02 |
| 72       | 0.1906  | 0.0111 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08 | 1.2E-02 |
| 73       | 0.22012 | 0.0111 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 74       | 0.62675 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.27E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 75       | 0.65056 | 0.0111 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 76       | 0.65456 | 0.0111 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 77       | 0.73638 | 0.0111 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 78       | 0.8471  | 0.0111 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.83E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 79       | 0.88849 | 0.0111 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 80       | 0.90496 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 81       | 0.82607 | 0.0111 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.59E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-08 | 5.2E-02 |
| 82       | 0.70876 | 0.0111 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 83       | 0.59652 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 84       | 0.67997 | 0.0111 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-08 | 4.3E-02 |
| 85       | 0.34615 | 0.0111 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 86       | 0.31525 | 0.0111 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 87       | 0.30195 | 0.0111 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.50E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08 | 1.9E-02 |
| 88       | 0.28593 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 89       | 0.2696  | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 90       | 0.25777 | 0.0111 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 91       | 0.7657  | 0.0111 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.8E-08 | 4.8E-02 |
| 92       | 0.78216 | 0.0111 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 93       | 0.89506 | 0.0111 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 94       | 0.94714 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 95       | 1.04003 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 96       | 1.12421 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-08 | 7.0E-02 |
| 97       | 1.04229 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 98       | 0.90305 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 99       | 0.88258 | 0.0111 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 100      | 0.44117 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08 | 2.8E-02 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 101      | 0.36795 | 0.0111 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.27E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-08 | 2.3E-02 |
| 102      | 0.34454 | 0.0111 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.00E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 103      | 0.32801 | 0.0111 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 104      | 0.30575 | 0.0111 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08 | 1.9E-02 |
| 105      | 0.27575 | 0.0111 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 106      | 0.80913 | 0.0111 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 107      | 0.83667 | 0.0111 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-08 | 5.2E-02 |
| 108      | 0.94434 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 109      | 0.98691 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.2E-08 | 6.2E-02 |
| 110      | 1.13153 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 111      | 1.3058  | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.52E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 112      | 1.41351 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-08 | 8.8E-02 |
| 113      | 1.42196 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 114      | 1.36036 | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.5E-08 | 8.5E-02 |
| 115      | 0.40925 | 0.0111 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 116      | 0.39445 | 0.0111 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.58E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 117      | 0.38313 | 0.0111 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.45E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 118      | 0.33537 | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 119      | 0.28473 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 120      | 0.92954 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-08 | 5.8E-02 |
| 121      | 0.86551 | 0.0111 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 122      | 0.98739 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.2E-08 | 6.2E-02 |
| 123      | 1.16933 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.3E-08 | 7.3E-02 |
| 124      | 1.386   | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.7E-08 | 8.7E-02 |
| 125      | 1.58316 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.9E-08 | 9.9E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 126      | 1.96907 | 0.0111 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.29E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 127      | 2.35262 | 0.0111 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.73E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 128      | 0.65638 | 0.0111 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.62E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 129      | 0.55176 | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 130      | 0.46604 | 0.0111 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 131      | 0.38018 | 0.0111 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 132      | 0.26126 | 0.0111 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 133      | 0.85154 | 0.0111 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 134      | 1.07595 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.7E-08 | 6.7E-02 |
| 135      | 1.3543  | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.5E-08 | 8.5E-02 |
| 136      | 1.57548 | 0.0111 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.9E-08 | 9.9E-02 |
| 137      | 1.93144 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.24E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 138      | 2.71283 | 0.0111 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 139      | 5.71455 | 0.0111 | 6.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.63E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-07 | 3.6E-01 |
| 140      | 0.67028 | 0.0111 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.78E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 141      | 0.52905 | 0.0111 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 142      | 0.43694 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.07E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 143      | 0.29239 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 144      | 1.25505 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 145      | 1.65273 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 146      | 1.98418 | 0.0111 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.30E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 147      | 2.64664 | 0.0111 | 2.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 148      | 3.89148 | 0.0111 | 4.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.52E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-07 | 2.4E-01 |
| 149      | 3.51153 | 0.0111 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.08E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-07 | 2.2E-01 |
| 150      | 2.03503 | 0.0111 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-07 | 1.3E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 151      | 1.50481 | 0.0111 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.4E-08 | 9.4E-02 |
| 152      | 1.22329 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-08 | 7.6E-02 |
| 153      | 0.70991 | 0.0111 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.24E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 154      | 0.58106 | 0.0111 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 155      | 0.47279 | 0.0111 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.49E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 156      | 0.40353 | 0.0111 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 157      | 3.34251 | 0.0111 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.88E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-07 | 2.1E-01 |
| 158      | 3.76257 | 0.0111 | 4.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.37E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-07 | 2.4E-01 |
| 159      | 4.54045 | 0.0111 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.27E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-07 | 2.8E-01 |
| 160      | 2.52972 | 0.0111 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.94E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 161      | 1.65138 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 162      | 1.21511 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-08 | 7.6E-02 |
| 163      | 0.58478 | 0.0111 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 164      | 0.51231 | 0.0111 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.95E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 165      | 0.43002 | 0.0111 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 166      | 5.34751 | 0.0111 | 5.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-07 | 3.3E-01 |
| 167      | 2.93781 | 0.0111 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 168      | 2.01593 | 0.0111 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 169      | 1.42521 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 170      | 1.08462 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-08 | 6.8E-02 |
| 171      | 0.68161 | 0.0111 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-08 | 4.3E-02 |
| 172      | 0.51579 | 0.0111 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 173      | 0.42776 | 0.0111 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.96E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 174      | 8.55485 | 0.0111 | 9.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.93E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-07 | 5.3E-01 |
| 175      | 5.40053 | 0.0111 | 6.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.27E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-07 | 3.4E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 176      | 3.33391 | 0.0111 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.87E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-07 | 2.1E-01 |
| 177      | 2.2635  | 0.0111 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.63E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 178      | 1.59628 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.85E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 179      | 1.15673 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.34E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.2E-08 | 7.2E-02 |
| 180      | 0.89425 | 0.0111 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 181      | 0.62061 | 0.0111 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 182      | 0.50601 | 0.0111 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.87E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 183      | 7.15077 | 0.0111 | 7.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.30E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-07 | 4.5E-01 |
| 184      | 5.06388 | 0.0111 | 5.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.88E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-07 | 3.2E-01 |
| 185      | 3.52857 | 0.0111 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.09E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-07 | 2.2E-01 |
| 186      | 2.41297 | 0.0111 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 187      | 1.76478 | 0.0111 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.05E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 188      | 1.30975 | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.52E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 189      | 1.01047 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.17E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-08 | 6.3E-02 |
| 190      | 0.80384 | 0.0111 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-08 | 5.0E-02 |
| 191      | 8.32687 | 0.0111 | 9.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.66E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-07 | 5.2E-01 |
| 192      | 6.02533 | 0.0111 | 6.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.99E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-07 | 3.8E-01 |
| 193      | 4.45973 | 0.0111 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.18E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-07 | 2.8E-01 |
| 194      | 3.33262 | 0.0111 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.87E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-07 | 2.1E-01 |
| 195      | 2.46305 | 0.0111 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.86E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 196      | 1.84191 | 0.0111 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 197      | 1.42077 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 198      | 1.08702 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-08 | 6.8E-02 |
| 199      | 0.87584 | 0.0111 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 200      | 0.72192 | 0.0111 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 201      | 3.24959 | 0.0111 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.77E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-07 | 2.0E-01 |
| 202      | 4.95098 | 0.0111 | 5.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.75E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.1E-07 | 3.1E-01 |
| 203      | 5.8668  | 0.0111 | 6.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.81E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-07 | 3.7E-01 |
| 204      | 6.38123 | 0.0111 | 7.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-07 | 4.0E-01 |
| 205      | 5.89622 | 0.0111 | 6.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.84E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-07 | 3.7E-01 |
| 206      | 4.88452 | 0.0111 | 5.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.67E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.1E-07 | 3.1E-01 |
| 207      | 3.92915 | 0.0111 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.56E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-07 | 2.5E-01 |
| 208      | 3.09747 | 0.0111 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.59E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 209      | 2.38952 | 0.0111 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.77E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 210      | 1.86639 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 211      | 1.46676 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-08 | 9.2E-02 |
| 212      | 1.14687 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.2E-08 | 7.2E-02 |
| 213      | 0.93847 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 214      | 0.74904 | 0.0111 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 215      | 0.62804 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.29E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 216      | 1.51358 | 0.0111 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.5E-08 | 9.5E-02 |
| 217      | 1.75108 | 0.0111 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 218      | 2.40965 | 0.0111 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 219      | 3.09162 | 0.0111 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.59E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 220      | 3.64843 | 0.0111 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 221      | 3.87704 | 0.0111 | 4.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-07 | 2.4E-01 |
| 222      | 3.7245  | 0.0111 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.32E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 223      | 3.25928 | 0.0111 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.78E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-07 | 2.0E-01 |
| 224      | 2.72345 | 0.0111 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 225      | 2.20632 | 0.0111 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-07 | 1.4E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 226      | 1.77318 | 0.0111 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 227      | 1.44239 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.0E-08 | 9.0E-02 |
| 228      | 1.16513 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.3E-08 | 7.3E-02 |
| 229      | 0.94394 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 230      | 0.77791 | 0.0111 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 231      | 0.62195 | 0.0111 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 232      | 1.05953 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.6E-08 | 6.6E-02 |
| 233      | 1.11661 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-08 | 7.0E-02 |
| 234      | 1.47792 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-08 | 9.2E-02 |
| 235      | 1.89467 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.20E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 236      | 2.31891 | 0.0111 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 237      | 2.71307 | 0.0111 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 238      | 2.76677 | 0.0111 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 239      | 2.56931 | 0.0111 | 2.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.98E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 240      | 2.2825  | 0.0111 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.65E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 241      | 1.93631 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 242      | 1.63045 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 243      | 1.35634 | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.5E-08 | 8.5E-02 |
| 244      | 1.13547 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 245      | 0.91896 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 246      | 0.77965 | 0.0111 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 247      | 0.63206 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.34E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 248      | 0.86538 | 0.0111 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 249      | 0.85659 | 0.0111 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.94E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 250      | 1.00342 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-08 | 6.3E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 251      | 1.28849 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.1E-08 | 8.1E-02 |
| 252      | 1.63636 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.90E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 253      | 1.90198 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 254      | 2.02634 | 0.0111 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.35E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 255      | 2.01179 | 0.0111 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.33E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 256      | 1.88256 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.18E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 257      | 1.68205 | 0.0111 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.95E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 258      | 1.46116 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.1E-08 | 9.1E-02 |
| 259      | 1.25462 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 260      | 1.07567 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.7E-08 | 6.7E-02 |
| 261      | 0.89369 | 0.0111 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 262      | 0.7632  | 0.0111 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.8E-08 | 4.8E-02 |
| 263      | 0.63167 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 264      | 0.58009 | 0.0111 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 265      | 0.56073 | 0.0111 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.51E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 266      | 0.57902 | 0.0111 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 267      | 0.66488 | 0.0111 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 268      | 0.66061 | 0.0111 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 269      | 0.74394 | 0.0111 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 270      | 0.92034 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-08 | 5.8E-02 |
| 271      | 1.1693  | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.3E-08 | 7.3E-02 |
| 272      | 1.38588 | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.7E-08 | 8.7E-02 |
| 273      | 1.53028 | 0.0111 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.78E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.6E-08 | 9.6E-02 |
| 274      | 1.58042 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.9E-08 | 9.9E-02 |
| 275      | 1.5324  | 0.0111 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.78E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.6E-08 | 9.6E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 276      | 1.43091 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 277      | 1.28867 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.1E-08 | 8.1E-02 |
| 278      | 1.14049 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 279      | 1.0007  | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-08 | 6.3E-02 |
| 280      | 0.85395 | 0.0111 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 281      | 0.7216  | 0.0111 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 282      | 0.60823 | 0.0111 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.06E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 283      | 0.46088 | 0.0111 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.35E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 284      | 0.44204 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 285      | 0.43325 | 0.0111 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 286      | 0.45841 | 0.0111 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 287      | 0.52307 | 0.0111 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.07E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 288      | 0.56987 | 0.0111 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.61E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 289      | 0.59322 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 290      | 0.71744 | 0.0111 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 291      | 0.87548 | 0.0111 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 292      | 1.04219 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 293      | 1.17605 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-08 | 7.4E-02 |
| 294      | 1.25313 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.45E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 295      | 1.25792 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.9E-08 | 7.9E-02 |
| 296      | 1.21473 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-08 | 7.6E-02 |
| 297      | 1.13348 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 298      | 1.02677 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 299      | 0.91652 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 300      | 0.80208 | 0.0111 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-08 | 5.0E-02 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 301      | 0.6609  | 0.0111 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 302      | 0.58197 | 0.0111 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 303      | 0.39159 | 0.0111 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.54E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 304      | 0.35914 | 0.0111 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 305      | 0.35529 | 0.0111 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 306      | 0.34386 | 0.0111 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 307      | 0.35356 | 0.0111 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.10E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 308      | 0.39073 | 0.0111 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.53E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 309      | 0.44141 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 310      | 0.47846 | 0.0111 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 311      | 0.56418 | 0.0111 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 312      | 0.67741 | 0.0111 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 313      | 0.80426 | 0.0111 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-08 | 5.0E-02 |
| 314      | 0.92054 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-08 | 5.8E-02 |
| 315      | 1.00261 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-08 | 6.3E-02 |
| 316      | 1.03928 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 317      | 1.02828 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 318      | 0.98264 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 319      | 0.91474 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 320      | 0.82666 | 0.0111 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.59E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-08 | 5.2E-02 |
| 321      | 0.74121 | 0.0111 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 322      | 0.6153  | 0.0111 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 323      | 0.55156 | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 324      | 0.38105 | 0.0111 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.42E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 325      | 0.33126 | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.84E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 326      | 0.32305 | 0.0111 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 327      | 0.29252 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 328      | 0.29248 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 329      | 0.317   | 0.0111 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 330      | 0.33066 | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.84E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 331      | 0.35869 | 0.0111 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 332      | 0.40288 | 0.0111 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 333      | 0.4573  | 0.0111 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 334      | 0.53898 | 0.0111 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 335      | 0.63508 | 0.0111 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 336      | 0.73114 | 0.0111 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.48E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 337      | 0.80795 | 0.0111 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 338      | 0.85925 | 0.0111 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.97E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 339      | 0.87375 | 0.0111 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 340      | 0.85425 | 0.0111 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 341      | 0.81269 | 0.0111 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 342      | 0.72959 | 0.0111 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.47E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 343      | 0.67174 | 0.0111 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.80E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 344      | 0.57305 | 0.0111 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.65E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 345      | 0.51872 | 0.0111 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 346      | 0.29019 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 347      | 0.27864 | 0.0111 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 348      | 0.26697 | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.10E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 349      | 0.25326 | 0.0111 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.94E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 350      | 0.25562 | 0.0111 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.97E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 351      | 0.2724  | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 352      | 0.28943 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 353      | 0.3067  | 0.0111 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.56E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08 | 1.9E-02 |
| 354      | 0.33648 | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.90E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 355      | 0.3689  | 0.0111 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.28E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-08 | 2.3E-02 |
| 356      | 0.44002 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 357      | 0.51306 | 0.0111 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.95E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 358      | 0.59206 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.87E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 359      | 0.66144 | 0.0111 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 360      | 0.71417 | 0.0111 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.29E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 361      | 0.73968 | 0.0111 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.58E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 362      | 0.74345 | 0.0111 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 363      | 0.71982 | 0.0111 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.35E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 364      | 0.65107 | 0.0111 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.56E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 365      | 0.60983 | 0.0111 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 366      | 0.53056 | 0.0111 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 367      | 0.48574 | 0.0111 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 368      | 0.25159 | 0.0111 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 369      | 0.24678 | 0.0111 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08 | 1.5E-02 |
| 370      | 0.23335 | 0.0111 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08 | 1.5E-02 |
| 371      | 0.21774 | 0.0111 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.53E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 372      | 0.22662 | 0.0111 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 373      | 0.22108 | 0.0111 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.57E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 374      | 0.24111 | 0.0111 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08 | 1.5E-02 |
| 375      | 0.25062 | 0.0111 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 376      | 0.27425 | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.18E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 377      | 0.29662 | 0.0111 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.44E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08 | 1.9E-02 |
| 378      | 0.31582 | 0.0111 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 379      | 0.36484 | 0.0111 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-08 | 2.3E-02 |
| 380      | 0.40393 | 0.0111 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 381      | 0.48601 | 0.0111 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 382      | 0.5477  | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 383      | 0.59749 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 384      | 0.62971 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 385      | 0.64012 | 0.0111 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 386      | 0.62903 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 387      | 0.5807  | 0.0111 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 388      | 0.55072 | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 389      | 0.49043 | 0.0111 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.1E-08 | 3.1E-02 |
| 390      | 0.45288 | 0.0111 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08 | 2.8E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 1.58E-03 | 5   | 3.17E-04 | 1.90E-02 |
| 2  | 1.48E-03 | 5   | 2.97E-04 |          |
| 3  | 1.36E-03 | 5   | 2.71E-04 |          |
| 4  | 1.26E-03 | 5   | 2.51E-04 |          |
| 5  | 1.15E-03 | 5   | 2.29E-04 |          |
| 6  | 1.06E-03 | 5   | 2.13E-04 |          |
| 7  | 2.01E-03 | 5   | 4.02E-04 |          |
| 8  | 1.84E-03 | 5   | 3.69E-04 |          |
| 9  | 1.62E-03 | 5   | 3.23E-04 |          |
| 10 | 1.51E-03 | 5   | 3.01E-04 |          |
| 11 | 1.32E-03 | 5   | 2.64E-04 |          |
| 12 | 1.24E-03 | 5   | 2.48E-04 |          |
| 13 | 1.17E-03 | 5   | 2.34E-04 |          |
| 14 | 2.21E-03 | 5   | 4.42E-04 |          |
| 15 | 2.06E-03 | 5   | 4.12E-04 |          |
| 16 | 1.85E-03 | 5   | 3.70E-04 |          |
| 17 | 1.63E-03 | 5   | 3.26E-04 |          |
| 18 | 1.48E-03 | 5   | 2.96E-04 |          |
| 19 | 1.35E-03 | 5   | 2.70E-04 |          |
| 20 | 1.26E-03 | 5   | 2.52E-04 |          |
| 21 | 4.86E-03 | 5   | 9.73E-04 |          |
| 22 | 5.57E-03 | 5   | 1.11E-03 |          |
| 23 | 5.98E-03 | 5   | 1.20E-03 |          |
| 24 | 6.11E-03 | 5   | 1.22E-03 |          |
| 25 | 6.78E-03 | 5   | 1.36E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 6.61E-03    | 5          | 1.32E-03  |
| 27       | 6.09E-03    | 5          | 1.22E-03  |
| 28       | 5.41E-03    | 5          | 1.08E-03  |
| 29       | 4.58E-03    | 5          | 9.16E-04  |
| 30       | 3.00E-03    | 5          | 6.01E-04  |
| 31       | 2.77E-03    | 5          | 5.55E-04  |
| 32       | 2.26E-03    | 5          | 4.53E-04  |
| 33       | 2.15E-03    | 5          | 4.30E-04  |
| 34       | 1.78E-03    | 5          | 3.57E-04  |
| 35       | 1.65E-03    | 5          | 3.30E-04  |
| 36       | 1.47E-03    | 5          | 2.95E-04  |
| 37       | 1.39E-03    | 5          | 2.79E-04  |
| 38       | 6.56E-03    | 5          | 1.31E-03  |
| 39       | 5.94E-03    | 5          | 1.19E-03  |
| 40       | 6.36E-03    | 5          | 1.27E-03  |
| 41       | 6.50E-03    | 5          | 1.30E-03  |
| 42       | 6.84E-03    | 5          | 1.37E-03  |
| 43       | 7.08E-03    | 5          | 1.42E-03  |
| 44       | 6.74E-03    | 5          | 1.35E-03  |
| 45       | 5.96E-03    | 5          | 1.19E-03  |
| 46       | 5.10E-03    | 5          | 1.02E-03  |
| 47       | 4.64E-03    | 5          | 9.28E-04  |
| 48       | 3.66E-03    | 5          | 7.31E-04  |
| 49       | 3.17E-03    | 5          | 6.33E-04  |
| 50       | 2.87E-03    | 5          | 5.73E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 2.57E-03    | 5          | 5.13E-04  |
| 52       | 2.05E-03    | 5          | 4.09E-04  |
| 53       | 1.81E-03    | 5          | 3.62E-04  |
| 54       | 1.66E-03    | 5          | 3.32E-04  |
| 55       | 1.69E-03    | 5          | 3.38E-04  |
| 56       | 6.20E-03    | 5          | 1.24E-03  |
| 57       | 6.32E-03    | 5          | 1.26E-03  |
| 58       | 6.53E-03    | 5          | 1.31E-03  |
| 59       | 7.59E-03    | 5          | 1.52E-03  |
| 60       | 7.69E-03    | 5          | 1.54E-03  |
| 61       | 8.18E-03    | 5          | 1.64E-03  |
| 62       | 8.01E-03    | 5          | 1.60E-03  |
| 63       | 6.96E-03    | 5          | 1.39E-03  |
| 64       | 6.28E-03    | 5          | 1.26E-03  |
| 65       | 5.14E-03    | 5          | 1.03E-03  |
| 66       | 5.19E-03    | 5          | 1.04E-03  |
| 67       | 3.65E-03    | 5          | 7.30E-04  |
| 68       | 3.25E-03    | 5          | 6.50E-04  |
| 69       | 3.01E-03    | 5          | 6.01E-04  |
| 70       | 2.90E-03    | 5          | 5.80E-04  |
| 71       | 2.27E-03    | 5          | 4.54E-04  |
| 72       | 2.12E-03    | 5          | 4.23E-04  |
| 73       | 2.44E-03    | 5          | 4.89E-04  |
| 74       | 6.96E-03    | 5          | 1.39E-03  |
| 75       | 7.22E-03    | 5          | 1.44E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 7.27E-03    | 5          | 1.45E-03  |
| 77       | 8.18E-03    | 5          | 1.64E-03  |
| 78       | 9.41E-03    | 5          | 1.88E-03  |
| 79       | 9.87E-03    | 5          | 1.97E-03  |
| 80       | 1.00E-02    | 5          | 2.01E-03  |
| 81       | 9.17E-03    | 5          | 1.83E-03  |
| 82       | 7.87E-03    | 5          | 1.57E-03  |
| 83       | 6.62E-03    | 5          | 1.32E-03  |
| 84       | 7.55E-03    | 5          | 1.51E-03  |
| 85       | 3.84E-03    | 5          | 7.69E-04  |
| 86       | 3.50E-03    | 5          | 7.00E-04  |
| 87       | 3.35E-03    | 5          | 6.71E-04  |
| 88       | 3.17E-03    | 5          | 6.35E-04  |
| 89       | 2.99E-03    | 5          | 5.99E-04  |
| 90       | 2.86E-03    | 5          | 5.72E-04  |
| 91       | 8.50E-03    | 5          | 1.70E-03  |
| 92       | 8.68E-03    | 5          | 1.74E-03  |
| 93       | 9.94E-03    | 5          | 1.99E-03  |
| 94       | 1.05E-02    | 5          | 2.10E-03  |
| 95       | 1.15E-02    | 5          | 2.31E-03  |
| 96       | 1.25E-02    | 5          | 2.50E-03  |
| 97       | 1.16E-02    | 5          | 2.31E-03  |
| 98       | 1.00E-02    | 5          | 2.01E-03  |
| 99       | 9.80E-03    | 5          | 1.96E-03  |
| 100      | 4.90E-03    | 5          | 9.80E-04  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 4.09E-03 | 5   | 8.17E-04 |
| 102           | 3.83E-03 | 5   | 7.65E-04 |
| 103           | 3.64E-03 | 5   | 7.28E-04 |
| 104           | 3.39E-03 | 5   | 6.79E-04 |
| 105           | 3.06E-03 | 5   | 6.12E-04 |
| 106           | 8.98E-03 | 5   | 1.80E-03 |
| 107           | 9.29E-03 | 5   | 1.86E-03 |
| 108           | 1.05E-02 | 5   | 2.10E-03 |
| 109           | 1.10E-02 | 5   | 2.19E-03 |
| 110           | 1.26E-02 | 5   | 2.51E-03 |
| 111           | 1.45E-02 | 5   | 2.90E-03 |
| 112           | 1.57E-02 | 5   | 3.14E-03 |
| 113           | 1.58E-02 | 5   | 3.16E-03 |
| 114           | 1.51E-02 | 5   | 3.02E-03 |
| 115           | 4.54E-03 | 5   | 9.09E-04 |
| 116           | 4.38E-03 | 5   | 8.76E-04 |
| 117           | 4.25E-03 | 5   | 8.51E-04 |
| 118           | 3.72E-03 | 5   | 7.45E-04 |
| 119           | 3.16E-03 | 5   | 6.32E-04 |
| 120           | 1.03E-02 | 5   | 2.06E-03 |
| 121           | 9.61E-03 | 5   | 1.92E-03 |
| 122           | 1.10E-02 | 5   | 2.19E-03 |
| 123           | 1.30E-02 | 5   | 2.60E-03 |
| 124           | 1.54E-02 | 5   | 3.08E-03 |
| 125           | 1.76E-02 | 5   | 3.52E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 126           | 2.19E-02 | 5   | 4.37E-03 |
| 127           | 2.61E-02 | 5   | 5.22E-03 |
| 128           | 7.29E-03 | 5   | 1.46E-03 |
| 129           | 6.13E-03 | 5   | 1.23E-03 |
| 130           | 5.17E-03 | 5   | 1.03E-03 |
| 131           | 4.22E-03 | 5   | 8.44E-04 |
| 132           | 2.90E-03 | 5   | 5.80E-04 |
| 133           | 9.45E-03 | 5   | 1.89E-03 |
| 134           | 1.19E-02 | 5   | 2.39E-03 |
| 135           | 1.50E-02 | 5   | 3.01E-03 |
| 136           | 1.75E-02 | 5   | 3.50E-03 |
| 137           | 2.14E-02 | 5   | 4.29E-03 |
| 138           | 3.01E-02 | 5   | 6.02E-03 |
| 139           | 6.34E-02 | 5   | 1.27E-02 |
| 140           | 7.44E-03 | 5   | 1.49E-03 |
| 141           | 5.87E-03 | 5   | 1.17E-03 |
| 142           | 4.85E-03 | 5   | 9.70E-04 |
| 143           | 3.25E-03 | 5   | 6.49E-04 |
| 144           | 1.39E-02 | 5   | 2.79E-03 |
| 145           | 1.84E-02 | 5   | 3.67E-03 |
| 146           | 2.20E-02 | 5   | 4.41E-03 |
| 147           | 2.94E-02 | 5   | 5.88E-03 |
| 148           | 4.32E-02 | 5   | 8.64E-03 |
| 149           | 3.90E-02 | 5   | 7.80E-03 |
| 150           | 2.26E-02 | 5   | 4.52E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 1.67E-02 | 5   | 3.34E-03 |
| 152           | 1.36E-02 | 5   | 2.72E-03 |
| 153           | 7.88E-03 | 5   | 1.58E-03 |
| 154           | 6.45E-03 | 5   | 1.29E-03 |
| 155           | 5.25E-03 | 5   | 1.05E-03 |
| 156           | 4.48E-03 | 5   | 8.96E-04 |
| 157           | 3.71E-02 | 5   | 7.42E-03 |
| 158           | 4.18E-02 | 5   | 8.36E-03 |
| 159           | 5.04E-02 | 5   | 1.01E-02 |
| 160           | 2.81E-02 | 5   | 5.62E-03 |
| 161           | 1.83E-02 | 5   | 3.67E-03 |
| 162           | 1.35E-02 | 5   | 2.70E-03 |
| 163           | 6.49E-03 | 5   | 1.30E-03 |
| 164           | 5.69E-03 | 5   | 1.14E-03 |
| 165           | 4.77E-03 | 5   | 9.55E-04 |
| 166           | 5.94E-02 | 5   | 1.19E-02 |
| 167           | 3.26E-02 | 5   | 6.52E-03 |
| 168           | 2.24E-02 | 5   | 4.48E-03 |
| 169           | 1.58E-02 | 5   | 3.16E-03 |
| 170           | 1.20E-02 | 5   | 2.41E-03 |
| 171           | 7.57E-03 | 5   | 1.51E-03 |
| 172           | 5.73E-03 | 5   | 1.15E-03 |
| 173           | 4.75E-03 | 5   | 9.50E-04 |
| 174           | 9.50E-02 | 5   | 1.90E-02 |
| 175           | 6.00E-02 | 5   | 1.20E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 176      | 3.70E-02 | 5   | 7.40E-03 |
| 177      | 2.51E-02 | 5   | 5.03E-03 |
| 178      | 1.77E-02 | 5   | 3.54E-03 |
| 179      | 1.28E-02 | 5   | 2.57E-03 |
| 180      | 9.93E-03 | 5   | 1.99E-03 |
| 181      | 6.89E-03 | 5   | 1.38E-03 |
| 182      | 5.62E-03 | 5   | 1.12E-03 |
| 183      | 7.94E-02 | 5   | 1.59E-02 |
| 184      | 5.62E-02 | 5   | 1.12E-02 |
| 185      | 3.92E-02 | 5   | 7.84E-03 |
| 186      | 2.68E-02 | 5   | 5.36E-03 |
| 187      | 1.96E-02 | 5   | 3.92E-03 |
| 188      | 1.45E-02 | 5   | 2.91E-03 |
| 189      | 1.12E-02 | 5   | 2.24E-03 |
| 190      | 8.93E-03 | 5   | 1.79E-03 |
| 191      | 9.25E-02 | 5   | 1.85E-02 |
| 192      | 6.69E-02 | 5   | 1.34E-02 |
| 193      | 4.95E-02 | 5   | 9.90E-03 |
| 194      | 3.70E-02 | 5   | 7.40E-03 |
| 195      | 2.73E-02 | 5   | 5.47E-03 |
| 196      | 2.05E-02 | 5   | 4.09E-03 |
| 197      | 1.58E-02 | 5   | 3.16E-03 |
| 198      | 1.21E-02 | 5   | 2.41E-03 |
| 199      | 9.72E-03 | 5   | 1.94E-03 |
| 200      | 8.02E-03 | 5   | 1.60E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 201           | 3.61E-02 | 5   | 7.22E-03 |
| 202           | 5.50E-02 | 5   | 1.10E-02 |
| 203           | 6.51E-02 | 5   | 1.30E-02 |
| 204           | 7.09E-02 | 5   | 1.42E-02 |
| 205           | 6.55E-02 | 5   | 1.31E-02 |
| 206           | 5.42E-02 | 5   | 1.08E-02 |
| 207           | 4.36E-02 | 5   | 8.73E-03 |
| 208           | 3.44E-02 | 5   | 6.88E-03 |
| 209           | 2.65E-02 | 5   | 5.31E-03 |
| 210           | 2.07E-02 | 5   | 4.14E-03 |
| 211           | 1.63E-02 | 5   | 3.26E-03 |
| 212           | 1.27E-02 | 5   | 2.55E-03 |
| 213           | 1.04E-02 | 5   | 2.08E-03 |
| 214           | 8.32E-03 | 5   | 1.66E-03 |
| 215           | 6.97E-03 | 5   | 1.39E-03 |
| 216           | 1.68E-02 | 5   | 3.36E-03 |
| 217           | 1.94E-02 | 5   | 3.89E-03 |
| 218           | 2.68E-02 | 5   | 5.35E-03 |
| 219           | 3.43E-02 | 5   | 6.87E-03 |
| 220           | 4.05E-02 | 5   | 8.10E-03 |
| 221           | 4.30E-02 | 5   | 8.61E-03 |
| 222           | 4.14E-02 | 5   | 8.27E-03 |
| 223           | 3.62E-02 | 5   | 7.24E-03 |
| 224           | 3.02E-02 | 5   | 6.05E-03 |
| 225           | 2.45E-02 | 5   | 4.90E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 226           | 1.97E-02 | 5   | 3.94E-03 |
| 227           | 1.60E-02 | 5   | 3.20E-03 |
| 228           | 1.29E-02 | 5   | 2.59E-03 |
| 229           | 1.05E-02 | 5   | 2.10E-03 |
| 230           | 8.64E-03 | 5   | 1.73E-03 |
| 231           | 6.91E-03 | 5   | 1.38E-03 |
| 232           | 1.18E-02 | 5   | 2.35E-03 |
| 233           | 1.24E-02 | 5   | 2.48E-03 |
| 234           | 1.64E-02 | 5   | 3.28E-03 |
| 235           | 2.10E-02 | 5   | 4.21E-03 |
| 236           | 2.57E-02 | 5   | 5.15E-03 |
| 237           | 3.01E-02 | 5   | 6.02E-03 |
| 238           | 3.07E-02 | 5   | 6.14E-03 |
| 239           | 2.85E-02 | 5   | 5.71E-03 |
| 240           | 2.53E-02 | 5   | 5.07E-03 |
| 241           | 2.15E-02 | 5   | 4.30E-03 |
| 242           | 1.81E-02 | 5   | 3.62E-03 |
| 243           | 1.51E-02 | 5   | 3.01E-03 |
| 244           | 1.26E-02 | 5   | 2.52E-03 |
| 245           | 1.02E-02 | 5   | 2.04E-03 |
| 246           | 8.66E-03 | 5   | 1.73E-03 |
| 247           | 7.02E-03 | 5   | 1.40E-03 |
| 248           | 9.61E-03 | 5   | 1.92E-03 |
| 249           | 9.51E-03 | 5   | 1.90E-03 |
| 250           | 1.11E-02 | 5   | 2.23E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 1.43E-02 | 5   | 2.86E-03 |
| 252           | 1.82E-02 | 5   | 3.63E-03 |
| 253           | 2.11E-02 | 5   | 4.22E-03 |
| 254           | 2.25E-02 | 5   | 4.50E-03 |
| 255           | 2.23E-02 | 5   | 4.47E-03 |
| 256           | 2.09E-02 | 5   | 4.18E-03 |
| 257           | 1.87E-02 | 5   | 3.74E-03 |
| 258           | 1.62E-02 | 5   | 3.24E-03 |
| 259           | 1.39E-02 | 5   | 2.79E-03 |
| 260           | 1.19E-02 | 5   | 2.39E-03 |
| 261           | 9.92E-03 | 5   | 1.98E-03 |
| 262           | 8.47E-03 | 5   | 1.69E-03 |
| 263           | 7.01E-03 | 5   | 1.40E-03 |
| 264           | 6.44E-03 | 5   | 1.29E-03 |
| 265           | 6.23E-03 | 5   | 1.25E-03 |
| 266           | 6.43E-03 | 5   | 1.29E-03 |
| 267           | 7.38E-03 | 5   | 1.48E-03 |
| 268           | 7.33E-03 | 5   | 1.47E-03 |
| 269           | 8.26E-03 | 5   | 1.65E-03 |
| 270           | 1.02E-02 | 5   | 2.04E-03 |
| 271           | 1.30E-02 | 5   | 2.60E-03 |
| 272           | 1.54E-02 | 5   | 3.08E-03 |
| 273           | 1.70E-02 | 5   | 3.40E-03 |
| 274           | 1.75E-02 | 5   | 3.51E-03 |
| 275           | 1.70E-02 | 5   | 3.40E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 276      | 1.59E-02 | 5   | 3.18E-03 |
| 277      | 1.43E-02 | 5   | 2.86E-03 |
| 278      | 1.27E-02 | 5   | 2.53E-03 |
| 279      | 1.11E-02 | 5   | 2.22E-03 |
| 280      | 9.48E-03 | 5   | 1.90E-03 |
| 281      | 8.01E-03 | 5   | 1.60E-03 |
| 282      | 6.75E-03 | 5   | 1.35E-03 |
| 283      | 5.12E-03 | 5   | 1.02E-03 |
| 284      | 4.91E-03 | 5   | 9.82E-04 |
| 285      | 4.81E-03 | 5   | 9.62E-04 |
| 286      | 5.09E-03 | 5   | 1.02E-03 |
| 287      | 5.81E-03 | 5   | 1.16E-03 |
| 288      | 6.33E-03 | 5   | 1.27E-03 |
| 289      | 6.59E-03 | 5   | 1.32E-03 |
| 290      | 7.97E-03 | 5   | 1.59E-03 |
| 291      | 9.72E-03 | 5   | 1.94E-03 |
| 292      | 1.16E-02 | 5   | 2.31E-03 |
| 293      | 1.31E-02 | 5   | 2.61E-03 |
| 294      | 1.39E-02 | 5   | 2.78E-03 |
| 295      | 1.40E-02 | 5   | 2.79E-03 |
| 296      | 1.35E-02 | 5   | 2.70E-03 |
| 297      | 1.26E-02 | 5   | 2.52E-03 |
| 298      | 1.14E-02 | 5   | 2.28E-03 |
| 299      | 1.02E-02 | 5   | 2.04E-03 |
| 300      | 8.91E-03 | 5   | 1.78E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 7.34E-03 | 5   | 1.47E-03 |
| 302           | 6.46E-03 | 5   | 1.29E-03 |
| 303           | 4.35E-03 | 5   | 8.70E-04 |
| 304           | 3.99E-03 | 5   | 7.98E-04 |
| 305           | 3.94E-03 | 5   | 7.89E-04 |
| 306           | 3.82E-03 | 5   | 7.64E-04 |
| 307           | 3.93E-03 | 5   | 7.85E-04 |
| 308           | 4.34E-03 | 5   | 8.68E-04 |
| 309           | 4.90E-03 | 5   | 9.80E-04 |
| 310           | 5.31E-03 | 5   | 1.06E-03 |
| 311           | 6.26E-03 | 5   | 1.25E-03 |
| 312           | 7.52E-03 | 5   | 1.50E-03 |
| 313           | 8.93E-03 | 5   | 1.79E-03 |
| 314           | 1.02E-02 | 5   | 2.04E-03 |
| 315           | 1.11E-02 | 5   | 2.23E-03 |
| 316           | 1.15E-02 | 5   | 2.31E-03 |
| 317           | 1.14E-02 | 5   | 2.28E-03 |
| 318           | 1.09E-02 | 5   | 2.18E-03 |
| 319           | 1.02E-02 | 5   | 2.03E-03 |
| 320           | 9.18E-03 | 5   | 1.84E-03 |
| 321           | 8.23E-03 | 5   | 1.65E-03 |
| 322           | 6.83E-03 | 5   | 1.37E-03 |
| 323           | 6.12E-03 | 5   | 1.22E-03 |
| 324           | 4.23E-03 | 5   | 8.46E-04 |
| 325           | 3.68E-03 | 5   | 7.36E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 326           | 3.59E-03 | 5   | 7.17E-04 |
| 327           | 3.25E-03 | 5   | 6.50E-04 |
| 328           | 3.25E-03 | 5   | 6.49E-04 |
| 329           | 3.52E-03 | 5   | 7.04E-04 |
| 330           | 3.67E-03 | 5   | 7.34E-04 |
| 331           | 3.98E-03 | 5   | 7.97E-04 |
| 332           | 4.47E-03 | 5   | 8.95E-04 |
| 333           | 5.08E-03 | 5   | 1.02E-03 |
| 334           | 5.98E-03 | 5   | 1.20E-03 |
| 335           | 7.05E-03 | 5   | 1.41E-03 |
| 336           | 8.12E-03 | 5   | 1.62E-03 |
| 337           | 8.97E-03 | 5   | 1.79E-03 |
| 338           | 9.54E-03 | 5   | 1.91E-03 |
| 339           | 9.70E-03 | 5   | 1.94E-03 |
| 340           | 9.48E-03 | 5   | 1.90E-03 |
| 341           | 9.02E-03 | 5   | 1.80E-03 |
| 342           | 8.10E-03 | 5   | 1.62E-03 |
| 343           | 7.46E-03 | 5   | 1.49E-03 |
| 344           | 6.36E-03 | 5   | 1.27E-03 |
| 345           | 5.76E-03 | 5   | 1.15E-03 |
| 346           | 3.22E-03 | 5   | 6.44E-04 |
| 347           | 3.09E-03 | 5   | 6.19E-04 |
| 348           | 2.96E-03 | 5   | 5.93E-04 |
| 349           | 2.81E-03 | 5   | 5.62E-04 |
| 350           | 2.84E-03 | 5   | 5.68E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 3.02E-03 | 5   | 6.05E-04 |
| 352           | 3.21E-03 | 5   | 6.43E-04 |
| 353           | 3.41E-03 | 5   | 6.81E-04 |
| 354           | 3.74E-03 | 5   | 7.47E-04 |
| 355           | 4.10E-03 | 5   | 8.19E-04 |
| 356           | 4.89E-03 | 5   | 9.77E-04 |
| 357           | 5.70E-03 | 5   | 1.14E-03 |
| 358           | 6.57E-03 | 5   | 1.31E-03 |
| 359           | 7.34E-03 | 5   | 1.47E-03 |
| 360           | 7.93E-03 | 5   | 1.59E-03 |
| 361           | 8.21E-03 | 5   | 1.64E-03 |
| 362           | 8.25E-03 | 5   | 1.65E-03 |
| 363           | 7.99E-03 | 5   | 1.60E-03 |
| 364           | 7.23E-03 | 5   | 1.45E-03 |
| 365           | 6.77E-03 | 5   | 1.35E-03 |
| 366           | 5.89E-03 | 5   | 1.18E-03 |
| 367           | 5.39E-03 | 5   | 1.08E-03 |
| 368           | 2.79E-03 | 5   | 5.59E-04 |
| 369           | 2.74E-03 | 5   | 5.48E-04 |
| 370           | 2.59E-03 | 5   | 5.18E-04 |
| 371           | 2.42E-03 | 5   | 4.84E-04 |
| 372           | 2.52E-03 | 5   | 5.03E-04 |
| 373           | 2.45E-03 | 5   | 4.91E-04 |
| 374           | 2.68E-03 | 5   | 5.35E-04 |
| 375           | 2.78E-03 | 5   | 5.57E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 3.05E-03    | 5          | 6.09E-04  |
| 377      | 3.29E-03    | 5          | 6.59E-04  |
| 378      | 3.51E-03    | 5          | 7.01E-04  |
| 379      | 4.05E-03    | 5          | 8.10E-04  |
| 380      | 4.48E-03    | 5          | 8.97E-04  |
| 381      | 5.40E-03    | 5          | 1.08E-03  |
| 382      | 6.08E-03    | 5          | 1.22E-03  |
| 383      | 6.63E-03    | 5          | 1.33E-03  |
| 384      | 6.99E-03    | 5          | 1.40E-03  |
| 385      | 7.11E-03    | 5          | 1.42E-03  |
| 386      | 6.98E-03    | 5          | 1.40E-03  |
| 387      | 6.45E-03    | 5          | 1.29E-03  |
| 388      | 6.11E-03    | 5          | 1.22E-03  |
| 389      | 5.45E-03    | 5          | 1.09E-03  |
| 390      | 5.03E-03    | 5          | 1.01E-03  |

**Risk Calculations - 3rd Trimester Start  
Construction Phase 3C**

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor |         | Consta |         |      |   |      |       |          |     |     |      |    | RISK |         | (Risk/  |          |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|------|---------|---------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH  | (0-2)   | Mill)   |          |
| 1        | 0.14257 | 0.0068 | 9.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 1.02E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.4E-08 | 1.4E-02 | Max      |
| 2        | 0.13369 | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.55E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.3E-08 | 1.3E-02 | 8.23E-01 |
| 3        | 0.12214 | 0.0068 | 8.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.73E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.2E-08 | 1.2E-02 |          |
| 4        | 0.11318 | 0.0068 | 7.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.09E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.1E-08 | 1.1E-02 |          |
| 5        | 0.10329 | 0.0068 | 7.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.38E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 9.9E-09 | 9.9E-03 |          |
| 6        | 0.0959  | 0.0068 | 6.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 6.85E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 9.2E-09 | 9.2E-03 |          |
| 7        | 0.18122 | 0.0068 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.29E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.7E-08 | 1.7E-02 |          |
| 8        | 0.16599 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.19E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.6E-08 | 1.6E-02 |          |
| 9        | 0.14564 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.04E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.4E-08 | 1.4E-02 |          |
| 10       | 0.13566 | 0.0068 | 9.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.69E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.3E-08 | 1.3E-02 |          |
| 11       | 0.11905 | 0.0068 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.51E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.1E-08 | 1.1E-02 |          |
| 12       | 0.11174 | 0.0068 | 7.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.98E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.1E-08 | 1.1E-02 |          |
| 13       | 0.10516 | 0.0068 | 7.2E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.51E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.0E-08 | 1.0E-02 |          |
| 14       | 0.19891 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.42E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.9E-08 | 1.9E-02 |          |
| 15       | 0.18538 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.32E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.8E-08 | 1.8E-02 |          |
| 16       | 0.16647 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.19E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.6E-08 | 1.6E-02 |          |
| 17       | 0.14661 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.05E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.4E-08 | 1.4E-02 |          |
| 18       | 0.13322 | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.52E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.3E-08 | 1.3E-02 |          |
| 19       | 0.12149 | 0.0068 | 8.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.68E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.2E-08 | 1.2E-02 |          |
| 20       | 0.11331 | 0.0068 | 7.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.10E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.1E-08 | 1.1E-02 |          |
| 21       | 0.43801 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.13E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 4.2E-08 | 4.2E-02 |          |
| 22       | 0.5016  | 0.0068 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.58E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 4.8E-08 | 4.8E-02 |          |
| 23       | 0.53845 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.85E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 5.2E-08 | 5.2E-02 |          |
| 24       | 0.55059 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.93E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 5.3E-08 | 5.3E-02 |          |
| 25       | 0.61064 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.36E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 5.9E-08 | 5.9E-02 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 26       | 0.59517 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.25E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 27       | 0.54814 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.92E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 28       | 0.48705 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.48E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 29       | 0.41251 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.95E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 30       | 0.27062 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.93E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 31       | 0.24985 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.79E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 32       | 0.20383 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.46E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 33       | 0.19347 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.38E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-08 | 1.9E-02 |
| 34       | 0.16069 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-08 | 1.5E-02 |
| 35       | 0.14853 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.06E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 36       | 0.1328  | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.49E-07 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-08 | 1.3E-02 |
| 37       | 0.12553 | 0.0068 | 8.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.97E-07 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-08 | 1.2E-02 |
| 38       | 0.59038 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.22E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 39       | 0.53496 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.82E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 40       | 0.57248 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 41       | 0.58509 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.18E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 42       | 0.61645 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.40E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 43       | 0.63781 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.56E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 44       | 0.60659 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.33E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.8E-08 | 5.8E-02 |
| 45       | 0.53649 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.83E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.2E-08 | 5.2E-02 |
| 46       | 0.4596  | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.28E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 47       | 0.41777 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.99E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 48       | 0.3294  | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 49       | 0.28523 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.04E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 50       | 0.25804 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.84E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-08 | 2.5E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 51       | 0.23121 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.65E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 52       | 0.18436 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.32E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 53       | 0.16289 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 54       | 0.14939 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 55       | 0.15235 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-08 | 1.5E-02 |
| 56       | 0.55797 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.99E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 57       | 0.56885 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.06E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 58       | 0.58821 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.20E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 59       | 0.68345 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.88E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.6E-08 | 6.6E-02 |
| 60       | 0.69254 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.95E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.7E-08 | 6.7E-02 |
| 61       | 0.73699 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.27E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 62       | 0.72167 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |
| 63       | 0.62652 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.48E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.0E-08 | 6.0E-02 |
| 64       | 0.56525 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.04E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 65       | 0.46307 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.31E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 66       | 0.46763 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.34E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 67       | 0.32884 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 68       | 0.29277 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 69       | 0.27065 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.93E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 70       | 0.26125 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.87E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 71       | 0.20425 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.46E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 72       | 0.1906  | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.36E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 73       | 0.22012 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 74       | 0.62675 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.48E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.0E-08 | 6.0E-02 |
| 75       | 0.65056 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.65E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.3E-08 | 6.3E-02 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 76       | 0.65456 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.68E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.3E-08 | 6.3E-02 |
| 77       | 0.73638 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.26E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 78       | 0.8471  | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.05E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 79       | 0.88849 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.6E-08 | 8.6E-02 |
| 80       | 0.90496 | 0.0068 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.47E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.7E-08 | 8.7E-02 |
| 81       | 0.82607 | 0.0068 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.90E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.0E-08 | 8.0E-02 |
| 82       | 0.70876 | 0.0068 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.06E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.8E-08 | 6.8E-02 |
| 83       | 0.59652 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.26E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 84       | 0.67997 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.86E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 85       | 0.34615 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.47E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 86       | 0.31525 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.25E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 87       | 0.30195 | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 88       | 0.28593 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.04E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 89       | 0.2696  | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.93E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 90       | 0.25777 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.84E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 91       | 0.7657  | 0.0068 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.47E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.4E-08 | 7.4E-02 |
| 92       | 0.78216 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.59E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.5E-08 | 7.5E-02 |
| 93       | 0.89506 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.40E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.6E-08 | 8.6E-02 |
| 94       | 0.94714 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.77E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.1E-08 | 9.1E-02 |
| 95       | 1.04003 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.43E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 96       | 1.12421 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.03E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 97       | 1.04229 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.45E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 98       | 0.90305 | 0.0068 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.45E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.7E-08 | 8.7E-02 |
| 99       | 0.88258 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.31E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.5E-08 | 8.5E-02 |
| 100      | 0.44117 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.2E-08 | 4.2E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 101      | 0.36795 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.63E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 102      | 0.34454 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.46E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 103      | 0.32801 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.34E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 104      | 0.30575 | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.18E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 105      | 0.27575 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.97E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 106      | 0.80913 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.78E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 107      | 0.83667 | 0.0068 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.98E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.1E-08 | 8.1E-02 |
| 108      | 0.94434 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.75E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.1E-08 | 9.1E-02 |
| 109      | 0.98691 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.05E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.5E-08 | 9.5E-02 |
| 110      | 1.13153 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.08E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 111      | 1.3058  | 0.0068 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.33E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 112      | 1.41351 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.01E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 113      | 1.42196 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.02E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 114      | 1.36036 | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 115      | 0.40925 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.92E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 116      | 0.39445 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.82E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 117      | 0.38313 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.74E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 118      | 0.33537 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.40E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 119      | 0.28473 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.03E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 120      | 0.92954 | 0.0068 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.64E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 121      | 0.86551 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.18E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.3E-08 | 8.3E-02 |
| 122      | 0.98739 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.06E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.5E-08 | 9.5E-02 |
| 123      | 1.16933 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 124      | 1.386   | 0.0068 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.90E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 125      | 1.58316 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.13E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 126      | 1.96907 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.41E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 127      | 2.35262 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.68E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 128      | 0.65638 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.69E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.3E-08 | 6.3E-02 |
| 129      | 0.55176 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.94E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 130      | 0.46604 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.33E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 131      | 0.38018 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 132      | 0.26126 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.87E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 133      | 0.85154 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.08E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 134      | 1.07595 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.69E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 135      | 1.3543  | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.68E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 136      | 1.57548 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.13E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 137      | 1.93144 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.38E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 138      | 2.71283 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.94E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-07 | 2.6E-01 |
| 139      | 5.71455 | 0.0068 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.08E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.5E-07 | 5.5E-01 |
| 140      | 0.67028 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.79E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 141      | 0.52905 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.78E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 142      | 0.43694 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.12E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 143      | 0.29239 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 144      | 1.25505 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.97E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 145      | 1.65273 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.18E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 146      | 1.98418 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.42E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 147      | 2.64664 | 0.0068 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.89E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-07 | 2.5E-01 |
| 148      | 3.89148 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.78E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.7E-07 | 3.7E-01 |
| 149      | 3.51153 | 0.0068 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.51E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.4E-07 | 3.4E-01 |
| 150      | 2.03503 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.45E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.0E-07 | 2.0E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 151      | 1.50481 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 152      | 1.22329 | 0.0068 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.74E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 153      | 0.70991 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.8E-08 | 6.8E-02 |
| 154      | 0.58106 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 155      | 0.47279 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.38E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 156      | 0.40353 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 157      | 3.34251 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.39E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-07 | 3.2E-01 |
| 158      | 3.76257 | 0.0068 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.6E-07 | 3.6E-01 |
| 159      | 4.54045 | 0.0068 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.24E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-07 | 4.4E-01 |
| 160      | 2.52972 | 0.0068 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-07 | 2.4E-01 |
| 161      | 1.65138 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 162      | 1.21511 | 0.0068 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.68E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 163      | 0.58478 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.18E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 164      | 0.51231 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 165      | 0.43002 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 166      | 5.34751 | 0.0068 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.82E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.1E-07 | 5.1E-01 |
| 167      | 2.93781 | 0.0068 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.10E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-07 | 2.8E-01 |
| 168      | 2.01593 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 169      | 1.42521 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 170      | 1.08462 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.75E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 171      | 0.68161 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.87E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.6E-08 | 6.6E-02 |
| 172      | 0.51579 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.69E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.0E-08 | 5.0E-02 |
| 173      | 0.42776 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.06E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 174      | 8.55485 | 0.0068 | 5.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.11E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 8.2E-07 | 8.2E-01 |
| 175      | 5.40053 | 0.0068 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.86E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.2E-07 | 5.2E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 176      | 3.33391 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.38E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-07 | 3.2E-01 |
| 177      | 2.2635  | 0.0068 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-07 | 2.2E-01 |
| 178      | 1.59628 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 179      | 1.15673 | 0.0068 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.26E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 180      | 0.89425 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.39E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.6E-08 | 8.6E-02 |
| 181      | 0.62061 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.43E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.0E-08 | 6.0E-02 |
| 182      | 0.50601 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.62E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 183      | 7.15077 | 0.0068 | 4.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.11E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-07 | 6.9E-01 |
| 184      | 5.06388 | 0.0068 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.62E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 4.9E-07 | 4.9E-01 |
| 185      | 3.52857 | 0.0068 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.52E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.4E-07 | 3.4E-01 |
| 186      | 2.41297 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 187      | 1.76478 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 188      | 1.30975 | 0.0068 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.36E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 189      | 1.01047 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.22E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.7E-08 | 9.7E-02 |
| 190      | 0.80384 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.74E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.7E-08 | 7.7E-02 |
| 191      | 8.32687 | 0.0068 | 5.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.95E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 8.0E-07 | 8.0E-01 |
| 192      | 6.02533 | 0.0068 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.31E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.8E-07 | 5.8E-01 |
| 193      | 4.45973 | 0.0068 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.19E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 4.3E-07 | 4.3E-01 |
| 194      | 3.33262 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.38E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-07 | 3.2E-01 |
| 195      | 2.46305 | 0.0068 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-07 | 2.4E-01 |
| 196      | 1.84191 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 197      | 1.42077 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 198      | 1.08702 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.77E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 199      | 0.87584 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.26E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.4E-08 | 8.4E-02 |
| 200      | 0.72192 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 201      | 3.24959 | 0.0068 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.32E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.1E-07 | 3.1E-01 |
| 202      | 4.95098 | 0.0068 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.54E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 4.8E-07 | 4.8E-01 |
| 203      | 5.8668  | 0.0068 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.19E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-07 | 5.6E-01 |
| 204      | 6.38123 | 0.0068 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.56E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-07 | 6.1E-01 |
| 205      | 5.89622 | 0.0068 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.21E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-07 | 5.7E-01 |
| 206      | 4.88452 | 0.0068 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.49E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 4.7E-07 | 4.7E-01 |
| 207      | 3.92915 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.81E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.8E-07 | 3.8E-01 |
| 208      | 3.09747 | 0.0068 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.0E-07 | 3.0E-01 |
| 209      | 2.38952 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 210      | 1.86639 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 211      | 1.46676 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 212      | 1.14687 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.19E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 213      | 0.93847 | 0.0068 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.71E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.0E-08 | 9.0E-02 |
| 214      | 0.74904 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.2E-08 | 7.2E-02 |
| 215      | 0.62804 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.49E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.0E-08 | 6.0E-02 |
| 216      | 1.51358 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 217      | 1.75108 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 218      | 2.40965 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 219      | 3.09162 | 0.0068 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.0E-07 | 3.0E-01 |
| 220      | 3.64843 | 0.0068 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.61E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.5E-07 | 3.5E-01 |
| 221      | 3.87704 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.77E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.7E-07 | 3.7E-01 |
| 222      | 3.7245  | 0.0068 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.66E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.6E-07 | 3.6E-01 |
| 223      | 3.25928 | 0.0068 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.33E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.1E-07 | 3.1E-01 |
| 224      | 2.72345 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.95E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-07 | 2.6E-01 |
| 225      | 2.20632 | 0.0068 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.1E-07 | 2.1E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 226      | 1.77318 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 227      | 1.44239 | 0.0068 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 228      | 1.16513 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.32E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 229      | 0.94394 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.1E-08 | 9.1E-02 |
| 230      | 0.77791 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.56E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.5E-08 | 7.5E-02 |
| 231      | 0.62195 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.44E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.0E-08 | 6.0E-02 |
| 232      | 1.05953 | 0.0068 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 233      | 1.11661 | 0.0068 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.98E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 234      | 1.47792 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 235      | 1.89467 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 236      | 2.31891 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-07 | 2.2E-01 |
| 237      | 2.71307 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.94E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-07 | 2.6E-01 |
| 238      | 2.76677 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.7E-07 | 2.7E-01 |
| 239      | 2.56931 | 0.0068 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-07 | 2.5E-01 |
| 240      | 2.2825  | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-07 | 2.2E-01 |
| 241      | 1.93631 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 242      | 1.63045 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 243      | 1.35634 | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.69E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 244      | 1.13547 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.11E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 245      | 0.91896 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.8E-08 | 8.8E-02 |
| 246      | 0.77965 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.5E-08 | 7.5E-02 |
| 247      | 0.63206 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.52E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 248      | 0.86538 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.3E-08 | 8.3E-02 |
| 249      | 0.85659 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.12E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 250      | 1.00342 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.17E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.7E-08 | 9.7E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 251      | 1.28849 | 0.0068 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.21E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 252      | 1.63636 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.17E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 253      | 1.90198 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.36E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 254      | 2.02634 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.45E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.0E-07 | 2.0E-01 |
| 255      | 2.01179 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.44E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 256      | 1.88256 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.35E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 257      | 1.68205 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.20E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 258      | 1.46116 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.04E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 259      | 1.25462 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.96E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 260      | 1.07567 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.69E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 261      | 0.89369 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.39E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.6E-08 | 8.6E-02 |
| 262      | 0.7632  | 0.0068 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.45E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.3E-08 | 7.3E-02 |
| 263      | 0.63167 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.51E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 264      | 0.58009 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.14E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 265      | 0.56073 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.01E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 266      | 0.57902 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.14E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 267      | 0.66488 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.75E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 268      | 0.66061 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 269      | 0.74394 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.32E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.2E-08 | 7.2E-02 |
| 270      | 0.92034 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.58E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 271      | 1.1693  | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 272      | 1.38588 | 0.0068 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.90E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 273      | 1.53028 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.09E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 274      | 1.58042 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.13E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 275      | 1.5324  | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.09E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 276      | 1.43091 | 0.0068 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 277      | 1.28867 | 0.0068 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.21E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 278      | 1.14049 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 279      | 1.0007  | 0.0068 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.6E-08 | 9.6E-02 |
| 280      | 0.85395 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.10E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 281      | 0.7216  | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |
| 282      | 0.60823 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 283      | 0.46088 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.29E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 284      | 0.44204 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.3E-08 | 4.3E-02 |
| 285      | 0.43325 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.10E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 286      | 0.45841 | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.28E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 287      | 0.52307 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.74E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.0E-08 | 5.0E-02 |
| 288      | 0.56987 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 289      | 0.59322 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.24E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 290      | 0.71744 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.13E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |
| 291      | 0.87548 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.26E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.4E-08 | 8.4E-02 |
| 292      | 1.04219 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.45E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 293      | 1.17605 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.40E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 294      | 1.25313 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.95E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 295      | 1.25792 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.99E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 296      | 1.21473 | 0.0068 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.68E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 297      | 1.13348 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.10E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 298      | 1.02677 | 0.0068 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.34E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.9E-08 | 9.9E-02 |
| 299      | 0.91652 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.55E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.8E-08 | 8.8E-02 |
| 300      | 0.80208 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.73E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.7E-08 | 7.7E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 301      | 0.6609  | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 302      | 0.58197 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 303      | 0.39159 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.80E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 304      | 0.35914 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 305      | 0.35529 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.54E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 306      | 0.34386 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.46E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 307      | 0.35356 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.53E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 308      | 0.39073 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.79E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 309      | 0.44141 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 310      | 0.47846 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.42E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 311      | 0.56418 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.03E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 312      | 0.67741 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.84E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 313      | 0.80426 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.75E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.7E-08 | 7.7E-02 |
| 314      | 0.92054 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.58E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 315      | 1.00261 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.6E-08 | 9.6E-02 |
| 316      | 1.03928 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.43E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 317      | 1.02828 | 0.0068 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.9E-08 | 9.9E-02 |
| 318      | 0.98264 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.02E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.5E-08 | 9.5E-02 |
| 319      | 0.91474 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.54E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.8E-08 | 8.8E-02 |
| 320      | 0.82666 | 0.0068 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.91E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.0E-08 | 8.0E-02 |
| 321      | 0.74121 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.30E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 322      | 0.6153  | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.40E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 323      | 0.55156 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.94E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 324      | 0.38105 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 325      | 0.33126 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.37E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 326      | 0.32305 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.31E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.1E-08 | 3.1E-02 |
| 327      | 0.29252 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 328      | 0.29248 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 329      | 0.317   | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.27E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.1E-08 | 3.1E-02 |
| 330      | 0.33066 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.36E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 331      | 0.35869 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.56E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 332      | 0.40288 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.88E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 333      | 0.4573  | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.27E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 334      | 0.53898 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.85E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.2E-08 | 5.2E-02 |
| 335      | 0.63508 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.54E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 336      | 0.73114 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.22E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.0E-08 | 7.0E-02 |
| 337      | 0.80795 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.77E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 338      | 0.85925 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.14E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.3E-08 | 8.3E-02 |
| 339      | 0.87375 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.24E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.4E-08 | 8.4E-02 |
| 340      | 0.85425 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.10E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 341      | 0.81269 | 0.0068 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.81E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 342      | 0.72959 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.21E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.0E-08 | 7.0E-02 |
| 343      | 0.67174 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.80E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 344      | 0.57305 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 345      | 0.51872 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.71E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.0E-08 | 5.0E-02 |
| 346      | 0.29019 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 347      | 0.27864 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.99E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 348      | 0.26697 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.91E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 349      | 0.25326 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.81E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 350      | 0.25562 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.83E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-08 | 2.5E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 351      | 0.2724  | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.95E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 352      | 0.28943 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 353      | 0.3067  | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.19E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 354      | 0.33648 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.40E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 355      | 0.3689  | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.64E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 356      | 0.44002 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.14E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 357      | 0.51306 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.67E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 358      | 0.59206 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.23E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 359      | 0.66144 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.73E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 360      | 0.71417 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.10E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |
| 361      | 0.73968 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.29E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 362      | 0.74345 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.31E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.2E-08 | 7.2E-02 |
| 363      | 0.71982 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.14E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |
| 364      | 0.65107 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.65E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.3E-08 | 6.3E-02 |
| 365      | 0.60983 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.36E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 366      | 0.53056 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.79E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 367      | 0.48574 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.47E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 368      | 0.25159 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.80E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 369      | 0.24678 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.76E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 370      | 0.23335 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.67E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 371      | 0.21774 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.56E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 372      | 0.22662 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.62E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 373      | 0.22108 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.58E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 374      | 0.24111 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.3E-08 | 2.3E-02 |
| 375      | 0.25062 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.79E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-08 | 2.4E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 376      | 0.27425 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.96E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 377      | 0.29662 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.12E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 378      | 0.31582 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.26E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 379      | 0.36484 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.61E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 380      | 0.40393 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.89E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 381      | 0.48601 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.47E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 382      | 0.5477  | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.91E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 383      | 0.59749 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.27E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.8E-08 | 5.8E-02 |
| 384      | 0.62971 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.50E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 385      | 0.64012 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.2E-08 | 6.2E-02 |
| 386      | 0.62903 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.49E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 387      | 0.5807  | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 388      | 0.55072 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.93E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 389      | 0.49043 | 0.0068 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.50E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 390      | 0.45288 | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.24E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-08 | 4.4E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 9.75E-04 | 5   | 1.95E-04 | 1.17E-02 |
| 2  | 9.14E-04 | 5   | 1.83E-04 |          |
| 3  | 8.35E-04 | 5   | 1.67E-04 |          |
| 4  | 7.74E-04 | 5   | 1.55E-04 |          |
| 5  | 7.06E-04 | 5   | 1.41E-04 |          |
| 6  | 6.56E-04 | 5   | 1.31E-04 |          |
| 7  | 1.24E-03 | 5   | 2.48E-04 |          |
| 8  | 1.13E-03 | 5   | 2.27E-04 |          |
| 9  | 9.96E-04 | 5   | 1.99E-04 |          |
| 10 | 9.27E-04 | 5   | 1.85E-04 |          |
| 11 | 8.14E-04 | 5   | 1.63E-04 |          |
| 12 | 7.64E-04 | 5   | 1.53E-04 |          |
| 13 | 7.19E-04 | 5   | 1.44E-04 |          |
| 14 | 1.36E-03 | 5   | 2.72E-04 |          |
| 15 | 1.27E-03 | 5   | 2.53E-04 |          |
| 16 | 1.14E-03 | 5   | 2.28E-04 |          |
| 17 | 1.00E-03 | 5   | 2.00E-04 |          |
| 18 | 9.11E-04 | 5   | 1.82E-04 |          |
| 19 | 8.31E-04 | 5   | 1.66E-04 |          |
| 20 | 7.75E-04 | 5   | 1.55E-04 |          |
| 21 | 2.99E-03 | 5   | 5.99E-04 |          |
| 22 | 3.43E-03 | 5   | 6.86E-04 |          |
| 23 | 3.68E-03 | 5   | 7.36E-04 |          |
| 24 | 3.76E-03 | 5   | 7.53E-04 |          |
| 25 | 4.17E-03 | 5   | 8.35E-04 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 4.07E-03    | 5          | 8.14E-04  |
| 27       | 3.75E-03    | 5          | 7.49E-04  |
| 28       | 3.33E-03    | 5          | 6.66E-04  |
| 29       | 2.82E-03    | 5          | 5.64E-04  |
| 30       | 1.85E-03    | 5          | 3.70E-04  |
| 31       | 1.71E-03    | 5          | 3.42E-04  |
| 32       | 1.39E-03    | 5          | 2.79E-04  |
| 33       | 1.32E-03    | 5          | 2.65E-04  |
| 34       | 1.10E-03    | 5          | 2.20E-04  |
| 35       | 1.02E-03    | 5          | 2.03E-04  |
| 36       | 9.08E-04    | 5          | 1.82E-04  |
| 37       | 8.58E-04    | 5          | 1.72E-04  |
| 38       | 4.04E-03    | 5          | 8.07E-04  |
| 39       | 3.66E-03    | 5          | 7.31E-04  |
| 40       | 3.91E-03    | 5          | 7.83E-04  |
| 41       | 4.00E-03    | 5          | 8.00E-04  |
| 42       | 4.21E-03    | 5          | 8.43E-04  |
| 43       | 4.36E-03    | 5          | 8.72E-04  |
| 44       | 4.15E-03    | 5          | 8.29E-04  |
| 45       | 3.67E-03    | 5          | 7.33E-04  |
| 46       | 3.14E-03    | 5          | 6.28E-04  |
| 47       | 2.86E-03    | 5          | 5.71E-04  |
| 48       | 2.25E-03    | 5          | 4.50E-04  |
| 49       | 1.95E-03    | 5          | 3.90E-04  |
| 50       | 1.76E-03    | 5          | 3.53E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 1.58E-03    | 5          | 3.16E-04  |
| 52       | 1.26E-03    | 5          | 2.52E-04  |
| 53       | 1.11E-03    | 5          | 2.23E-04  |
| 54       | 1.02E-03    | 5          | 2.04E-04  |
| 55       | 1.04E-03    | 5          | 2.08E-04  |
| 56       | 3.81E-03    | 5          | 7.63E-04  |
| 57       | 3.89E-03    | 5          | 7.78E-04  |
| 58       | 4.02E-03    | 5          | 8.04E-04  |
| 59       | 4.67E-03    | 5          | 9.34E-04  |
| 60       | 4.73E-03    | 5          | 9.47E-04  |
| 61       | 5.04E-03    | 5          | 1.01E-03  |
| 62       | 4.93E-03    | 5          | 9.87E-04  |
| 63       | 4.28E-03    | 5          | 8.57E-04  |
| 64       | 3.86E-03    | 5          | 7.73E-04  |
| 65       | 3.17E-03    | 5          | 6.33E-04  |
| 66       | 3.20E-03    | 5          | 6.39E-04  |
| 67       | 2.25E-03    | 5          | 4.50E-04  |
| 68       | 2.00E-03    | 5          | 4.00E-04  |
| 69       | 1.85E-03    | 5          | 3.70E-04  |
| 70       | 1.79E-03    | 5          | 3.57E-04  |
| 71       | 1.40E-03    | 5          | 2.79E-04  |
| 72       | 1.30E-03    | 5          | 2.61E-04  |
| 73       | 1.50E-03    | 5          | 3.01E-04  |
| 74       | 4.28E-03    | 5          | 8.57E-04  |
| 75       | 4.45E-03    | 5          | 8.89E-04  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 4.47E-03    | 5          | 8.95E-04  |
| 77       | 5.03E-03    | 5          | 1.01E-03  |
| 78       | 5.79E-03    | 5          | 1.16E-03  |
| 79       | 6.07E-03    | 5          | 1.21E-03  |
| 80       | 6.19E-03    | 5          | 1.24E-03  |
| 81       | 5.65E-03    | 5          | 1.13E-03  |
| 82       | 4.85E-03    | 5          | 9.69E-04  |
| 83       | 4.08E-03    | 5          | 8.16E-04  |
| 84       | 4.65E-03    | 5          | 9.30E-04  |
| 85       | 2.37E-03    | 5          | 4.73E-04  |
| 86       | 2.16E-03    | 5          | 4.31E-04  |
| 87       | 2.06E-03    | 5          | 4.13E-04  |
| 88       | 1.95E-03    | 5          | 3.91E-04  |
| 89       | 1.84E-03    | 5          | 3.69E-04  |
| 90       | 1.76E-03    | 5          | 3.52E-04  |
| 91       | 5.23E-03    | 5          | 1.05E-03  |
| 92       | 5.35E-03    | 5          | 1.07E-03  |
| 93       | 6.12E-03    | 5          | 1.22E-03  |
| 94       | 6.47E-03    | 5          | 1.29E-03  |
| 95       | 7.11E-03    | 5          | 1.42E-03  |
| 96       | 7.69E-03    | 5          | 1.54E-03  |
| 97       | 7.13E-03    | 5          | 1.43E-03  |
| 98       | 6.17E-03    | 5          | 1.23E-03  |
| 99       | 6.03E-03    | 5          | 1.21E-03  |
| 100      | 3.02E-03    | 5          | 6.03E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 2.52E-03 | 5   | 5.03E-04 |
| 102           | 2.36E-03 | 5   | 4.71E-04 |
| 103           | 2.24E-03 | 5   | 4.48E-04 |
| 104           | 2.09E-03 | 5   | 4.18E-04 |
| 105           | 1.89E-03 | 5   | 3.77E-04 |
| 106           | 5.53E-03 | 5   | 1.11E-03 |
| 107           | 5.72E-03 | 5   | 1.14E-03 |
| 108           | 6.46E-03 | 5   | 1.29E-03 |
| 109           | 6.75E-03 | 5   | 1.35E-03 |
| 110           | 7.74E-03 | 5   | 1.55E-03 |
| 111           | 8.93E-03 | 5   | 1.79E-03 |
| 112           | 9.66E-03 | 5   | 1.93E-03 |
| 113           | 9.72E-03 | 5   | 1.94E-03 |
| 114           | 9.30E-03 | 5   | 1.86E-03 |
| 115           | 2.80E-03 | 5   | 5.60E-04 |
| 116           | 2.70E-03 | 5   | 5.39E-04 |
| 117           | 2.62E-03 | 5   | 5.24E-04 |
| 118           | 2.29E-03 | 5   | 4.59E-04 |
| 119           | 1.95E-03 | 5   | 3.89E-04 |
| 120           | 6.35E-03 | 5   | 1.27E-03 |
| 121           | 5.92E-03 | 5   | 1.18E-03 |
| 122           | 6.75E-03 | 5   | 1.35E-03 |
| 123           | 7.99E-03 | 5   | 1.60E-03 |
| 124           | 9.47E-03 | 5   | 1.89E-03 |
| 125           | 1.08E-02 | 5   | 2.16E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 126           | 1.35E-02 | 5   | 2.69E-03 |
| 127           | 1.61E-02 | 5   | 3.22E-03 |
| 128           | 4.49E-03 | 5   | 8.97E-04 |
| 129           | 3.77E-03 | 5   | 7.54E-04 |
| 130           | 3.19E-03 | 5   | 6.37E-04 |
| 131           | 2.60E-03 | 5   | 5.20E-04 |
| 132           | 1.79E-03 | 5   | 3.57E-04 |
| 133           | 5.82E-03 | 5   | 1.16E-03 |
| 134           | 7.36E-03 | 5   | 1.47E-03 |
| 135           | 9.26E-03 | 5   | 1.85E-03 |
| 136           | 1.08E-02 | 5   | 2.15E-03 |
| 137           | 1.32E-02 | 5   | 2.64E-03 |
| 138           | 1.85E-02 | 5   | 3.71E-03 |
| 139           | 3.91E-02 | 5   | 7.81E-03 |
| 140           | 4.58E-03 | 5   | 9.16E-04 |
| 141           | 3.62E-03 | 5   | 7.23E-04 |
| 142           | 2.99E-03 | 5   | 5.97E-04 |
| 143           | 2.00E-03 | 5   | 4.00E-04 |
| 144           | 8.58E-03 | 5   | 1.72E-03 |
| 145           | 1.13E-02 | 5   | 2.26E-03 |
| 146           | 1.36E-02 | 5   | 2.71E-03 |
| 147           | 1.81E-02 | 5   | 3.62E-03 |
| 148           | 2.66E-02 | 5   | 5.32E-03 |
| 149           | 2.40E-02 | 5   | 4.80E-03 |
| 150           | 1.39E-02 | 5   | 2.78E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 1.03E-02 | 5   | 2.06E-03 |
| 152           | 8.36E-03 | 5   | 1.67E-03 |
| 153           | 4.85E-03 | 5   | 9.71E-04 |
| 154           | 3.97E-03 | 5   | 7.94E-04 |
| 155           | 3.23E-03 | 5   | 6.46E-04 |
| 156           | 2.76E-03 | 5   | 5.52E-04 |
| 157           | 2.28E-02 | 5   | 4.57E-03 |
| 158           | 2.57E-02 | 5   | 5.14E-03 |
| 159           | 3.10E-02 | 5   | 6.21E-03 |
| 160           | 1.73E-02 | 5   | 3.46E-03 |
| 161           | 1.13E-02 | 5   | 2.26E-03 |
| 162           | 8.31E-03 | 5   | 1.66E-03 |
| 163           | 4.00E-03 | 5   | 8.00E-04 |
| 164           | 3.50E-03 | 5   | 7.00E-04 |
| 165           | 2.94E-03 | 5   | 5.88E-04 |
| 166           | 3.66E-02 | 5   | 7.31E-03 |
| 167           | 2.01E-02 | 5   | 4.02E-03 |
| 168           | 1.38E-02 | 5   | 2.76E-03 |
| 169           | 9.74E-03 | 5   | 1.95E-03 |
| 170           | 7.41E-03 | 5   | 1.48E-03 |
| 171           | 4.66E-03 | 5   | 9.32E-04 |
| 172           | 3.53E-03 | 5   | 7.05E-04 |
| 173           | 2.92E-03 | 5   | 5.85E-04 |
| 174           | 5.85E-02 | 5   | 1.17E-02 |
| 175           | 3.69E-02 | 5   | 7.38E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 176      | 2.28E-02 | 5   | 4.56E-03 |
| 177      | 1.55E-02 | 5   | 3.09E-03 |
| 178      | 1.09E-02 | 5   | 2.18E-03 |
| 179      | 7.91E-03 | 5   | 1.58E-03 |
| 180      | 6.11E-03 | 5   | 1.22E-03 |
| 181      | 4.24E-03 | 5   | 8.49E-04 |
| 182      | 3.46E-03 | 5   | 6.92E-04 |
| 183      | 4.89E-02 | 5   | 9.78E-03 |
| 184      | 3.46E-02 | 5   | 6.92E-03 |
| 185      | 2.41E-02 | 5   | 4.82E-03 |
| 186      | 1.65E-02 | 5   | 3.30E-03 |
| 187      | 1.21E-02 | 5   | 2.41E-03 |
| 188      | 8.95E-03 | 5   | 1.79E-03 |
| 189      | 6.91E-03 | 5   | 1.38E-03 |
| 190      | 5.50E-03 | 5   | 1.10E-03 |
| 191      | 5.69E-02 | 5   | 1.14E-02 |
| 192      | 4.12E-02 | 5   | 8.24E-03 |
| 193      | 3.05E-02 | 5   | 6.10E-03 |
| 194      | 2.28E-02 | 5   | 4.56E-03 |
| 195      | 1.68E-02 | 5   | 3.37E-03 |
| 196      | 1.26E-02 | 5   | 2.52E-03 |
| 197      | 9.71E-03 | 5   | 1.94E-03 |
| 198      | 7.43E-03 | 5   | 1.49E-03 |
| 199      | 5.99E-03 | 5   | 1.20E-03 |
| 200      | 4.94E-03 | 5   | 9.87E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 201      | 2.22E-02 | 5   | 4.44E-03 |
| 202      | 3.38E-02 | 5   | 6.77E-03 |
| 203      | 4.01E-02 | 5   | 8.02E-03 |
| 204      | 4.36E-02 | 5   | 8.72E-03 |
| 205      | 4.03E-02 | 5   | 8.06E-03 |
| 206      | 3.34E-02 | 5   | 6.68E-03 |
| 207      | 2.69E-02 | 5   | 5.37E-03 |
| 208      | 2.12E-02 | 5   | 4.23E-03 |
| 209      | 1.63E-02 | 5   | 3.27E-03 |
| 210      | 1.28E-02 | 5   | 2.55E-03 |
| 211      | 1.00E-02 | 5   | 2.01E-03 |
| 212      | 7.84E-03 | 5   | 1.57E-03 |
| 213      | 6.42E-03 | 5   | 1.28E-03 |
| 214      | 5.12E-03 | 5   | 1.02E-03 |
| 215      | 4.29E-03 | 5   | 8.59E-04 |
| 216      | 1.03E-02 | 5   | 2.07E-03 |
| 217      | 1.20E-02 | 5   | 2.39E-03 |
| 218      | 1.65E-02 | 5   | 3.29E-03 |
| 219      | 2.11E-02 | 5   | 4.23E-03 |
| 220      | 2.49E-02 | 5   | 4.99E-03 |
| 221      | 2.65E-02 | 5   | 5.30E-03 |
| 222      | 2.55E-02 | 5   | 5.09E-03 |
| 223      | 2.23E-02 | 5   | 4.46E-03 |
| 224      | 1.86E-02 | 5   | 3.72E-03 |
| 225      | 1.51E-02 | 5   | 3.02E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 226      | 1.21E-02 | 5   | 2.42E-03 |
| 227      | 9.86E-03 | 5   | 1.97E-03 |
| 228      | 7.96E-03 | 5   | 1.59E-03 |
| 229      | 6.45E-03 | 5   | 1.29E-03 |
| 230      | 5.32E-03 | 5   | 1.06E-03 |
| 231      | 4.25E-03 | 5   | 8.50E-04 |
| 232      | 7.24E-03 | 5   | 1.45E-03 |
| 233      | 7.63E-03 | 5   | 1.53E-03 |
| 234      | 1.01E-02 | 5   | 2.02E-03 |
| 235      | 1.30E-02 | 5   | 2.59E-03 |
| 236      | 1.59E-02 | 5   | 3.17E-03 |
| 237      | 1.85E-02 | 5   | 3.71E-03 |
| 238      | 1.89E-02 | 5   | 3.78E-03 |
| 239      | 1.76E-02 | 5   | 3.51E-03 |
| 240      | 1.56E-02 | 5   | 3.12E-03 |
| 241      | 1.32E-02 | 5   | 2.65E-03 |
| 242      | 1.11E-02 | 5   | 2.23E-03 |
| 243      | 9.27E-03 | 5   | 1.85E-03 |
| 244      | 7.76E-03 | 5   | 1.55E-03 |
| 245      | 6.28E-03 | 5   | 1.26E-03 |
| 246      | 5.33E-03 | 5   | 1.07E-03 |
| 247      | 4.32E-03 | 5   | 8.64E-04 |
| 248      | 5.92E-03 | 5   | 1.18E-03 |
| 249      | 5.86E-03 | 5   | 1.17E-03 |
| 250      | 6.86E-03 | 5   | 1.37E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 8.81E-03 | 5   | 1.76E-03 |
| 252           | 1.12E-02 | 5   | 2.24E-03 |
| 253           | 1.30E-02 | 5   | 2.60E-03 |
| 254           | 1.39E-02 | 5   | 2.77E-03 |
| 255           | 1.38E-02 | 5   | 2.75E-03 |
| 256           | 1.29E-02 | 5   | 2.57E-03 |
| 257           | 1.15E-02 | 5   | 2.30E-03 |
| 258           | 9.99E-03 | 5   | 2.00E-03 |
| 259           | 8.58E-03 | 5   | 1.72E-03 |
| 260           | 7.35E-03 | 5   | 1.47E-03 |
| 261           | 6.11E-03 | 5   | 1.22E-03 |
| 262           | 5.22E-03 | 5   | 1.04E-03 |
| 263           | 4.32E-03 | 5   | 8.64E-04 |
| 264           | 3.97E-03 | 5   | 7.93E-04 |
| 265           | 3.83E-03 | 5   | 7.67E-04 |
| 266           | 3.96E-03 | 5   | 7.92E-04 |
| 267           | 4.55E-03 | 5   | 9.09E-04 |
| 268           | 4.52E-03 | 5   | 9.03E-04 |
| 269           | 5.09E-03 | 5   | 1.02E-03 |
| 270           | 6.29E-03 | 5   | 1.26E-03 |
| 271           | 7.99E-03 | 5   | 1.60E-03 |
| 272           | 9.47E-03 | 5   | 1.89E-03 |
| 273           | 1.05E-02 | 5   | 2.09E-03 |
| 274           | 1.08E-02 | 5   | 2.16E-03 |
| 275           | 1.05E-02 | 5   | 2.10E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 276      | 9.78E-03 | 5   | 1.96E-03 |
| 277      | 8.81E-03 | 5   | 1.76E-03 |
| 278      | 7.80E-03 | 5   | 1.56E-03 |
| 279      | 6.84E-03 | 5   | 1.37E-03 |
| 280      | 5.84E-03 | 5   | 1.17E-03 |
| 281      | 4.93E-03 | 5   | 9.87E-04 |
| 282      | 4.16E-03 | 5   | 8.32E-04 |
| 283      | 3.15E-03 | 5   | 6.30E-04 |
| 284      | 3.02E-03 | 5   | 6.04E-04 |
| 285      | 2.96E-03 | 5   | 5.92E-04 |
| 286      | 3.13E-03 | 5   | 6.27E-04 |
| 287      | 3.58E-03 | 5   | 7.15E-04 |
| 288      | 3.90E-03 | 5   | 7.79E-04 |
| 289      | 4.06E-03 | 5   | 8.11E-04 |
| 290      | 4.90E-03 | 5   | 9.81E-04 |
| 291      | 5.98E-03 | 5   | 1.20E-03 |
| 292      | 7.12E-03 | 5   | 1.42E-03 |
| 293      | 8.04E-03 | 5   | 1.61E-03 |
| 294      | 8.57E-03 | 5   | 1.71E-03 |
| 295      | 8.60E-03 | 5   | 1.72E-03 |
| 296      | 8.30E-03 | 5   | 1.66E-03 |
| 297      | 7.75E-03 | 5   | 1.55E-03 |
| 298      | 7.02E-03 | 5   | 1.40E-03 |
| 299      | 6.27E-03 | 5   | 1.25E-03 |
| 300      | 5.48E-03 | 5   | 1.10E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 4.52E-03 | 5   | 9.04E-04 |
| 302           | 3.98E-03 | 5   | 7.96E-04 |
| 303           | 2.68E-03 | 5   | 5.35E-04 |
| 304           | 2.46E-03 | 5   | 4.91E-04 |
| 305           | 2.43E-03 | 5   | 4.86E-04 |
| 306           | 2.35E-03 | 5   | 4.70E-04 |
| 307           | 2.42E-03 | 5   | 4.83E-04 |
| 308           | 2.67E-03 | 5   | 5.34E-04 |
| 309           | 3.02E-03 | 5   | 6.04E-04 |
| 310           | 3.27E-03 | 5   | 6.54E-04 |
| 311           | 3.86E-03 | 5   | 7.71E-04 |
| 312           | 4.63E-03 | 5   | 9.26E-04 |
| 313           | 5.50E-03 | 5   | 1.10E-03 |
| 314           | 6.29E-03 | 5   | 1.26E-03 |
| 315           | 6.85E-03 | 5   | 1.37E-03 |
| 316           | 7.10E-03 | 5   | 1.42E-03 |
| 317           | 7.03E-03 | 5   | 1.41E-03 |
| 318           | 6.72E-03 | 5   | 1.34E-03 |
| 319           | 6.25E-03 | 5   | 1.25E-03 |
| 320           | 5.65E-03 | 5   | 1.13E-03 |
| 321           | 5.07E-03 | 5   | 1.01E-03 |
| 322           | 4.21E-03 | 5   | 8.41E-04 |
| 323           | 3.77E-03 | 5   | 7.54E-04 |
| 324           | 2.60E-03 | 5   | 5.21E-04 |
| 325           | 2.26E-03 | 5   | 4.53E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 326      | 2.21E-03 | 5   | 4.42E-04 |
| 327      | 2.00E-03 | 5   | 4.00E-04 |
| 328      | 2.00E-03 | 5   | 4.00E-04 |
| 329      | 2.17E-03 | 5   | 4.33E-04 |
| 330      | 2.26E-03 | 5   | 4.52E-04 |
| 331      | 2.45E-03 | 5   | 4.90E-04 |
| 332      | 2.75E-03 | 5   | 5.51E-04 |
| 333      | 3.13E-03 | 5   | 6.25E-04 |
| 334      | 3.68E-03 | 5   | 7.37E-04 |
| 335      | 4.34E-03 | 5   | 8.68E-04 |
| 336      | 5.00E-03 | 5   | 1.00E-03 |
| 337      | 5.52E-03 | 5   | 1.10E-03 |
| 338      | 5.87E-03 | 5   | 1.17E-03 |
| 339      | 5.97E-03 | 5   | 1.19E-03 |
| 340      | 5.84E-03 | 5   | 1.17E-03 |
| 341      | 5.56E-03 | 5   | 1.11E-03 |
| 342      | 4.99E-03 | 5   | 9.98E-04 |
| 343      | 4.59E-03 | 5   | 9.18E-04 |
| 344      | 3.92E-03 | 5   | 7.83E-04 |
| 345      | 3.55E-03 | 5   | 7.09E-04 |
| 346      | 1.98E-03 | 5   | 3.97E-04 |
| 347      | 1.90E-03 | 5   | 3.81E-04 |
| 348      | 1.83E-03 | 5   | 3.65E-04 |
| 349      | 1.73E-03 | 5   | 3.46E-04 |
| 350      | 1.75E-03 | 5   | 3.49E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 1.86E-03 | 5   | 3.72E-04 |
| 352           | 1.98E-03 | 5   | 3.96E-04 |
| 353           | 2.10E-03 | 5   | 4.19E-04 |
| 354           | 2.30E-03 | 5   | 4.60E-04 |
| 355           | 2.52E-03 | 5   | 5.04E-04 |
| 356           | 3.01E-03 | 5   | 6.02E-04 |
| 357           | 3.51E-03 | 5   | 7.01E-04 |
| 358           | 4.05E-03 | 5   | 8.09E-04 |
| 359           | 4.52E-03 | 5   | 9.04E-04 |
| 360           | 4.88E-03 | 5   | 9.76E-04 |
| 361           | 5.06E-03 | 5   | 1.01E-03 |
| 362           | 5.08E-03 | 5   | 1.02E-03 |
| 363           | 4.92E-03 | 5   | 9.84E-04 |
| 364           | 4.45E-03 | 5   | 8.90E-04 |
| 365           | 4.17E-03 | 5   | 8.34E-04 |
| 366           | 3.63E-03 | 5   | 7.25E-04 |
| 367           | 3.32E-03 | 5   | 6.64E-04 |
| 368           | 1.72E-03 | 5   | 3.44E-04 |
| 369           | 1.69E-03 | 5   | 3.37E-04 |
| 370           | 1.60E-03 | 5   | 3.19E-04 |
| 371           | 1.49E-03 | 5   | 2.98E-04 |
| 372           | 1.55E-03 | 5   | 3.10E-04 |
| 373           | 1.51E-03 | 5   | 3.02E-04 |
| 374           | 1.65E-03 | 5   | 3.30E-04 |
| 375           | 1.71E-03 | 5   | 3.43E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 1.87E-03    | 5          | 3.75E-04  |
| 377      | 2.03E-03    | 5          | 4.06E-04  |
| 378      | 2.16E-03    | 5          | 4.32E-04  |
| 379      | 2.49E-03    | 5          | 4.99E-04  |
| 380      | 2.76E-03    | 5          | 5.52E-04  |
| 381      | 3.32E-03    | 5          | 6.64E-04  |
| 382      | 3.74E-03    | 5          | 7.49E-04  |
| 383      | 4.08E-03    | 5          | 8.17E-04  |
| 384      | 4.30E-03    | 5          | 8.61E-04  |
| 385      | 4.38E-03    | 5          | 8.75E-04  |
| 386      | 4.30E-03    | 5          | 8.60E-04  |
| 387      | 3.97E-03    | 5          | 7.94E-04  |
| 388      | 3.76E-03    | 5          | 7.53E-04  |
| 389      | 3.35E-03    | 5          | 6.71E-04  |
| 390      | 3.10E-03    | 5          | 6.19E-04  |

**Risk Calculations - 3rd Trimester Start  
Construction Phase 4**

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |          |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   | Max      |
| 1        | 0.14257 | 0.0136 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-08  | 1.6E-02 | 9.86E-01 |
| 2        | 0.13369 | 0.0136 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-08  | 1.5E-02 |          |
| 3        | 0.12214 | 0.0136 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-08  | 1.4E-02 |          |
| 4        | 0.11318 | 0.0136 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-08  | 1.3E-02 |          |
| 5        | 0.10329 | 0.0136 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-08  | 1.2E-02 |          |
| 6        | 0.0959  | 0.0136 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-08  | 1.1E-02 |          |
| 7        | 0.18122 | 0.0136 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.58E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.1E-08  | 2.1E-02 |          |
| 8        | 0.16599 | 0.0136 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-08  | 1.9E-02 |          |
| 9        | 0.14564 | 0.0136 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-08  | 1.7E-02 |          |
| 10       | 0.13566 | 0.0136 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-08  | 1.6E-02 |          |
| 11       | 0.11905 | 0.0136 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-08  | 1.4E-02 |          |
| 12       | 0.11174 | 0.0136 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-08  | 1.3E-02 |          |
| 13       | 0.10516 | 0.0136 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-08  | 1.2E-02 |          |
| 14       | 0.19891 | 0.0136 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.84E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-08  | 2.3E-02 |          |
| 15       | 0.18538 | 0.0136 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.64E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.1E-08  | 2.1E-02 |          |
| 16       | 0.16647 | 0.0136 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-08  | 1.9E-02 |          |
| 17       | 0.14661 | 0.0136 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-08  | 1.7E-02 |          |
| 18       | 0.13322 | 0.0136 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-08  | 1.5E-02 |          |
| 19       | 0.12149 | 0.0136 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-08  | 1.4E-02 |          |
| 20       | 0.11331 | 0.0136 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-08  | 1.3E-02 |          |
| 21       | 0.43801 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.25E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.0E-08  | 5.0E-02 |          |
| 22       | 0.5016  | 0.0136 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.8E-08  | 5.8E-02 |          |
| 23       | 0.53845 | 0.0136 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-08  | 6.2E-02 |          |
| 24       | 0.55059 | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.3E-08  | 6.3E-02 |          |
| 25       | 0.61064 | 0.0136 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.0E-08  | 7.0E-02 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 26       | 0.59517 | 0.0136 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.49E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.9E-08  | 6.9E-02 |
| 27       | 0.54814 | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.3E-08  | 6.3E-02 |
| 28       | 0.48705 | 0.0136 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.95E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.6E-08  | 5.6E-02 |
| 29       | 0.41251 | 0.0136 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.88E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.8E-08  | 4.8E-02 |
| 30       | 0.27062 | 0.0136 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-08  | 3.1E-02 |
| 31       | 0.24985 | 0.0136 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-08  | 2.9E-02 |
| 32       | 0.20383 | 0.0136 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-08  | 2.3E-02 |
| 33       | 0.19347 | 0.0136 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-08  | 2.2E-02 |
| 34       | 0.16069 | 0.0136 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-08  | 1.9E-02 |
| 35       | 0.14853 | 0.0136 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-08  | 1.7E-02 |
| 36       | 0.1328  | 0.0136 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 37       | 0.12553 | 0.0136 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-08  | 1.4E-02 |
| 38       | 0.59038 | 0.0136 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-08  | 6.8E-02 |
| 39       | 0.53496 | 0.0136 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-08  | 6.2E-02 |
| 40       | 0.57248 | 0.0136 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.6E-08  | 6.6E-02 |
| 41       | 0.58509 | 0.0136 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 42       | 0.61645 | 0.0136 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.79E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.1E-08  | 7.1E-02 |
| 43       | 0.63781 | 0.0136 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.10E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.4E-08  | 7.4E-02 |
| 44       | 0.60659 | 0.0136 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.0E-08  | 7.0E-02 |
| 45       | 0.53649 | 0.0136 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-08  | 6.2E-02 |
| 46       | 0.4596  | 0.0136 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.3E-08  | 5.3E-02 |
| 47       | 0.41777 | 0.0136 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.8E-08  | 4.8E-02 |
| 48       | 0.3294  | 0.0136 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-08  | 3.8E-02 |
| 49       | 0.28523 | 0.0136 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.3E-08  | 3.3E-02 |
| 50       | 0.25804 | 0.0136 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.0E-08  | 3.0E-02 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 51       | 0.23121 | 0.0136 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.7E-08  | 2.7E-02 |
| 52       | 0.18436 | 0.0136 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.1E-08  | 2.1E-02 |
| 53       | 0.16289 | 0.0136 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-08  | 1.9E-02 |
| 54       | 0.14939 | 0.0136 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-08  | 1.7E-02 |
| 55       | 0.15235 | 0.0136 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-08  | 1.8E-02 |
| 56       | 0.55797 | 0.0136 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.4E-08  | 6.4E-02 |
| 57       | 0.56885 | 0.0136 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.6E-08  | 6.6E-02 |
| 58       | 0.58821 | 0.0136 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.39E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-08  | 6.8E-02 |
| 59       | 0.68345 | 0.0136 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.75E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.9E-08  | 7.9E-02 |
| 60       | 0.69254 | 0.0136 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.88E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 8.0E-08  | 8.0E-02 |
| 61       | 0.73699 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.5E-08  | 8.5E-02 |
| 62       | 0.72167 | 0.0136 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.3E-08  | 8.3E-02 |
| 63       | 0.62652 | 0.0136 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.94E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.2E-08  | 7.2E-02 |
| 64       | 0.56525 | 0.0136 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.5E-08  | 6.5E-02 |
| 65       | 0.46307 | 0.0136 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.60E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.3E-08  | 5.3E-02 |
| 66       | 0.46763 | 0.0136 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.4E-08  | 5.4E-02 |
| 67       | 0.32884 | 0.0136 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-08  | 3.8E-02 |
| 68       | 0.29277 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.18E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 69       | 0.27065 | 0.0136 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-08  | 3.1E-02 |
| 70       | 0.26125 | 0.0136 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.73E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.0E-08  | 3.0E-02 |
| 71       | 0.20425 | 0.0136 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.4E-08  | 2.4E-02 |
| 72       | 0.1906  | 0.0136 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-08  | 2.2E-02 |
| 73       | 0.22012 | 0.0136 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.14E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 74       | 0.62675 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.94E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.2E-08  | 7.2E-02 |
| 75       | 0.65056 | 0.0136 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.5E-08  | 7.5E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 76       | 0.65456 | 0.0136 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.5E-08  | 7.5E-02 |
| 77       | 0.73638 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.5E-08  | 8.5E-02 |
| 78       | 0.8471  | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.8E-08  | 9.8E-02 |
| 79       | 0.88849 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 80       | 0.90496 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 81       | 0.82607 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.5E-08  | 9.5E-02 |
| 82       | 0.70876 | 0.0136 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.2E-08  | 8.2E-02 |
| 83       | 0.59652 | 0.0136 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.9E-08  | 6.9E-02 |
| 84       | 0.67997 | 0.0136 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.8E-08  | 7.8E-02 |
| 85       | 0.34615 | 0.0136 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.94E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.0E-08  | 4.0E-02 |
| 86       | 0.31525 | 0.0136 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.6E-08  | 3.6E-02 |
| 87       | 0.30195 | 0.0136 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.5E-08  | 3.5E-02 |
| 88       | 0.28593 | 0.0136 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.3E-08  | 3.3E-02 |
| 89       | 0.2696  | 0.0136 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-08  | 3.1E-02 |
| 90       | 0.25777 | 0.0136 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.0E-08  | 3.0E-02 |
| 91       | 0.7657  | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.8E-08  | 8.8E-02 |
| 92       | 0.78216 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.0E-08  | 9.0E-02 |
| 93       | 0.89506 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 94       | 0.94714 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 95       | 1.04003 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.48E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 96       | 1.12421 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.60E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 97       | 1.04229 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.49E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 98       | 0.90305 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 99       | 0.88258 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 100      | 0.44117 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.1E-08  | 5.1E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 101      | 0.36795 | 0.0136 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.25E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.2E-08  | 4.2E-02 |
| 102      | 0.34454 | 0.0136 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.0E-08  | 4.0E-02 |
| 103      | 0.32801 | 0.0136 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-08  | 3.8E-02 |
| 104      | 0.30575 | 0.0136 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.36E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.5E-08  | 3.5E-02 |
| 105      | 0.27575 | 0.0136 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.2E-08  | 3.2E-02 |
| 106      | 0.80913 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.3E-08  | 9.3E-02 |
| 107      | 0.83667 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.6E-08  | 9.6E-02 |
| 108      | 0.94434 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 109      | 0.98691 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 110      | 1.13153 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 111      | 1.3058  | 0.0136 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.86E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-07  | 1.5E-01 |
| 112      | 1.41351 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.02E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 113      | 1.42196 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 114      | 1.36036 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.94E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 115      | 0.40925 | 0.0136 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.84E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.7E-08  | 4.7E-02 |
| 116      | 0.39445 | 0.0136 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-08  | 4.5E-02 |
| 117      | 0.38313 | 0.0136 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.4E-08  | 4.4E-02 |
| 118      | 0.33537 | 0.0136 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.9E-08  | 3.9E-02 |
| 119      | 0.28473 | 0.0136 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.3E-08  | 3.3E-02 |
| 120      | 0.92954 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 121      | 0.86551 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 122      | 0.98739 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 123      | 1.16933 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 124      | 1.386   | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 125      | 1.58316 | 0.0136 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.26E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 126      | 1.96907 | 0.0136 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.81E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |
| 127      | 2.35262 | 0.0136 | 3.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.36E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.7E-07  | 2.7E-01 |
| 128      | 0.65638 | 0.0136 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.36E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.6E-08  | 7.6E-02 |
| 129      | 0.55176 | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.4E-08  | 6.4E-02 |
| 130      | 0.46604 | 0.0136 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.4E-08  | 5.4E-02 |
| 131      | 0.38018 | 0.0136 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.4E-08  | 4.4E-02 |
| 132      | 0.26126 | 0.0136 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.73E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.0E-08  | 3.0E-02 |
| 133      | 0.85154 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.8E-08  | 9.8E-02 |
| 134      | 1.07595 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 135      | 1.3543  | 0.0136 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 136      | 1.57548 | 0.0136 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |
| 137      | 1.93144 | 0.0136 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.75E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 138      | 2.71283 | 0.0136 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.87E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-07  | 3.1E-01 |
| 139      | 5.71455 | 0.0136 | 7.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.6E-07  | 6.6E-01 |
| 140      | 0.67028 | 0.0136 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.7E-08  | 7.7E-02 |
| 141      | 0.52905 | 0.0136 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.55E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.1E-08  | 6.1E-02 |
| 142      | 0.43694 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.23E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.0E-08  | 5.0E-02 |
| 143      | 0.29239 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 144      | 1.25505 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 145      | 1.65273 | 0.0136 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-07  | 1.9E-01 |
| 146      | 1.98418 | 0.0136 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.83E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |
| 147      | 2.64664 | 0.0136 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.77E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-07  | 3.1E-01 |
| 148      | 3.89148 | 0.0136 | 5.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.55E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-07  | 4.5E-01 |
| 149      | 3.51153 | 0.0136 | 4.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.01E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.0E-07  | 4.0E-01 |
| 150      | 2.03503 | 0.0136 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.90E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 151      | 1.50481 | 0.0136 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 152      | 1.22329 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 153      | 0.70991 | 0.0136 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.2E-08  | 8.2E-02 |
| 154      | 0.58106 | 0.0136 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 155      | 0.47279 | 0.0136 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.4E-08  | 5.4E-02 |
| 156      | 0.40353 | 0.0136 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.7E-08  | 4.7E-02 |
| 157      | 3.34251 | 0.0136 | 4.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.77E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.9E-07  | 3.9E-01 |
| 158      | 3.76257 | 0.0136 | 5.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.37E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.3E-07  | 4.3E-01 |
| 159      | 4.54045 | 0.0136 | 6.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.48E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 5.2E-07  | 5.2E-01 |
| 160      | 2.52972 | 0.0136 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.61E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-07  | 2.9E-01 |
| 161      | 1.65138 | 0.0136 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-07  | 1.9E-01 |
| 162      | 1.21511 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 163      | 0.58478 | 0.0136 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 164      | 0.51231 | 0.0136 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.9E-08  | 5.9E-02 |
| 165      | 0.43002 | 0.0136 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.0E-08  | 5.0E-02 |
| 166      | 5.34751 | 0.0136 | 7.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-07  | 6.2E-01 |
| 167      | 2.93781 | 0.0136 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-07  | 3.4E-01 |
| 168      | 2.01593 | 0.0136 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |
| 169      | 1.42521 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 170      | 1.08462 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 171      | 0.68161 | 0.0136 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.9E-08  | 7.9E-02 |
| 172      | 0.51579 | 0.0136 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.36E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.9E-08  | 5.9E-02 |
| 173      | 0.42776 | 0.0136 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.10E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.9E-08  | 4.9E-02 |
| 174      | 8.55485 | 0.0136 | 1.2E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-04 | 1.1 | 10  | 0.05 | 70 | 1   | 9.9E-07  | 9.9E-01 |
| 175      | 5.40053 | 0.0136 | 7.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.70E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-07  | 6.2E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 176      | 3.33391 | 0.0136 | 4.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.75E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-07  | 3.8E-01 |
| 177      | 2.2635  | 0.0136 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.6E-07  | 2.6E-01 |
| 178      | 1.59628 | 0.0136 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.28E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |
| 179      | 1.15673 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 180      | 0.89425 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 181      | 0.62061 | 0.0136 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.2E-08  | 7.2E-02 |
| 182      | 0.50601 | 0.0136 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.22E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.8E-08  | 5.8E-02 |
| 183      | 7.15077 | 0.0136 | 9.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-04 | 1.1 | 10  | 0.05 | 70 | 1   | 8.2E-07  | 8.2E-01 |
| 184      | 5.06388 | 0.0136 | 6.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.22E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 5.8E-07  | 5.8E-01 |
| 185      | 3.52857 | 0.0136 | 4.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.1E-07  | 4.1E-01 |
| 186      | 2.41297 | 0.0136 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-07  | 2.8E-01 |
| 187      | 1.76478 | 0.0136 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.52E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.0E-07  | 2.0E-01 |
| 188      | 1.30975 | 0.0136 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-07  | 1.5E-01 |
| 189      | 1.01047 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 190      | 0.80384 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.3E-08  | 9.3E-02 |
| 191      | 8.32687 | 0.0136 | 1.1E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-04 | 1.1 | 10  | 0.05 | 70 | 1   | 9.6E-07  | 9.6E-01 |
| 192      | 6.02533 | 0.0136 | 8.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.59E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.9E-07  | 6.9E-01 |
| 193      | 4.45973 | 0.0136 | 6.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.36E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 5.1E-07  | 5.1E-01 |
| 194      | 3.33262 | 0.0136 | 4.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.75E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-07  | 3.8E-01 |
| 195      | 2.46305 | 0.0136 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.51E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-07  | 2.8E-01 |
| 196      | 1.84191 | 0.0136 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.1E-07  | 2.1E-01 |
| 197      | 1.42077 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 198      | 1.08702 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 199      | 0.87584 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 200      | 0.72192 | 0.0136 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.3E-08  | 8.3E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 201      | 3.24959 | 0.0136 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.7E-07  | 3.7E-01 |
| 202      | 4.95098 | 0.0136 | 6.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 5.7E-07  | 5.7E-01 |
| 203      | 5.8668  | 0.0136 | 8.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.37E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-07  | 6.8E-01 |
| 204      | 6.38123 | 0.0136 | 8.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.10E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 7.4E-07  | 7.4E-01 |
| 205      | 5.89622 | 0.0136 | 8.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-07  | 6.8E-01 |
| 206      | 4.88452 | 0.0136 | 6.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.97E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 5.6E-07  | 5.6E-01 |
| 207      | 3.92915 | 0.0136 | 5.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.60E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-07  | 4.5E-01 |
| 208      | 3.09747 | 0.0136 | 4.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.42E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.6E-07  | 3.6E-01 |
| 209      | 2.38952 | 0.0136 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-07  | 2.8E-01 |
| 210      | 1.86639 | 0.0136 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.66E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 211      | 1.46676 | 0.0136 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 212      | 1.14687 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 213      | 0.93847 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.34E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 214      | 0.74904 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.6E-08  | 8.6E-02 |
| 215      | 0.62804 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.2E-08  | 7.2E-02 |
| 216      | 1.51358 | 0.0136 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.16E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 217      | 1.75108 | 0.0136 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.50E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.0E-07  | 2.0E-01 |
| 218      | 2.40965 | 0.0136 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-07  | 2.8E-01 |
| 219      | 3.09162 | 0.0136 | 4.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.6E-07  | 3.6E-01 |
| 220      | 3.64843 | 0.0136 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.20E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.2E-07  | 4.2E-01 |
| 221      | 3.87704 | 0.0136 | 5.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.53E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-07  | 4.5E-01 |
| 222      | 3.7245  | 0.0136 | 5.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.3E-07  | 4.3E-01 |
| 223      | 3.25928 | 0.0136 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.65E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-07  | 3.8E-01 |
| 224      | 2.72345 | 0.0136 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-07  | 3.1E-01 |
| 225      | 2.20632 | 0.0136 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.5E-07  | 2.5E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 226      | 1.77318 | 0.0136 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.53E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.0E-07  | 2.0E-01 |
| 227      | 1.44239 | 0.0136 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 228      | 1.16513 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 229      | 0.94394 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 230      | 0.77791 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.0E-08  | 9.0E-02 |
| 231      | 0.62195 | 0.0136 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.2E-08  | 7.2E-02 |
| 232      | 1.05953 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.51E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 233      | 1.11661 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.59E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 234      | 1.47792 | 0.0136 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 235      | 1.89467 | 0.0136 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.70E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 236      | 2.31891 | 0.0136 | 3.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.7E-07  | 2.7E-01 |
| 237      | 2.71307 | 0.0136 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.87E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-07  | 3.1E-01 |
| 238      | 2.76677 | 0.0136 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.95E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.2E-07  | 3.2E-01 |
| 239      | 2.56931 | 0.0136 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.0E-07  | 3.0E-01 |
| 240      | 2.2825  | 0.0136 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.26E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.6E-07  | 2.6E-01 |
| 241      | 1.93631 | 0.0136 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.76E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 242      | 1.63045 | 0.0136 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-07  | 1.9E-01 |
| 243      | 1.35634 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 244      | 1.13547 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 245      | 0.91896 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 246      | 0.77965 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.0E-08  | 9.0E-02 |
| 247      | 0.63206 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.01E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.3E-08  | 7.3E-02 |
| 248      | 0.86538 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 249      | 0.85659 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.9E-08  | 9.9E-02 |
| 250      | 1.00342 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.43E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 251      | 1.28849 | 0.0136 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-07  | 1.5E-01 |
| 252      | 1.63636 | 0.0136 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-07  | 1.9E-01 |
| 253      | 1.90198 | 0.0136 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.71E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 254      | 2.02634 | 0.0136 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |
| 255      | 2.01179 | 0.0136 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.87E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |
| 256      | 1.88256 | 0.0136 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.68E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 257      | 1.68205 | 0.0136 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-07  | 1.9E-01 |
| 258      | 1.46116 | 0.0136 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.08E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 259      | 1.25462 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 260      | 1.07567 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 261      | 0.89369 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 262      | 0.7632  | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.8E-08  | 8.8E-02 |
| 263      | 0.63167 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.01E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.3E-08  | 7.3E-02 |
| 264      | 0.58009 | 0.0136 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.27E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 265      | 0.56073 | 0.0136 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.00E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.5E-08  | 6.5E-02 |
| 266      | 0.57902 | 0.0136 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 267      | 0.66488 | 0.0136 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.7E-08  | 7.7E-02 |
| 268      | 0.66061 | 0.0136 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.6E-08  | 7.6E-02 |
| 269      | 0.74394 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.6E-08  | 8.6E-02 |
| 270      | 0.92034 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 271      | 1.1693  | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 272      | 1.38588 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 273      | 1.53028 | 0.0136 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.18E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |
| 274      | 1.58042 | 0.0136 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |
| 275      | 1.5324  | 0.0136 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 276      | 1.43091 | 0.0136 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.04E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 277      | 1.28867 | 0.0136 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-07  | 1.5E-01 |
| 278      | 1.14049 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 279      | 1.0007  | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.43E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 280      | 0.85395 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.8E-08  | 9.8E-02 |
| 281      | 0.7216  | 0.0136 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.3E-08  | 8.3E-02 |
| 282      | 0.60823 | 0.0136 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.0E-08  | 7.0E-02 |
| 283      | 0.46088 | 0.0136 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.3E-08  | 5.3E-02 |
| 284      | 0.44204 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.1E-08  | 5.1E-02 |
| 285      | 0.43325 | 0.0136 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.0E-08  | 5.0E-02 |
| 286      | 0.45841 | 0.0136 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.3E-08  | 5.3E-02 |
| 287      | 0.52307 | 0.0136 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.0E-08  | 6.0E-02 |
| 288      | 0.56987 | 0.0136 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.6E-08  | 6.6E-02 |
| 289      | 0.59322 | 0.0136 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-08  | 6.8E-02 |
| 290      | 0.71744 | 0.0136 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.3E-08  | 8.3E-02 |
| 291      | 0.87548 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 292      | 1.04219 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.49E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 293      | 1.17605 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 294      | 1.25313 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 295      | 1.25792 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 296      | 1.21473 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 297      | 1.13348 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 298      | 1.02677 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 299      | 0.91652 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 300      | 0.80208 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.2E-08  | 9.2E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 301      | 0.6609  | 0.0136 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.6E-08  | 7.6E-02 |
| 302      | 0.58197 | 0.0136 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 303      | 0.39159 | 0.0136 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-08  | 4.5E-02 |
| 304      | 0.35914 | 0.0136 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.1E-08  | 4.1E-02 |
| 305      | 0.35529 | 0.0136 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.1E-08  | 4.1E-02 |
| 306      | 0.34386 | 0.0136 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.0E-08  | 4.0E-02 |
| 307      | 0.35356 | 0.0136 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.04E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.1E-08  | 4.1E-02 |
| 308      | 0.39073 | 0.0136 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-08  | 4.5E-02 |
| 309      | 0.44141 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.1E-08  | 5.1E-02 |
| 310      | 0.47846 | 0.0136 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.5E-08  | 5.5E-02 |
| 311      | 0.56418 | 0.0136 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.05E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.5E-08  | 6.5E-02 |
| 312      | 0.67741 | 0.0136 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.8E-08  | 7.8E-02 |
| 313      | 0.80426 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.3E-08  | 9.3E-02 |
| 314      | 0.92054 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 315      | 1.00261 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.43E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 316      | 1.03928 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.48E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 317      | 1.02828 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 318      | 0.98264 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 319      | 0.91474 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 320      | 0.82666 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.5E-08  | 9.5E-02 |
| 321      | 0.74121 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.5E-08  | 8.5E-02 |
| 322      | 0.6153  | 0.0136 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.1E-08  | 7.1E-02 |
| 323      | 0.55156 | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.4E-08  | 6.4E-02 |
| 324      | 0.38105 | 0.0136 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.4E-08  | 4.4E-02 |
| 325      | 0.33126 | 0.0136 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-08  | 3.8E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 326      | 0.32305 | 0.0136 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.61E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.7E-08  | 3.7E-02 |
| 327      | 0.29252 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 328      | 0.29248 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 329      | 0.317   | 0.0136 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.7E-08  | 3.7E-02 |
| 330      | 0.33066 | 0.0136 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-08  | 3.8E-02 |
| 331      | 0.35869 | 0.0136 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.1E-08  | 4.1E-02 |
| 332      | 0.40288 | 0.0136 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.75E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.6E-08  | 4.6E-02 |
| 333      | 0.4573  | 0.0136 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.3E-08  | 5.3E-02 |
| 334      | 0.53898 | 0.0136 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-08  | 6.2E-02 |
| 335      | 0.63508 | 0.0136 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.3E-08  | 7.3E-02 |
| 336      | 0.73114 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.4E-08  | 8.4E-02 |
| 337      | 0.80795 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.3E-08  | 9.3E-02 |
| 338      | 0.85925 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.9E-08  | 9.9E-02 |
| 339      | 0.87375 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 340      | 0.85425 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.8E-08  | 9.8E-02 |
| 341      | 0.81269 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.4E-08  | 9.4E-02 |
| 342      | 0.72959 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.4E-08  | 8.4E-02 |
| 343      | 0.67174 | 0.0136 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.58E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.7E-08  | 7.7E-02 |
| 344      | 0.57305 | 0.0136 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.6E-08  | 6.6E-02 |
| 345      | 0.51872 | 0.0136 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.40E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.0E-08  | 6.0E-02 |
| 346      | 0.29019 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.14E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.3E-08  | 3.3E-02 |
| 347      | 0.27864 | 0.0136 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.2E-08  | 3.2E-02 |
| 348      | 0.26697 | 0.0136 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-08  | 3.1E-02 |
| 349      | 0.25326 | 0.0136 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.61E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-08  | 2.9E-02 |
| 350      | 0.25562 | 0.0136 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-08  | 2.9E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 351      | 0.2724  | 0.0136 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.89E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-08  | 3.1E-02 |
| 352      | 0.28943 | 0.0136 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.3E-08  | 3.3E-02 |
| 353      | 0.3067  | 0.0136 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.5E-08  | 3.5E-02 |
| 354      | 0.33648 | 0.0136 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.80E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.9E-08  | 3.9E-02 |
| 355      | 0.3689  | 0.0136 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.3E-08  | 4.3E-02 |
| 356      | 0.44002 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.1E-08  | 5.1E-02 |
| 357      | 0.51306 | 0.0136 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.9E-08  | 5.9E-02 |
| 358      | 0.59206 | 0.0136 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-08  | 6.8E-02 |
| 359      | 0.66144 | 0.0136 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.6E-08  | 7.6E-02 |
| 360      | 0.71417 | 0.0136 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.2E-08  | 8.2E-02 |
| 361      | 0.73968 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.5E-08  | 8.5E-02 |
| 362      | 0.74345 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.6E-08  | 8.6E-02 |
| 363      | 0.71982 | 0.0136 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.3E-08  | 8.3E-02 |
| 364      | 0.65107 | 0.0136 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.5E-08  | 7.5E-02 |
| 365      | 0.60983 | 0.0136 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.0E-08  | 7.0E-02 |
| 366      | 0.53056 | 0.0136 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.1E-08  | 6.1E-02 |
| 367      | 0.48574 | 0.0136 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.6E-08  | 5.6E-02 |
| 368      | 0.25159 | 0.0136 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-08  | 2.9E-02 |
| 369      | 0.24678 | 0.0136 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-08  | 2.8E-02 |
| 370      | 0.23335 | 0.0136 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.33E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.7E-08  | 2.7E-02 |
| 371      | 0.21774 | 0.0136 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 372      | 0.22662 | 0.0136 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.23E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.6E-08  | 2.6E-02 |
| 373      | 0.22108 | 0.0136 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 374      | 0.24111 | 0.0136 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-08  | 2.8E-02 |
| 375      | 0.25062 | 0.0136 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-08  | 2.9E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 376      | 0.27425 | 0.0136 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.2E-08  | 3.2E-02 |
| 377      | 0.29662 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 378      | 0.31582 | 0.0136 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.6E-08  | 3.6E-02 |
| 379      | 0.36484 | 0.0136 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.2E-08  | 4.2E-02 |
| 380      | 0.40393 | 0.0136 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.7E-08  | 4.7E-02 |
| 381      | 0.48601 | 0.0136 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.6E-08  | 5.6E-02 |
| 382      | 0.5477  | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.3E-08  | 6.3E-02 |
| 383      | 0.59749 | 0.0136 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.9E-08  | 6.9E-02 |
| 384      | 0.62971 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.98E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.3E-08  | 7.3E-02 |
| 385      | 0.64012 | 0.0136 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.4E-08  | 7.4E-02 |
| 386      | 0.62903 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.3E-08  | 7.3E-02 |
| 387      | 0.5807  | 0.0136 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 388      | 0.55072 | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.3E-08  | 6.3E-02 |
| 389      | 0.49043 | 0.0136 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.99E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.7E-08  | 5.7E-02 |
| 390      | 0.45288 | 0.0136 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.2E-08  | 5.2E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 1.95E-03 | 5   | 3.89E-04 | 2.33E-02 |
| 2  | 1.82E-03 | 5   | 3.65E-04 |          |
| 3  | 1.67E-03 | 5   | 3.33E-04 |          |
| 4  | 1.54E-03 | 5   | 3.09E-04 |          |
| 5  | 1.41E-03 | 5   | 2.82E-04 |          |
| 6  | 1.31E-03 | 5   | 2.62E-04 |          |
| 7  | 2.47E-03 | 5   | 4.95E-04 |          |
| 8  | 2.27E-03 | 5   | 4.53E-04 |          |
| 9  | 1.99E-03 | 5   | 3.97E-04 |          |
| 10 | 1.85E-03 | 5   | 3.70E-04 |          |
| 11 | 1.62E-03 | 5   | 3.25E-04 |          |
| 12 | 1.52E-03 | 5   | 3.05E-04 |          |
| 13 | 1.43E-03 | 5   | 2.87E-04 |          |
| 14 | 2.71E-03 | 5   | 5.43E-04 |          |
| 15 | 2.53E-03 | 5   | 5.06E-04 |          |
| 16 | 2.27E-03 | 5   | 4.54E-04 |          |
| 17 | 2.00E-03 | 5   | 4.00E-04 |          |
| 18 | 1.82E-03 | 5   | 3.64E-04 |          |
| 19 | 1.66E-03 | 5   | 3.32E-04 |          |
| 20 | 1.55E-03 | 5   | 3.09E-04 |          |
| 21 | 5.98E-03 | 5   | 1.20E-03 |          |
| 22 | 6.84E-03 | 5   | 1.37E-03 |          |
| 23 | 7.35E-03 | 5   | 1.47E-03 |          |
| 24 | 7.51E-03 | 5   | 1.50E-03 |          |
| 25 | 8.33E-03 | 5   | 1.67E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 8.12E-03    | 5          | 1.62E-03  |
| 27       | 7.48E-03    | 5          | 1.50E-03  |
| 28       | 6.65E-03    | 5          | 1.33E-03  |
| 29       | 5.63E-03    | 5          | 1.13E-03  |
| 30       | 3.69E-03    | 5          | 7.39E-04  |
| 31       | 3.41E-03    | 5          | 6.82E-04  |
| 32       | 2.78E-03    | 5          | 5.56E-04  |
| 33       | 2.64E-03    | 5          | 5.28E-04  |
| 34       | 2.19E-03    | 5          | 4.39E-04  |
| 35       | 2.03E-03    | 5          | 4.05E-04  |
| 36       | 1.81E-03    | 5          | 3.62E-04  |
| 37       | 1.71E-03    | 5          | 3.43E-04  |
| 38       | 8.06E-03    | 5          | 1.61E-03  |
| 39       | 7.30E-03    | 5          | 1.46E-03  |
| 40       | 7.81E-03    | 5          | 1.56E-03  |
| 41       | 7.98E-03    | 5          | 1.60E-03  |
| 42       | 8.41E-03    | 5          | 1.68E-03  |
| 43       | 8.70E-03    | 5          | 1.74E-03  |
| 44       | 8.28E-03    | 5          | 1.66E-03  |
| 45       | 7.32E-03    | 5          | 1.46E-03  |
| 46       | 6.27E-03    | 5          | 1.25E-03  |
| 47       | 5.70E-03    | 5          | 1.14E-03  |
| 48       | 4.49E-03    | 5          | 8.99E-04  |
| 49       | 3.89E-03    | 5          | 7.78E-04  |
| 50       | 3.52E-03    | 5          | 7.04E-04  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 3.15E-03    | 5          | 6.31E-04  |
| 52       | 2.52E-03    | 5          | 5.03E-04  |
| 53       | 2.22E-03    | 5          | 4.45E-04  |
| 54       | 2.04E-03    | 5          | 4.08E-04  |
| 55       | 2.08E-03    | 5          | 4.16E-04  |
| 56       | 7.61E-03    | 5          | 1.52E-03  |
| 57       | 7.76E-03    | 5          | 1.55E-03  |
| 58       | 8.03E-03    | 5          | 1.61E-03  |
| 59       | 9.33E-03    | 5          | 1.87E-03  |
| 60       | 9.45E-03    | 5          | 1.89E-03  |
| 61       | 1.01E-02    | 5          | 2.01E-03  |
| 62       | 9.85E-03    | 5          | 1.97E-03  |
| 63       | 8.55E-03    | 5          | 1.71E-03  |
| 64       | 7.71E-03    | 5          | 1.54E-03  |
| 65       | 6.32E-03    | 5          | 1.26E-03  |
| 66       | 6.38E-03    | 5          | 1.28E-03  |
| 67       | 4.49E-03    | 5          | 8.97E-04  |
| 68       | 4.00E-03    | 5          | 7.99E-04  |
| 69       | 3.69E-03    | 5          | 7.39E-04  |
| 70       | 3.56E-03    | 5          | 7.13E-04  |
| 71       | 2.79E-03    | 5          | 5.57E-04  |
| 72       | 2.60E-03    | 5          | 5.20E-04  |
| 73       | 3.00E-03    | 5          | 6.01E-04  |
| 74       | 8.55E-03    | 5          | 1.71E-03  |
| 75       | 8.88E-03    | 5          | 1.78E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 8.93E-03    | 5          | 1.79E-03  |
| 77       | 1.00E-02    | 5          | 2.01E-03  |
| 78       | 1.16E-02    | 5          | 2.31E-03  |
| 79       | 1.21E-02    | 5          | 2.42E-03  |
| 80       | 1.23E-02    | 5          | 2.47E-03  |
| 81       | 1.13E-02    | 5          | 2.25E-03  |
| 82       | 9.67E-03    | 5          | 1.93E-03  |
| 83       | 8.14E-03    | 5          | 1.63E-03  |
| 84       | 9.28E-03    | 5          | 1.86E-03  |
| 85       | 4.72E-03    | 5          | 9.45E-04  |
| 86       | 4.30E-03    | 5          | 8.60E-04  |
| 87       | 4.12E-03    | 5          | 8.24E-04  |
| 88       | 3.90E-03    | 5          | 7.80E-04  |
| 89       | 3.68E-03    | 5          | 7.36E-04  |
| 90       | 3.52E-03    | 5          | 7.03E-04  |
| 91       | 1.04E-02    | 5          | 2.09E-03  |
| 92       | 1.07E-02    | 5          | 2.13E-03  |
| 93       | 1.22E-02    | 5          | 2.44E-03  |
| 94       | 1.29E-02    | 5          | 2.58E-03  |
| 95       | 1.42E-02    | 5          | 2.84E-03  |
| 96       | 1.53E-02    | 5          | 3.07E-03  |
| 97       | 1.42E-02    | 5          | 2.84E-03  |
| 98       | 1.23E-02    | 5          | 2.46E-03  |
| 99       | 1.20E-02    | 5          | 2.41E-03  |
| 100      | 6.02E-03    | 5          | 1.20E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 5.02E-03 | 5   | 1.00E-03 |
| 102           | 4.70E-03 | 5   | 9.40E-04 |
| 103           | 4.48E-03 | 5   | 8.95E-04 |
| 104           | 4.17E-03 | 5   | 8.34E-04 |
| 105           | 3.76E-03 | 5   | 7.53E-04 |
| 106           | 1.10E-02 | 5   | 2.21E-03 |
| 107           | 1.14E-02 | 5   | 2.28E-03 |
| 108           | 1.29E-02 | 5   | 2.58E-03 |
| 109           | 1.35E-02 | 5   | 2.69E-03 |
| 110           | 1.54E-02 | 5   | 3.09E-03 |
| 111           | 1.78E-02 | 5   | 3.56E-03 |
| 112           | 1.93E-02 | 5   | 3.86E-03 |
| 113           | 1.94E-02 | 5   | 3.88E-03 |
| 114           | 1.86E-02 | 5   | 3.71E-03 |
| 115           | 5.58E-03 | 5   | 1.12E-03 |
| 116           | 5.38E-03 | 5   | 1.08E-03 |
| 117           | 5.23E-03 | 5   | 1.05E-03 |
| 118           | 4.58E-03 | 5   | 9.15E-04 |
| 119           | 3.89E-03 | 5   | 7.77E-04 |
| 120           | 1.27E-02 | 5   | 2.54E-03 |
| 121           | 1.18E-02 | 5   | 2.36E-03 |
| 122           | 1.35E-02 | 5   | 2.69E-03 |
| 123           | 1.60E-02 | 5   | 3.19E-03 |
| 124           | 1.89E-02 | 5   | 3.78E-03 |
| 125           | 2.16E-02 | 5   | 4.32E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 126           | 2.69E-02 | 5   | 5.37E-03 |
| 127           | 3.21E-02 | 5   | 6.42E-03 |
| 128           | 8.96E-03 | 5   | 1.79E-03 |
| 129           | 7.53E-03 | 5   | 1.51E-03 |
| 130           | 6.36E-03 | 5   | 1.27E-03 |
| 131           | 5.19E-03 | 5   | 1.04E-03 |
| 132           | 3.57E-03 | 5   | 7.13E-04 |
| 133           | 1.16E-02 | 5   | 2.32E-03 |
| 134           | 1.47E-02 | 5   | 2.94E-03 |
| 135           | 1.85E-02 | 5   | 3.70E-03 |
| 136           | 2.15E-02 | 5   | 4.30E-03 |
| 137           | 2.64E-02 | 5   | 5.27E-03 |
| 138           | 3.70E-02 | 5   | 7.40E-03 |
| 139           | 7.80E-02 | 5   | 1.56E-02 |
| 140           | 9.15E-03 | 5   | 1.83E-03 |
| 141           | 7.22E-03 | 5   | 1.44E-03 |
| 142           | 5.96E-03 | 5   | 1.19E-03 |
| 143           | 3.99E-03 | 5   | 7.98E-04 |
| 144           | 1.71E-02 | 5   | 3.43E-03 |
| 145           | 2.26E-02 | 5   | 4.51E-03 |
| 146           | 2.71E-02 | 5   | 5.42E-03 |
| 147           | 3.61E-02 | 5   | 7.22E-03 |
| 148           | 5.31E-02 | 5   | 1.06E-02 |
| 149           | 4.79E-02 | 5   | 9.58E-03 |
| 150           | 2.78E-02 | 5   | 5.55E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 2.05E-02 | 5   | 4.11E-03 |
| 152           | 1.67E-02 | 5   | 3.34E-03 |
| 153           | 9.69E-03 | 5   | 1.94E-03 |
| 154           | 7.93E-03 | 5   | 1.59E-03 |
| 155           | 6.45E-03 | 5   | 1.29E-03 |
| 156           | 5.51E-03 | 5   | 1.10E-03 |
| 157           | 4.56E-02 | 5   | 9.12E-03 |
| 158           | 5.13E-02 | 5   | 1.03E-02 |
| 159           | 6.20E-02 | 5   | 1.24E-02 |
| 160           | 3.45E-02 | 5   | 6.90E-03 |
| 161           | 2.25E-02 | 5   | 4.51E-03 |
| 162           | 1.66E-02 | 5   | 3.32E-03 |
| 163           | 7.98E-03 | 5   | 1.60E-03 |
| 164           | 6.99E-03 | 5   | 1.40E-03 |
| 165           | 5.87E-03 | 5   | 1.17E-03 |
| 166           | 7.30E-02 | 5   | 1.46E-02 |
| 167           | 4.01E-02 | 5   | 8.02E-03 |
| 168           | 2.75E-02 | 5   | 5.50E-03 |
| 169           | 1.94E-02 | 5   | 3.89E-03 |
| 170           | 1.48E-02 | 5   | 2.96E-03 |
| 171           | 9.30E-03 | 5   | 1.86E-03 |
| 172           | 7.04E-03 | 5   | 1.41E-03 |
| 173           | 5.84E-03 | 5   | 1.17E-03 |
| 174           | 1.17E-01 | 5   | 2.33E-02 |
| 175           | 7.37E-02 | 5   | 1.47E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 4.55E-02 | 5   | 9.10E-03 |
| 177           | 3.09E-02 | 5   | 6.18E-03 |
| 178           | 2.18E-02 | 5   | 4.36E-03 |
| 179           | 1.58E-02 | 5   | 3.16E-03 |
| 180           | 1.22E-02 | 5   | 2.44E-03 |
| 181           | 8.47E-03 | 5   | 1.69E-03 |
| 182           | 6.90E-03 | 5   | 1.38E-03 |
| 183           | 9.76E-02 | 5   | 1.95E-02 |
| 184           | 6.91E-02 | 5   | 1.38E-02 |
| 185           | 4.81E-02 | 5   | 9.63E-03 |
| 186           | 3.29E-02 | 5   | 6.59E-03 |
| 187           | 2.41E-02 | 5   | 4.82E-03 |
| 188           | 1.79E-02 | 5   | 3.57E-03 |
| 189           | 1.38E-02 | 5   | 2.76E-03 |
| 190           | 1.10E-02 | 5   | 2.19E-03 |
| 191           | 1.14E-01 | 5   | 2.27E-02 |
| 192           | 8.22E-02 | 5   | 1.64E-02 |
| 193           | 6.09E-02 | 5   | 1.22E-02 |
| 194           | 4.55E-02 | 5   | 9.10E-03 |
| 195           | 3.36E-02 | 5   | 6.72E-03 |
| 196           | 2.51E-02 | 5   | 5.03E-03 |
| 197           | 1.94E-02 | 5   | 3.88E-03 |
| 198           | 1.48E-02 | 5   | 2.97E-03 |
| 199           | 1.20E-02 | 5   | 2.39E-03 |
| 200           | 9.85E-03 | 5   | 1.97E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 201      | 4.43E-02 | 5   | 8.87E-03 |
| 202      | 6.76E-02 | 5   | 1.35E-02 |
| 203      | 8.01E-02 | 5   | 1.60E-02 |
| 204      | 8.71E-02 | 5   | 1.74E-02 |
| 205      | 8.05E-02 | 5   | 1.61E-02 |
| 206      | 6.67E-02 | 5   | 1.33E-02 |
| 207      | 5.36E-02 | 5   | 1.07E-02 |
| 208      | 4.23E-02 | 5   | 8.45E-03 |
| 209      | 3.26E-02 | 5   | 6.52E-03 |
| 210      | 2.55E-02 | 5   | 5.09E-03 |
| 211      | 2.00E-02 | 5   | 4.00E-03 |
| 212      | 1.56E-02 | 5   | 3.13E-03 |
| 213      | 1.28E-02 | 5   | 2.56E-03 |
| 214      | 1.02E-02 | 5   | 2.04E-03 |
| 215      | 8.57E-03 | 5   | 1.71E-03 |
| 216      | 2.07E-02 | 5   | 4.13E-03 |
| 217      | 2.39E-02 | 5   | 4.78E-03 |
| 218      | 3.29E-02 | 5   | 6.58E-03 |
| 219      | 4.22E-02 | 5   | 8.44E-03 |
| 220      | 4.98E-02 | 5   | 9.96E-03 |
| 221      | 5.29E-02 | 5   | 1.06E-02 |
| 222      | 5.08E-02 | 5   | 1.02E-02 |
| 223      | 4.45E-02 | 5   | 8.89E-03 |
| 224      | 3.72E-02 | 5   | 7.43E-03 |
| 225      | 3.01E-02 | 5   | 6.02E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 226           | 2.42E-02 | 5   | 4.84E-03 |
| 227           | 1.97E-02 | 5   | 3.94E-03 |
| 228           | 1.59E-02 | 5   | 3.18E-03 |
| 229           | 1.29E-02 | 5   | 2.58E-03 |
| 230           | 1.06E-02 | 5   | 2.12E-03 |
| 231           | 8.49E-03 | 5   | 1.70E-03 |
| 232           | 1.45E-02 | 5   | 2.89E-03 |
| 233           | 1.52E-02 | 5   | 3.05E-03 |
| 234           | 2.02E-02 | 5   | 4.03E-03 |
| 235           | 2.59E-02 | 5   | 5.17E-03 |
| 236           | 3.16E-02 | 5   | 6.33E-03 |
| 237           | 3.70E-02 | 5   | 7.40E-03 |
| 238           | 3.78E-02 | 5   | 7.55E-03 |
| 239           | 3.51E-02 | 5   | 7.01E-03 |
| 240           | 3.11E-02 | 5   | 6.23E-03 |
| 241           | 2.64E-02 | 5   | 5.28E-03 |
| 242           | 2.22E-02 | 5   | 4.45E-03 |
| 243           | 1.85E-02 | 5   | 3.70E-03 |
| 244           | 1.55E-02 | 5   | 3.10E-03 |
| 245           | 1.25E-02 | 5   | 2.51E-03 |
| 246           | 1.06E-02 | 5   | 2.13E-03 |
| 247           | 8.62E-03 | 5   | 1.72E-03 |
| 248           | 1.18E-02 | 5   | 2.36E-03 |
| 249           | 1.17E-02 | 5   | 2.34E-03 |
| 250           | 1.37E-02 | 5   | 2.74E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 1.76E-02 | 5   | 3.52E-03 |
| 252           | 2.23E-02 | 5   | 4.47E-03 |
| 253           | 2.60E-02 | 5   | 5.19E-03 |
| 254           | 2.77E-02 | 5   | 5.53E-03 |
| 255           | 2.75E-02 | 5   | 5.49E-03 |
| 256           | 2.57E-02 | 5   | 5.14E-03 |
| 257           | 2.30E-02 | 5   | 4.59E-03 |
| 258           | 1.99E-02 | 5   | 3.99E-03 |
| 259           | 1.71E-02 | 5   | 3.42E-03 |
| 260           | 1.47E-02 | 5   | 2.94E-03 |
| 261           | 1.22E-02 | 5   | 2.44E-03 |
| 262           | 1.04E-02 | 5   | 2.08E-03 |
| 263           | 8.62E-03 | 5   | 1.72E-03 |
| 264           | 7.92E-03 | 5   | 1.58E-03 |
| 265           | 7.65E-03 | 5   | 1.53E-03 |
| 266           | 7.90E-03 | 5   | 1.58E-03 |
| 267           | 9.07E-03 | 5   | 1.81E-03 |
| 268           | 9.01E-03 | 5   | 1.80E-03 |
| 269           | 1.02E-02 | 5   | 2.03E-03 |
| 270           | 1.26E-02 | 5   | 2.51E-03 |
| 271           | 1.60E-02 | 5   | 3.19E-03 |
| 272           | 1.89E-02 | 5   | 3.78E-03 |
| 273           | 2.09E-02 | 5   | 4.18E-03 |
| 274           | 2.16E-02 | 5   | 4.31E-03 |
| 275           | 2.09E-02 | 5   | 4.18E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 276           | 1.95E-02 | 5   | 3.91E-03 |
| 277           | 1.76E-02 | 5   | 3.52E-03 |
| 278           | 1.56E-02 | 5   | 3.11E-03 |
| 279           | 1.37E-02 | 5   | 2.73E-03 |
| 280           | 1.17E-02 | 5   | 2.33E-03 |
| 281           | 9.85E-03 | 5   | 1.97E-03 |
| 282           | 8.30E-03 | 5   | 1.66E-03 |
| 283           | 6.29E-03 | 5   | 1.26E-03 |
| 284           | 6.03E-03 | 5   | 1.21E-03 |
| 285           | 5.91E-03 | 5   | 1.18E-03 |
| 286           | 6.26E-03 | 5   | 1.25E-03 |
| 287           | 7.14E-03 | 5   | 1.43E-03 |
| 288           | 7.78E-03 | 5   | 1.56E-03 |
| 289           | 8.09E-03 | 5   | 1.62E-03 |
| 290           | 9.79E-03 | 5   | 1.96E-03 |
| 291           | 1.19E-02 | 5   | 2.39E-03 |
| 292           | 1.42E-02 | 5   | 2.84E-03 |
| 293           | 1.60E-02 | 5   | 3.21E-03 |
| 294           | 1.71E-02 | 5   | 3.42E-03 |
| 295           | 1.72E-02 | 5   | 3.43E-03 |
| 296           | 1.66E-02 | 5   | 3.32E-03 |
| 297           | 1.55E-02 | 5   | 3.09E-03 |
| 298           | 1.40E-02 | 5   | 2.80E-03 |
| 299           | 1.25E-02 | 5   | 2.50E-03 |
| 300           | 1.09E-02 | 5   | 2.19E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 9.02E-03 | 5   | 1.80E-03 |
| 302           | 7.94E-03 | 5   | 1.59E-03 |
| 303           | 5.34E-03 | 5   | 1.07E-03 |
| 304           | 4.90E-03 | 5   | 9.80E-04 |
| 305           | 4.85E-03 | 5   | 9.70E-04 |
| 306           | 4.69E-03 | 5   | 9.38E-04 |
| 307           | 4.82E-03 | 5   | 9.65E-04 |
| 308           | 5.33E-03 | 5   | 1.07E-03 |
| 309           | 6.02E-03 | 5   | 1.20E-03 |
| 310           | 6.53E-03 | 5   | 1.31E-03 |
| 311           | 7.70E-03 | 5   | 1.54E-03 |
| 312           | 9.24E-03 | 5   | 1.85E-03 |
| 313           | 1.10E-02 | 5   | 2.19E-03 |
| 314           | 1.26E-02 | 5   | 2.51E-03 |
| 315           | 1.37E-02 | 5   | 2.74E-03 |
| 316           | 1.42E-02 | 5   | 2.84E-03 |
| 317           | 1.40E-02 | 5   | 2.81E-03 |
| 318           | 1.34E-02 | 5   | 2.68E-03 |
| 319           | 1.25E-02 | 5   | 2.50E-03 |
| 320           | 1.13E-02 | 5   | 2.26E-03 |
| 321           | 1.01E-02 | 5   | 2.02E-03 |
| 322           | 8.40E-03 | 5   | 1.68E-03 |
| 323           | 7.53E-03 | 5   | 1.51E-03 |
| 324           | 5.20E-03 | 5   | 1.04E-03 |
| 325           | 4.52E-03 | 5   | 9.04E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 326           | 4.41E-03 | 5   | 8.82E-04 |
| 327           | 3.99E-03 | 5   | 7.98E-04 |
| 328           | 3.99E-03 | 5   | 7.98E-04 |
| 329           | 4.33E-03 | 5   | 8.65E-04 |
| 330           | 4.51E-03 | 5   | 9.02E-04 |
| 331           | 4.89E-03 | 5   | 9.79E-04 |
| 332           | 5.50E-03 | 5   | 1.10E-03 |
| 333           | 6.24E-03 | 5   | 1.25E-03 |
| 334           | 7.35E-03 | 5   | 1.47E-03 |
| 335           | 8.67E-03 | 5   | 1.73E-03 |
| 336           | 9.98E-03 | 5   | 2.00E-03 |
| 337           | 1.10E-02 | 5   | 2.20E-03 |
| 338           | 1.17E-02 | 5   | 2.34E-03 |
| 339           | 1.19E-02 | 5   | 2.38E-03 |
| 340           | 1.17E-02 | 5   | 2.33E-03 |
| 341           | 1.11E-02 | 5   | 2.22E-03 |
| 342           | 9.96E-03 | 5   | 1.99E-03 |
| 343           | 9.17E-03 | 5   | 1.83E-03 |
| 344           | 7.82E-03 | 5   | 1.56E-03 |
| 345           | 7.08E-03 | 5   | 1.42E-03 |
| 346           | 3.96E-03 | 5   | 7.92E-04 |
| 347           | 3.80E-03 | 5   | 7.60E-04 |
| 348           | 3.64E-03 | 5   | 7.29E-04 |
| 349           | 3.46E-03 | 5   | 6.91E-04 |
| 350           | 3.49E-03 | 5   | 6.98E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 3.72E-03 | 5   | 7.43E-04 |
| 352           | 3.95E-03 | 5   | 7.90E-04 |
| 353           | 4.19E-03 | 5   | 8.37E-04 |
| 354           | 4.59E-03 | 5   | 9.18E-04 |
| 355           | 5.03E-03 | 5   | 1.01E-03 |
| 356           | 6.00E-03 | 5   | 1.20E-03 |
| 357           | 7.00E-03 | 5   | 1.40E-03 |
| 358           | 8.08E-03 | 5   | 1.62E-03 |
| 359           | 9.03E-03 | 5   | 1.81E-03 |
| 360           | 9.75E-03 | 5   | 1.95E-03 |
| 361           | 1.01E-02 | 5   | 2.02E-03 |
| 362           | 1.01E-02 | 5   | 2.03E-03 |
| 363           | 9.82E-03 | 5   | 1.96E-03 |
| 364           | 8.88E-03 | 5   | 1.78E-03 |
| 365           | 8.32E-03 | 5   | 1.66E-03 |
| 366           | 7.24E-03 | 5   | 1.45E-03 |
| 367           | 6.63E-03 | 5   | 1.33E-03 |
| 368           | 3.43E-03 | 5   | 6.87E-04 |
| 369           | 3.37E-03 | 5   | 6.73E-04 |
| 370           | 3.18E-03 | 5   | 6.37E-04 |
| 371           | 2.97E-03 | 5   | 5.94E-04 |
| 372           | 3.09E-03 | 5   | 6.18E-04 |
| 373           | 3.02E-03 | 5   | 6.03E-04 |
| 374           | 3.29E-03 | 5   | 6.58E-04 |
| 375           | 3.42E-03 | 5   | 6.84E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 376           | 3.74E-03 | 5   | 7.48E-04 |
| 377           | 4.05E-03 | 5   | 8.10E-04 |
| 378           | 4.31E-03 | 5   | 8.62E-04 |
| 379           | 4.98E-03 | 5   | 9.96E-04 |
| 380           | 5.51E-03 | 5   | 1.10E-03 |
| 381           | 6.63E-03 | 5   | 1.33E-03 |
| 382           | 7.47E-03 | 5   | 1.49E-03 |
| 383           | 8.15E-03 | 5   | 1.63E-03 |
| 384           | 8.59E-03 | 5   | 1.72E-03 |
| 385           | 8.73E-03 | 5   | 1.75E-03 |
| 386           | 8.58E-03 | 5   | 1.72E-03 |
| 387           | 7.92E-03 | 5   | 1.58E-03 |
| 388           | 7.51E-03 | 5   | 1.50E-03 |
| 389           | 6.69E-03 | 5   | 1.34E-03 |
| 390           | 6.18E-03 | 5   | 1.24E-03 |

**Risk Calculations - 3rd Trimester Start  
Construction Phase 5**

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    | RISK (0-2) |         | (Risk/Mil I) |                 |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|------------|---------|--------------|-----------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH        |         |              |                 |
| 1        | 0.14257 | 0.0068 | 9.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 1.02E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 1.9E-08 | 1.9E-02      | Max<br>1.15E+00 |
| 2        | 0.13369 | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.55E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.8E-08 | 1.8E-02      |                 |
| 3        | 0.12214 | 0.0068 | 8.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.73E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.6E-08 | 1.6E-02      |                 |
| 4        | 0.11318 | 0.0068 | 7.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.09E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.5E-08 | 1.5E-02      |                 |
| 5        | 0.10329 | 0.0068 | 7.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.38E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.4E-08 | 1.4E-02      |                 |
| 6        | 0.0959  | 0.0068 | 6.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 6.85E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.3E-08 | 1.3E-02      |                 |
| 7        | 0.18122 | 0.0068 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.29E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 2.4E-08 | 2.4E-02      |                 |
| 8        | 0.16599 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.19E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 2.2E-08 | 2.2E-02      |                 |
| 9        | 0.14564 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.04E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 2.0E-08 | 2.0E-02      |                 |
| 10       | 0.13566 | 0.0068 | 9.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.69E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.8E-08 | 1.8E-02      |                 |
| 11       | 0.11905 | 0.0068 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.51E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.6E-08 | 1.6E-02      |                 |
| 12       | 0.11174 | 0.0068 | 7.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.98E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.5E-08 | 1.5E-02      |                 |
| 13       | 0.10516 | 0.0068 | 7.2E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.51E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.4E-08 | 1.4E-02      |                 |
| 14       | 0.19891 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.42E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 2.7E-08 | 2.7E-02      |                 |
| 15       | 0.18538 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.32E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 2.5E-08 | 2.5E-02      |                 |
| 16       | 0.16647 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.19E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 2.2E-08 | 2.2E-02      |                 |
| 17       | 0.14661 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.05E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 2.0E-08 | 2.0E-02      |                 |
| 18       | 0.13322 | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.52E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.8E-08 | 1.8E-02      |                 |
| 19       | 0.12149 | 0.0068 | 8.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.68E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.6E-08 | 1.6E-02      |                 |
| 20       | 0.11331 | 0.0068 | 7.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.10E-07 | 1.1 | 10  | 0.12 | 70 | 1          | 1.5E-08 | 1.5E-02      |                 |
| 21       | 0.43801 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.13E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 5.9E-08 | 5.9E-02      |                 |
| 22       | 0.5016  | 0.0068 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.58E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 6.8E-08 | 6.8E-02      |                 |
| 23       | 0.53845 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.85E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 7.3E-08 | 7.3E-02      |                 |
| 24       | 0.55059 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.93E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 7.4E-08 | 7.4E-02      |                 |
| 25       | 0.61064 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.36E-06 | 1.1 | 10  | 0.12 | 70 | 1          | 8.2E-08 | 8.2E-02      |                 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 26       | 0.59517 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.25E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.0E-08  | 8.0E-02   |
| 27       | 0.54814 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.92E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.4E-08  | 7.4E-02   |
| 28       | 0.48705 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.48E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.6E-08  | 6.6E-02   |
| 29       | 0.41251 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.95E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.6E-08  | 5.6E-02   |
| 30       | 0.27062 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.6E-08  | 3.6E-02   |
| 31       | 0.24985 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-08  | 3.4E-02   |
| 32       | 0.20383 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-08  | 2.7E-02   |
| 33       | 0.19347 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-08  | 2.6E-02   |
| 34       | 0.16069 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-08  | 2.2E-02   |
| 35       | 0.14853 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-08  | 2.0E-02   |
| 36       | 0.1328  | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.49E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-08  | 1.8E-02   |
| 37       | 0.12553 | 0.0068 | 8.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.97E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-08  | 1.7E-02   |
| 38       | 0.59038 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.22E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.0E-08  | 8.0E-02   |
| 39       | 0.53496 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.82E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.2E-08  | 7.2E-02   |
| 40       | 0.57248 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.7E-08  | 7.7E-02   |
| 41       | 0.58509 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.18E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.9E-08  | 7.9E-02   |
| 42       | 0.61645 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.3E-08  | 8.3E-02   |
| 43       | 0.63781 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.56E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.6E-08  | 8.6E-02   |
| 44       | 0.60659 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.33E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.2E-08  | 8.2E-02   |
| 45       | 0.53649 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.83E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.2E-08  | 7.2E-02   |
| 46       | 0.4596  | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.28E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.2E-08  | 6.2E-02   |
| 47       | 0.41777 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.99E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.6E-08  | 5.6E-02   |
| 48       | 0.3294  | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-08  | 4.4E-02   |
| 49       | 0.28523 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.04E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.8E-08  | 3.8E-02   |
| 50       | 0.25804 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.5E-08  | 3.5E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 51       | 0.23121 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.1E-08  | 3.1E-02   |
| 52       | 0.18436 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.5E-08  | 2.5E-02   |
| 53       | 0.16289 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-08  | 2.2E-02   |
| 54       | 0.14939 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-08  | 2.0E-02   |
| 55       | 0.15235 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-08  | 2.1E-02   |
| 56       | 0.55797 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.99E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.5E-08  | 7.5E-02   |
| 57       | 0.56885 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.06E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.7E-08  | 7.7E-02   |
| 58       | 0.58821 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.20E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.9E-08  | 7.9E-02   |
| 59       | 0.68345 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.88E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.2E-08  | 9.2E-02   |
| 60       | 0.69254 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.95E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.3E-08  | 9.3E-02   |
| 61       | 0.73699 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.27E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.9E-08  | 9.9E-02   |
| 62       | 0.72167 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.7E-08  | 9.7E-02   |
| 63       | 0.62652 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.48E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.4E-08  | 8.4E-02   |
| 64       | 0.56525 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.04E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.6E-08  | 7.6E-02   |
| 65       | 0.46307 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.31E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.2E-08  | 6.2E-02   |
| 66       | 0.46763 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.34E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.3E-08  | 6.3E-02   |
| 67       | 0.32884 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-08  | 4.4E-02   |
| 68       | 0.29277 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 69       | 0.27065 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.6E-08  | 3.6E-02   |
| 70       | 0.26125 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.5E-08  | 3.5E-02   |
| 71       | 0.20425 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.8E-08  | 2.8E-02   |
| 72       | 0.1906  | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-08  | 2.6E-02   |
| 73       | 0.22012 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.0E-08  | 3.0E-02   |
| 74       | 0.62675 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.48E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.4E-08  | 8.4E-02   |
| 75       | 0.65056 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.65E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.8E-08  | 8.8E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 76       | 0.65456 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.68E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.8E-08  | 8.8E-02   |
| 77       | 0.73638 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.9E-08  | 9.9E-02   |
| 78       | 0.8471  | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.05E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 79       | 0.88849 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 80       | 0.90496 | 0.0068 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.47E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 81       | 0.82607 | 0.0068 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.90E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 82       | 0.70876 | 0.0068 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.06E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.5E-08  | 9.5E-02   |
| 83       | 0.59652 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.0E-08  | 8.0E-02   |
| 84       | 0.67997 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.86E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.2E-08  | 9.2E-02   |
| 85       | 0.34615 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.47E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.7E-08  | 4.7E-02   |
| 86       | 0.31525 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.2E-08  | 4.2E-02   |
| 87       | 0.30195 | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.1E-08  | 4.1E-02   |
| 88       | 0.28593 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.04E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 89       | 0.2696  | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.6E-08  | 3.6E-02   |
| 90       | 0.25777 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.5E-08  | 3.5E-02   |
| 91       | 0.7657  | 0.0068 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.47E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 92       | 0.78216 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.59E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 93       | 0.89506 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 94       | 0.94714 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.77E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 95       | 1.04003 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.43E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 96       | 1.12421 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.03E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 97       | 1.04229 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.45E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 98       | 0.90305 | 0.0068 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.45E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 99       | 0.88258 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.31E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 100      | 0.44117 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.9E-08  | 5.9E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 101      | 0.36795 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.63E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.0E-08  | 5.0E-02   |
| 102      | 0.34454 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.6E-08  | 4.6E-02   |
| 103      | 0.32801 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-08  | 4.4E-02   |
| 104      | 0.30575 | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.18E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.1E-08  | 4.1E-02   |
| 105      | 0.27575 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.97E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-08  | 3.7E-02   |
| 106      | 0.80913 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.78E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 107      | 0.83667 | 0.0068 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.98E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 108      | 0.94434 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.75E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 109      | 0.98691 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.05E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 110      | 1.13153 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.08E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 111      | 1.3058  | 0.0068 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.33E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-07  | 1.8E-01   |
| 112      | 1.41351 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 113      | 1.42196 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 114      | 1.36036 | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-07  | 1.8E-01   |
| 115      | 0.40925 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.92E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.5E-08  | 5.5E-02   |
| 116      | 0.39445 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.82E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.3E-08  | 5.3E-02   |
| 117      | 0.38313 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.74E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.2E-08  | 5.2E-02   |
| 118      | 0.33537 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-08  | 4.5E-02   |
| 119      | 0.28473 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.8E-08  | 3.8E-02   |
| 120      | 0.92954 | 0.0068 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.64E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 121      | 0.86551 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 122      | 0.98739 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.06E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 123      | 1.16933 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 124      | 1.386   | 0.0068 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.90E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 125      | 1.58316 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-07  | 2.1E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 126      | 1.96907 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |
| 127      | 2.35262 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.2E-07  | 3.2E-01   |
| 128      | 0.65638 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.69E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.8E-08  | 8.8E-02   |
| 129      | 0.55176 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.94E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.4E-08  | 7.4E-02   |
| 130      | 0.46604 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.33E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.3E-08  | 6.3E-02   |
| 131      | 0.38018 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.1E-08  | 5.1E-02   |
| 132      | 0.26126 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.5E-08  | 3.5E-02   |
| 133      | 0.85154 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.08E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 134      | 1.07595 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.69E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 135      | 1.3543  | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.68E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-07  | 1.8E-01   |
| 136      | 1.57548 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-07  | 2.1E-01   |
| 137      | 1.93144 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-07  | 2.6E-01   |
| 138      | 2.71283 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.94E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-07  | 3.7E-01   |
| 139      | 5.71455 | 0.0068 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.08E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 7.7E-07  | 7.7E-01   |
| 140      | 0.67028 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.79E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.0E-08  | 9.0E-02   |
| 141      | 0.52905 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.78E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.1E-08  | 7.1E-02   |
| 142      | 0.43694 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.12E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.9E-08  | 5.9E-02   |
| 143      | 0.29239 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 144      | 1.25505 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.97E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 145      | 1.65273 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-07  | 2.2E-01   |
| 146      | 1.98418 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |
| 147      | 2.64664 | 0.0068 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.6E-07  | 3.6E-01   |
| 148      | 3.89148 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.78E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 5.2E-07  | 5.2E-01   |
| 149      | 3.51153 | 0.0068 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.51E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.7E-07  | 4.7E-01   |
| 150      | 2.03503 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.45E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 151      | 1.50481 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-07  | 2.0E-01   |
| 152      | 1.22329 | 0.0068 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.74E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 153      | 0.70991 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.6E-08  | 9.6E-02   |
| 154      | 0.58106 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.8E-08  | 7.8E-02   |
| 155      | 0.47279 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.38E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.4E-08  | 6.4E-02   |
| 156      | 0.40353 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.4E-08  | 5.4E-02   |
| 157      | 3.34251 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.39E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-07  | 4.5E-01   |
| 158      | 3.76257 | 0.0068 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 5.1E-07  | 5.1E-01   |
| 159      | 4.54045 | 0.0068 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.24E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 6.1E-07  | 6.1E-01   |
| 160      | 2.52972 | 0.0068 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-07  | 3.4E-01   |
| 161      | 1.65138 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-07  | 2.2E-01   |
| 162      | 1.21511 | 0.0068 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.68E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 163      | 0.58478 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.18E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.9E-08  | 7.9E-02   |
| 164      | 0.51231 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.9E-08  | 6.9E-02   |
| 165      | 0.43002 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.8E-08  | 5.8E-02   |
| 166      | 5.34751 | 0.0068 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.82E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 7.2E-07  | 7.2E-01   |
| 167      | 2.93781 | 0.0068 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.10E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.0E-07  | 4.0E-01   |
| 168      | 2.01593 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |
| 169      | 1.42521 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 170      | 1.08462 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.75E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 171      | 0.68161 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.87E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.2E-08  | 9.2E-02   |
| 172      | 0.51579 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.69E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.9E-08  | 6.9E-02   |
| 173      | 0.42776 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.06E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.8E-08  | 5.8E-02   |
| 174      | 8.55485 | 0.0068 | 5.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.11E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-06  | 1.2E+00   |
| 175      | 5.40053 | 0.0068 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.86E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 7.3E-07  | 7.3E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 176      | 3.33391 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.38E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-07  | 4.5E-01   |
| 177      | 2.2635  | 0.0068 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.0E-07  | 3.0E-01   |
| 178      | 1.59628 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-07  | 2.2E-01   |
| 179      | 1.15673 | 0.0068 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 180      | 0.89425 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.39E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 181      | 0.62061 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.43E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.4E-08  | 8.4E-02   |
| 182      | 0.50601 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.62E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.8E-08  | 6.8E-02   |
| 183      | 7.15077 | 0.0068 | 4.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.11E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 9.6E-07  | 9.6E-01   |
| 184      | 5.06388 | 0.0068 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.62E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 6.8E-07  | 6.8E-01   |
| 185      | 3.52857 | 0.0068 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.52E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.8E-07  | 4.8E-01   |
| 186      | 2.41297 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.3E-07  | 3.3E-01   |
| 187      | 1.76478 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.4E-07  | 2.4E-01   |
| 188      | 1.30975 | 0.0068 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.36E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-07  | 1.8E-01   |
| 189      | 1.01047 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.22E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 190      | 0.80384 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.74E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 191      | 8.32687 | 0.0068 | 5.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.95E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-06  | 1.1E+00   |
| 192      | 6.02533 | 0.0068 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.31E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 8.1E-07  | 8.1E-01   |
| 193      | 4.45973 | 0.0068 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.19E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 6.0E-07  | 6.0E-01   |
| 194      | 3.33262 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.38E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-07  | 4.5E-01   |
| 195      | 2.46305 | 0.0068 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.3E-07  | 3.3E-01   |
| 196      | 1.84191 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.5E-07  | 2.5E-01   |
| 197      | 1.42077 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 198      | 1.08702 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.77E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 199      | 0.87584 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 200      | 0.72192 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.7E-08  | 9.7E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 201      | 3.24959 | 0.0068 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.32E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-07  | 4.4E-01   |
| 202      | 4.95098 | 0.0068 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.54E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 6.7E-07  | 6.7E-01   |
| 203      | 5.8668  | 0.0068 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.19E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 7.9E-07  | 7.9E-01   |
| 204      | 6.38123 | 0.0068 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.56E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 8.6E-07  | 8.6E-01   |
| 205      | 5.89622 | 0.0068 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.21E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 7.9E-07  | 7.9E-01   |
| 206      | 4.88452 | 0.0068 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.49E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 6.6E-07  | 6.6E-01   |
| 207      | 3.92915 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.81E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 5.3E-07  | 5.3E-01   |
| 208      | 3.09747 | 0.0068 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.2E-07  | 4.2E-01   |
| 209      | 2.38952 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.2E-07  | 3.2E-01   |
| 210      | 1.86639 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.5E-07  | 2.5E-01   |
| 211      | 1.46676 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-07  | 2.0E-01   |
| 212      | 1.14687 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.19E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 213      | 0.93847 | 0.0068 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.71E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 214      | 0.74904 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 215      | 0.62804 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.49E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.5E-08  | 8.5E-02   |
| 216      | 1.51358 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-07  | 2.0E-01   |
| 217      | 1.75108 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.4E-07  | 2.4E-01   |
| 218      | 2.40965 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.2E-07  | 3.2E-01   |
| 219      | 3.09162 | 0.0068 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.2E-07  | 4.2E-01   |
| 220      | 3.64843 | 0.0068 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.61E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.9E-07  | 4.9E-01   |
| 221      | 3.87704 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.77E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 5.2E-07  | 5.2E-01   |
| 222      | 3.7245  | 0.0068 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.66E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 5.0E-07  | 5.0E-01   |
| 223      | 3.25928 | 0.0068 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.33E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-07  | 4.4E-01   |
| 224      | 2.72345 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.95E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-07  | 3.7E-01   |
| 225      | 2.20632 | 0.0068 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.0E-07  | 3.0E-01   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 226      | 1.77318 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.4E-07  | 2.4E-01   |
| 227      | 1.44239 | 0.0068 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 228      | 1.16513 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.32E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 229      | 0.94394 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 230      | 0.77791 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.56E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 231      | 0.62195 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.44E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.4E-08  | 8.4E-02   |
| 232      | 1.05953 | 0.0068 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 233      | 1.11661 | 0.0068 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.98E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 234      | 1.47792 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-07  | 2.0E-01   |
| 235      | 1.89467 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-07  | 2.6E-01   |
| 236      | 2.31891 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.1E-07  | 3.1E-01   |
| 237      | 2.71307 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.94E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-07  | 3.7E-01   |
| 238      | 2.76677 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-07  | 3.7E-01   |
| 239      | 2.56931 | 0.0068 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.5E-07  | 3.5E-01   |
| 240      | 2.2825  | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.1E-07  | 3.1E-01   |
| 241      | 1.93631 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-07  | 2.6E-01   |
| 242      | 1.63045 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-07  | 2.2E-01   |
| 243      | 1.35634 | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.69E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-07  | 1.8E-01   |
| 244      | 1.13547 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.11E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 245      | 0.91896 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 246      | 0.77965 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 247      | 0.63206 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.52E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.5E-08  | 8.5E-02   |
| 248      | 0.86538 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 249      | 0.85659 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.12E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 250      | 1.00342 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.17E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 251      | 1.28849 | 0.0068 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.21E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 252      | 1.63636 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.17E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-07  | 2.2E-01   |
| 253      | 1.90198 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-07  | 2.6E-01   |
| 254      | 2.02634 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.45E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |
| 255      | 2.01179 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |
| 256      | 1.88256 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.5E-07  | 2.5E-01   |
| 257      | 1.68205 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.3E-07  | 2.3E-01   |
| 258      | 1.46116 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-07  | 2.0E-01   |
| 259      | 1.25462 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.96E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 260      | 1.07567 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.69E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 261      | 0.89369 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.39E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 262      | 0.7632  | 0.0068 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.45E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 263      | 0.63167 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.51E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.5E-08  | 8.5E-02   |
| 264      | 0.58009 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.14E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.8E-08  | 7.8E-02   |
| 265      | 0.56073 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.01E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.6E-08  | 7.6E-02   |
| 266      | 0.57902 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.14E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.8E-08  | 7.8E-02   |
| 267      | 0.66488 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.75E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.0E-08  | 9.0E-02   |
| 268      | 0.66061 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.9E-08  | 8.9E-02   |
| 269      | 0.74394 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.32E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 270      | 0.92034 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.58E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 271      | 1.1693  | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 272      | 1.38588 | 0.0068 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.90E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 273      | 1.53028 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-07  | 2.1E-01   |
| 274      | 1.58042 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-07  | 2.1E-01   |
| 275      | 1.5324  | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-07  | 2.1E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 276      | 1.43091 | 0.0068 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 277      | 1.28867 | 0.0068 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.21E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 278      | 1.14049 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 279      | 1.0007  | 0.0068 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 280      | 0.85395 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.10E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 281      | 0.7216  | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.7E-08  | 9.7E-02   |
| 282      | 0.60823 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.2E-08  | 8.2E-02   |
| 283      | 0.46088 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.29E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.2E-08  | 6.2E-02   |
| 284      | 0.44204 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.0E-08  | 6.0E-02   |
| 285      | 0.43325 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.10E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.8E-08  | 5.8E-02   |
| 286      | 0.45841 | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.28E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.2E-08  | 6.2E-02   |
| 287      | 0.52307 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.74E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.0E-08  | 7.0E-02   |
| 288      | 0.56987 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.7E-08  | 7.7E-02   |
| 289      | 0.59322 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.24E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.0E-08  | 8.0E-02   |
| 290      | 0.71744 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.13E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.7E-08  | 9.7E-02   |
| 291      | 0.87548 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 292      | 1.04219 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.45E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 293      | 1.17605 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 294      | 1.25313 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.95E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 295      | 1.25792 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.99E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 296      | 1.21473 | 0.0068 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.68E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 297      | 1.13348 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.10E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 298      | 1.02677 | 0.0068 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.34E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 299      | 0.91652 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.55E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 300      | 0.80208 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.73E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 301      | 0.6609  | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.9E-08  | 8.9E-02   |
| 302      | 0.58197 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.8E-08  | 7.8E-02   |
| 303      | 0.39159 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.3E-08  | 5.3E-02   |
| 304      | 0.35914 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.8E-08  | 4.8E-02   |
| 305      | 0.35529 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.54E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.8E-08  | 4.8E-02   |
| 306      | 0.34386 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.6E-08  | 4.6E-02   |
| 307      | 0.35356 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.53E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.8E-08  | 4.8E-02   |
| 308      | 0.39073 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.79E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.3E-08  | 5.3E-02   |
| 309      | 0.44141 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.9E-08  | 5.9E-02   |
| 310      | 0.47846 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.42E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.4E-08  | 6.4E-02   |
| 311      | 0.56418 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.03E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.6E-08  | 7.6E-02   |
| 312      | 0.67741 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.84E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.1E-08  | 9.1E-02   |
| 313      | 0.80426 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.75E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 314      | 0.92054 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.58E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 315      | 1.00261 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 316      | 1.03928 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.43E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 317      | 1.02828 | 0.0068 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 318      | 0.98264 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.02E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 319      | 0.91474 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.54E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 320      | 0.82666 | 0.0068 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.91E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 321      | 0.74121 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.30E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 322      | 0.6153  | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.3E-08  | 8.3E-02   |
| 323      | 0.55156 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.94E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.4E-08  | 7.4E-02   |
| 324      | 0.38105 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.1E-08  | 5.1E-02   |
| 325      | 0.33126 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-08  | 4.5E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 326      | 0.32305 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.31E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-08  | 4.4E-02   |
| 327      | 0.29252 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 328      | 0.29248 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 329      | 0.317   | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.27E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.3E-08  | 4.3E-02   |
| 330      | 0.33066 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-08  | 4.5E-02   |
| 331      | 0.35869 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.8E-08  | 4.8E-02   |
| 332      | 0.40288 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.4E-08  | 5.4E-02   |
| 333      | 0.4573  | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.27E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.2E-08  | 6.2E-02   |
| 334      | 0.53898 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.85E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.3E-08  | 7.3E-02   |
| 335      | 0.63508 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.54E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.6E-08  | 8.6E-02   |
| 336      | 0.73114 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.22E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.9E-08  | 9.9E-02   |
| 337      | 0.80795 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.77E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 338      | 0.85925 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.14E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 339      | 0.87375 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.24E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 340      | 0.85425 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.10E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 341      | 0.81269 | 0.0068 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.81E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 342      | 0.72959 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.21E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.8E-08  | 9.8E-02   |
| 343      | 0.67174 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.80E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.1E-08  | 9.1E-02   |
| 344      | 0.57305 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.7E-08  | 7.7E-02   |
| 345      | 0.51872 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.71E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.0E-08  | 7.0E-02   |
| 346      | 0.29019 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 347      | 0.27864 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.8E-08  | 3.8E-02   |
| 348      | 0.26697 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.91E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.6E-08  | 3.6E-02   |
| 349      | 0.25326 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-08  | 3.4E-02   |
| 350      | 0.25562 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-08  | 3.4E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 351      | 0.2724  | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.95E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-08  | 3.7E-02   |
| 352      | 0.28943 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 353      | 0.3067  | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.19E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.1E-08  | 4.1E-02   |
| 354      | 0.33648 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-08  | 4.5E-02   |
| 355      | 0.3689  | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.64E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.0E-08  | 5.0E-02   |
| 356      | 0.44002 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.14E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.9E-08  | 5.9E-02   |
| 357      | 0.51306 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.67E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.9E-08  | 6.9E-02   |
| 358      | 0.59206 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.0E-08  | 8.0E-02   |
| 359      | 0.66144 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.73E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.9E-08  | 8.9E-02   |
| 360      | 0.71417 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.10E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.6E-08  | 9.6E-02   |
| 361      | 0.73968 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.29E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 362      | 0.74345 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.31E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 363      | 0.71982 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.14E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.7E-08  | 9.7E-02   |
| 364      | 0.65107 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.65E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.8E-08  | 8.8E-02   |
| 365      | 0.60983 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.36E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.2E-08  | 8.2E-02   |
| 366      | 0.53056 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.79E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.1E-08  | 7.1E-02   |
| 367      | 0.48574 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.47E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.5E-08  | 6.5E-02   |
| 368      | 0.25159 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.80E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-08  | 3.4E-02   |
| 369      | 0.24678 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.3E-08  | 3.3E-02   |
| 370      | 0.23335 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.1E-08  | 3.1E-02   |
| 371      | 0.21774 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.56E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.9E-08  | 2.9E-02   |
| 372      | 0.22662 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.1E-08  | 3.1E-02   |
| 373      | 0.22108 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.0E-08  | 3.0E-02   |
| 374      | 0.24111 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.2E-08  | 3.2E-02   |
| 375      | 0.25062 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-08  | 3.4E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 376      | 0.27425 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-08  | 3.7E-02   |
| 377      | 0.29662 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.0E-08  | 4.0E-02   |
| 378      | 0.31582 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.3E-08  | 4.3E-02   |
| 379      | 0.36484 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.61E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.9E-08  | 4.9E-02   |
| 380      | 0.40393 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.4E-08  | 5.4E-02   |
| 381      | 0.48601 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.47E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.5E-08  | 6.5E-02   |
| 382      | 0.5477  | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.91E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.4E-08  | 7.4E-02   |
| 383      | 0.59749 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.27E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.1E-08  | 8.1E-02   |
| 384      | 0.62971 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.5E-08  | 8.5E-02   |
| 385      | 0.64012 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.6E-08  | 8.6E-02   |
| 386      | 0.62903 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.49E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.5E-08  | 8.5E-02   |
| 387      | 0.5807  | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.8E-08  | 7.8E-02   |
| 388      | 0.55072 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.93E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.4E-08  | 7.4E-02   |
| 389      | 0.49043 | 0.0068 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.50E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.6E-08  | 6.6E-02   |
| 390      | 0.45288 | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.24E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.1E-08  | 6.1E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 9.75E-04 | 5   | 1.95E-04 | 1.17E-02 |
| 2  | 9.14E-04 | 5   | 1.83E-04 |          |
| 3  | 8.35E-04 | 5   | 1.67E-04 |          |
| 4  | 7.74E-04 | 5   | 1.55E-04 |          |
| 5  | 7.06E-04 | 5   | 1.41E-04 |          |
| 6  | 6.56E-04 | 5   | 1.31E-04 |          |
| 7  | 1.24E-03 | 5   | 2.48E-04 |          |
| 8  | 1.13E-03 | 5   | 2.27E-04 |          |
| 9  | 9.96E-04 | 5   | 1.99E-04 |          |
| 10 | 9.27E-04 | 5   | 1.85E-04 |          |
| 11 | 8.14E-04 | 5   | 1.63E-04 |          |
| 12 | 7.64E-04 | 5   | 1.53E-04 |          |
| 13 | 7.19E-04 | 5   | 1.44E-04 |          |
| 14 | 1.36E-03 | 5   | 2.72E-04 |          |
| 15 | 1.27E-03 | 5   | 2.53E-04 |          |
| 16 | 1.14E-03 | 5   | 2.28E-04 |          |
| 17 | 1.00E-03 | 5   | 2.00E-04 |          |
| 18 | 9.11E-04 | 5   | 1.82E-04 |          |
| 19 | 8.31E-04 | 5   | 1.66E-04 |          |
| 20 | 7.75E-04 | 5   | 1.55E-04 |          |
| 21 | 2.99E-03 | 5   | 5.99E-04 |          |
| 22 | 3.43E-03 | 5   | 6.86E-04 |          |
| 23 | 3.68E-03 | 5   | 7.36E-04 |          |
| 24 | 3.76E-03 | 5   | 7.53E-04 |          |
| 25 | 4.17E-03 | 5   | 8.35E-04 |          |



**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 4.07E-03    | 5          | 8.14E-04  |
| 27       | 3.75E-03    | 5          | 7.49E-04  |
| 28       | 3.33E-03    | 5          | 6.66E-04  |
| 29       | 2.82E-03    | 5          | 5.64E-04  |
| 30       | 1.85E-03    | 5          | 3.70E-04  |
| 31       | 1.71E-03    | 5          | 3.42E-04  |
| 32       | 1.39E-03    | 5          | 2.79E-04  |
| 33       | 1.32E-03    | 5          | 2.65E-04  |
| 34       | 1.10E-03    | 5          | 2.20E-04  |
| 35       | 1.02E-03    | 5          | 2.03E-04  |
| 36       | 9.08E-04    | 5          | 1.82E-04  |
| 37       | 8.58E-04    | 5          | 1.72E-04  |
| 38       | 4.04E-03    | 5          | 8.07E-04  |
| 39       | 3.66E-03    | 5          | 7.31E-04  |
| 40       | 3.91E-03    | 5          | 7.83E-04  |
| 41       | 4.00E-03    | 5          | 8.00E-04  |
| 42       | 4.21E-03    | 5          | 8.43E-04  |
| 43       | 4.36E-03    | 5          | 8.72E-04  |
| 44       | 4.15E-03    | 5          | 8.29E-04  |
| 45       | 3.67E-03    | 5          | 7.33E-04  |
| 46       | 3.14E-03    | 5          | 6.28E-04  |
| 47       | 2.86E-03    | 5          | 5.71E-04  |
| 48       | 2.25E-03    | 5          | 4.50E-04  |
| 49       | 1.95E-03    | 5          | 3.90E-04  |
| 50       | 1.76E-03    | 5          | 3.53E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 1.58E-03    | 5          | 3.16E-04  |
| 52       | 1.26E-03    | 5          | 2.52E-04  |
| 53       | 1.11E-03    | 5          | 2.23E-04  |
| 54       | 1.02E-03    | 5          | 2.04E-04  |
| 55       | 1.04E-03    | 5          | 2.08E-04  |
| 56       | 3.81E-03    | 5          | 7.63E-04  |
| 57       | 3.89E-03    | 5          | 7.78E-04  |
| 58       | 4.02E-03    | 5          | 8.04E-04  |
| 59       | 4.67E-03    | 5          | 9.34E-04  |
| 60       | 4.73E-03    | 5          | 9.47E-04  |
| 61       | 5.04E-03    | 5          | 1.01E-03  |
| 62       | 4.93E-03    | 5          | 9.87E-04  |
| 63       | 4.28E-03    | 5          | 8.57E-04  |
| 64       | 3.86E-03    | 5          | 7.73E-04  |
| 65       | 3.17E-03    | 5          | 6.33E-04  |
| 66       | 3.20E-03    | 5          | 6.39E-04  |
| 67       | 2.25E-03    | 5          | 4.50E-04  |
| 68       | 2.00E-03    | 5          | 4.00E-04  |
| 69       | 1.85E-03    | 5          | 3.70E-04  |
| 70       | 1.79E-03    | 5          | 3.57E-04  |
| 71       | 1.40E-03    | 5          | 2.79E-04  |
| 72       | 1.30E-03    | 5          | 2.61E-04  |
| 73       | 1.50E-03    | 5          | 3.01E-04  |
| 74       | 4.28E-03    | 5          | 8.57E-04  |
| 75       | 4.45E-03    | 5          | 8.89E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 4.47E-03    | 5          | 8.95E-04  |
| 77       | 5.03E-03    | 5          | 1.01E-03  |
| 78       | 5.79E-03    | 5          | 1.16E-03  |
| 79       | 6.07E-03    | 5          | 1.21E-03  |
| 80       | 6.19E-03    | 5          | 1.24E-03  |
| 81       | 5.65E-03    | 5          | 1.13E-03  |
| 82       | 4.85E-03    | 5          | 9.69E-04  |
| 83       | 4.08E-03    | 5          | 8.16E-04  |
| 84       | 4.65E-03    | 5          | 9.30E-04  |
| 85       | 2.37E-03    | 5          | 4.73E-04  |
| 86       | 2.16E-03    | 5          | 4.31E-04  |
| 87       | 2.06E-03    | 5          | 4.13E-04  |
| 88       | 1.95E-03    | 5          | 3.91E-04  |
| 89       | 1.84E-03    | 5          | 3.69E-04  |
| 90       | 1.76E-03    | 5          | 3.52E-04  |
| 91       | 5.23E-03    | 5          | 1.05E-03  |
| 92       | 5.35E-03    | 5          | 1.07E-03  |
| 93       | 6.12E-03    | 5          | 1.22E-03  |
| 94       | 6.47E-03    | 5          | 1.29E-03  |
| 95       | 7.11E-03    | 5          | 1.42E-03  |
| 96       | 7.69E-03    | 5          | 1.54E-03  |
| 97       | 7.13E-03    | 5          | 1.43E-03  |
| 98       | 6.17E-03    | 5          | 1.23E-03  |
| 99       | 6.03E-03    | 5          | 1.21E-03  |
| 100      | 3.02E-03    | 5          | 6.03E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 2.52E-03 | 5   | 5.03E-04 |
| 102           | 2.36E-03 | 5   | 4.71E-04 |
| 103           | 2.24E-03 | 5   | 4.48E-04 |
| 104           | 2.09E-03 | 5   | 4.18E-04 |
| 105           | 1.89E-03 | 5   | 3.77E-04 |
| 106           | 5.53E-03 | 5   | 1.11E-03 |
| 107           | 5.72E-03 | 5   | 1.14E-03 |
| 108           | 6.46E-03 | 5   | 1.29E-03 |
| 109           | 6.75E-03 | 5   | 1.35E-03 |
| 110           | 7.74E-03 | 5   | 1.55E-03 |
| 111           | 8.93E-03 | 5   | 1.79E-03 |
| 112           | 9.66E-03 | 5   | 1.93E-03 |
| 113           | 9.72E-03 | 5   | 1.94E-03 |
| 114           | 9.30E-03 | 5   | 1.86E-03 |
| 115           | 2.80E-03 | 5   | 5.60E-04 |
| 116           | 2.70E-03 | 5   | 5.39E-04 |
| 117           | 2.62E-03 | 5   | 5.24E-04 |
| 118           | 2.29E-03 | 5   | 4.59E-04 |
| 119           | 1.95E-03 | 5   | 3.89E-04 |
| 120           | 6.35E-03 | 5   | 1.27E-03 |
| 121           | 5.92E-03 | 5   | 1.18E-03 |
| 122           | 6.75E-03 | 5   | 1.35E-03 |
| 123           | 7.99E-03 | 5   | 1.60E-03 |
| 124           | 9.47E-03 | 5   | 1.89E-03 |
| 125           | 1.08E-02 | 5   | 2.16E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 126           | 1.35E-02 | 5   | 2.69E-03 |
| 127           | 1.61E-02 | 5   | 3.22E-03 |
| 128           | 4.49E-03 | 5   | 8.97E-04 |
| 129           | 3.77E-03 | 5   | 7.54E-04 |
| 130           | 3.19E-03 | 5   | 6.37E-04 |
| 131           | 2.60E-03 | 5   | 5.20E-04 |
| 132           | 1.79E-03 | 5   | 3.57E-04 |
| 133           | 5.82E-03 | 5   | 1.16E-03 |
| 134           | 7.36E-03 | 5   | 1.47E-03 |
| 135           | 9.26E-03 | 5   | 1.85E-03 |
| 136           | 1.08E-02 | 5   | 2.15E-03 |
| 137           | 1.32E-02 | 5   | 2.64E-03 |
| 138           | 1.85E-02 | 5   | 3.71E-03 |
| 139           | 3.91E-02 | 5   | 7.81E-03 |
| 140           | 4.58E-03 | 5   | 9.16E-04 |
| 141           | 3.62E-03 | 5   | 7.23E-04 |
| 142           | 2.99E-03 | 5   | 5.97E-04 |
| 143           | 2.00E-03 | 5   | 4.00E-04 |
| 144           | 8.58E-03 | 5   | 1.72E-03 |
| 145           | 1.13E-02 | 5   | 2.26E-03 |
| 146           | 1.36E-02 | 5   | 2.71E-03 |
| 147           | 1.81E-02 | 5   | 3.62E-03 |
| 148           | 2.66E-02 | 5   | 5.32E-03 |
| 149           | 2.40E-02 | 5   | 4.80E-03 |
| 150           | 1.39E-02 | 5   | 2.78E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 1.03E-02 | 5   | 2.06E-03 |
| 152           | 8.36E-03 | 5   | 1.67E-03 |
| 153           | 4.85E-03 | 5   | 9.71E-04 |
| 154           | 3.97E-03 | 5   | 7.94E-04 |
| 155           | 3.23E-03 | 5   | 6.46E-04 |
| 156           | 2.76E-03 | 5   | 5.52E-04 |
| 157           | 2.28E-02 | 5   | 4.57E-03 |
| 158           | 2.57E-02 | 5   | 5.14E-03 |
| 159           | 3.10E-02 | 5   | 6.21E-03 |
| 160           | 1.73E-02 | 5   | 3.46E-03 |
| 161           | 1.13E-02 | 5   | 2.26E-03 |
| 162           | 8.31E-03 | 5   | 1.66E-03 |
| 163           | 4.00E-03 | 5   | 8.00E-04 |
| 164           | 3.50E-03 | 5   | 7.00E-04 |
| 165           | 2.94E-03 | 5   | 5.88E-04 |
| 166           | 3.66E-02 | 5   | 7.31E-03 |
| 167           | 2.01E-02 | 5   | 4.02E-03 |
| 168           | 1.38E-02 | 5   | 2.76E-03 |
| 169           | 9.74E-03 | 5   | 1.95E-03 |
| 170           | 7.41E-03 | 5   | 1.48E-03 |
| 171           | 4.66E-03 | 5   | 9.32E-04 |
| 172           | 3.53E-03 | 5   | 7.05E-04 |
| 173           | 2.92E-03 | 5   | 5.85E-04 |
| 174           | 5.85E-02 | 5   | 1.17E-02 |
| 175           | 3.69E-02 | 5   | 7.38E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 2.28E-02 | 5   | 4.56E-03 |
| 177           | 1.55E-02 | 5   | 3.09E-03 |
| 178           | 1.09E-02 | 5   | 2.18E-03 |
| 179           | 7.91E-03 | 5   | 1.58E-03 |
| 180           | 6.11E-03 | 5   | 1.22E-03 |
| 181           | 4.24E-03 | 5   | 8.49E-04 |
| 182           | 3.46E-03 | 5   | 6.92E-04 |
| 183           | 4.89E-02 | 5   | 9.78E-03 |
| 184           | 3.46E-02 | 5   | 6.92E-03 |
| 185           | 2.41E-02 | 5   | 4.82E-03 |
| 186           | 1.65E-02 | 5   | 3.30E-03 |
| 187           | 1.21E-02 | 5   | 2.41E-03 |
| 188           | 8.95E-03 | 5   | 1.79E-03 |
| 189           | 6.91E-03 | 5   | 1.38E-03 |
| 190           | 5.50E-03 | 5   | 1.10E-03 |
| 191           | 5.69E-02 | 5   | 1.14E-02 |
| 192           | 4.12E-02 | 5   | 8.24E-03 |
| 193           | 3.05E-02 | 5   | 6.10E-03 |
| 194           | 2.28E-02 | 5   | 4.56E-03 |
| 195           | 1.68E-02 | 5   | 3.37E-03 |
| 196           | 1.26E-02 | 5   | 2.52E-03 |
| 197           | 9.71E-03 | 5   | 1.94E-03 |
| 198           | 7.43E-03 | 5   | 1.49E-03 |
| 199           | 5.99E-03 | 5   | 1.20E-03 |
| 200           | 4.94E-03 | 5   | 9.87E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 201           | 2.22E-02 | 5   | 4.44E-03 |
| 202           | 3.38E-02 | 5   | 6.77E-03 |
| 203           | 4.01E-02 | 5   | 8.02E-03 |
| 204           | 4.36E-02 | 5   | 8.72E-03 |
| 205           | 4.03E-02 | 5   | 8.06E-03 |
| 206           | 3.34E-02 | 5   | 6.68E-03 |
| 207           | 2.69E-02 | 5   | 5.37E-03 |
| 208           | 2.12E-02 | 5   | 4.23E-03 |
| 209           | 1.63E-02 | 5   | 3.27E-03 |
| 210           | 1.28E-02 | 5   | 2.55E-03 |
| 211           | 1.00E-02 | 5   | 2.01E-03 |
| 212           | 7.84E-03 | 5   | 1.57E-03 |
| 213           | 6.42E-03 | 5   | 1.28E-03 |
| 214           | 5.12E-03 | 5   | 1.02E-03 |
| 215           | 4.29E-03 | 5   | 8.59E-04 |
| 216           | 1.03E-02 | 5   | 2.07E-03 |
| 217           | 1.20E-02 | 5   | 2.39E-03 |
| 218           | 1.65E-02 | 5   | 3.29E-03 |
| 219           | 2.11E-02 | 5   | 4.23E-03 |
| 220           | 2.49E-02 | 5   | 4.99E-03 |
| 221           | 2.65E-02 | 5   | 5.30E-03 |
| 222           | 2.55E-02 | 5   | 5.09E-03 |
| 223           | 2.23E-02 | 5   | 4.46E-03 |
| 224           | 1.86E-02 | 5   | 3.72E-03 |
| 225           | 1.51E-02 | 5   | 3.02E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 226           | 1.21E-02 | 5   | 2.42E-03 |
| 227           | 9.86E-03 | 5   | 1.97E-03 |
| 228           | 7.96E-03 | 5   | 1.59E-03 |
| 229           | 6.45E-03 | 5   | 1.29E-03 |
| 230           | 5.32E-03 | 5   | 1.06E-03 |
| 231           | 4.25E-03 | 5   | 8.50E-04 |
| 232           | 7.24E-03 | 5   | 1.45E-03 |
| 233           | 7.63E-03 | 5   | 1.53E-03 |
| 234           | 1.01E-02 | 5   | 2.02E-03 |
| 235           | 1.30E-02 | 5   | 2.59E-03 |
| 236           | 1.59E-02 | 5   | 3.17E-03 |
| 237           | 1.85E-02 | 5   | 3.71E-03 |
| 238           | 1.89E-02 | 5   | 3.78E-03 |
| 239           | 1.76E-02 | 5   | 3.51E-03 |
| 240           | 1.56E-02 | 5   | 3.12E-03 |
| 241           | 1.32E-02 | 5   | 2.65E-03 |
| 242           | 1.11E-02 | 5   | 2.23E-03 |
| 243           | 9.27E-03 | 5   | 1.85E-03 |
| 244           | 7.76E-03 | 5   | 1.55E-03 |
| 245           | 6.28E-03 | 5   | 1.26E-03 |
| 246           | 5.33E-03 | 5   | 1.07E-03 |
| 247           | 4.32E-03 | 5   | 8.64E-04 |
| 248           | 5.92E-03 | 5   | 1.18E-03 |
| 249           | 5.86E-03 | 5   | 1.17E-03 |
| 250           | 6.86E-03 | 5   | 1.37E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 8.81E-03 | 5   | 1.76E-03 |
| 252           | 1.12E-02 | 5   | 2.24E-03 |
| 253           | 1.30E-02 | 5   | 2.60E-03 |
| 254           | 1.39E-02 | 5   | 2.77E-03 |
| 255           | 1.38E-02 | 5   | 2.75E-03 |
| 256           | 1.29E-02 | 5   | 2.57E-03 |
| 257           | 1.15E-02 | 5   | 2.30E-03 |
| 258           | 9.99E-03 | 5   | 2.00E-03 |
| 259           | 8.58E-03 | 5   | 1.72E-03 |
| 260           | 7.35E-03 | 5   | 1.47E-03 |
| 261           | 6.11E-03 | 5   | 1.22E-03 |
| 262           | 5.22E-03 | 5   | 1.04E-03 |
| 263           | 4.32E-03 | 5   | 8.64E-04 |
| 264           | 3.97E-03 | 5   | 7.93E-04 |
| 265           | 3.83E-03 | 5   | 7.67E-04 |
| 266           | 3.96E-03 | 5   | 7.92E-04 |
| 267           | 4.55E-03 | 5   | 9.09E-04 |
| 268           | 4.52E-03 | 5   | 9.03E-04 |
| 269           | 5.09E-03 | 5   | 1.02E-03 |
| 270           | 6.29E-03 | 5   | 1.26E-03 |
| 271           | 7.99E-03 | 5   | 1.60E-03 |
| 272           | 9.47E-03 | 5   | 1.89E-03 |
| 273           | 1.05E-02 | 5   | 2.09E-03 |
| 274           | 1.08E-02 | 5   | 2.16E-03 |
| 275           | 1.05E-02 | 5   | 2.10E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 276      | 9.78E-03 | 5   | 1.96E-03 |
| 277      | 8.81E-03 | 5   | 1.76E-03 |
| 278      | 7.80E-03 | 5   | 1.56E-03 |
| 279      | 6.84E-03 | 5   | 1.37E-03 |
| 280      | 5.84E-03 | 5   | 1.17E-03 |
| 281      | 4.93E-03 | 5   | 9.87E-04 |
| 282      | 4.16E-03 | 5   | 8.32E-04 |
| 283      | 3.15E-03 | 5   | 6.30E-04 |
| 284      | 3.02E-03 | 5   | 6.04E-04 |
| 285      | 2.96E-03 | 5   | 5.92E-04 |
| 286      | 3.13E-03 | 5   | 6.27E-04 |
| 287      | 3.58E-03 | 5   | 7.15E-04 |
| 288      | 3.90E-03 | 5   | 7.79E-04 |
| 289      | 4.06E-03 | 5   | 8.11E-04 |
| 290      | 4.90E-03 | 5   | 9.81E-04 |
| 291      | 5.98E-03 | 5   | 1.20E-03 |
| 292      | 7.12E-03 | 5   | 1.42E-03 |
| 293      | 8.04E-03 | 5   | 1.61E-03 |
| 294      | 8.57E-03 | 5   | 1.71E-03 |
| 295      | 8.60E-03 | 5   | 1.72E-03 |
| 296      | 8.30E-03 | 5   | 1.66E-03 |
| 297      | 7.75E-03 | 5   | 1.55E-03 |
| 298      | 7.02E-03 | 5   | 1.40E-03 |
| 299      | 6.27E-03 | 5   | 1.25E-03 |
| 300      | 5.48E-03 | 5   | 1.10E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 4.52E-03 | 5   | 9.04E-04 |
| 302           | 3.98E-03 | 5   | 7.96E-04 |
| 303           | 2.68E-03 | 5   | 5.35E-04 |
| 304           | 2.46E-03 | 5   | 4.91E-04 |
| 305           | 2.43E-03 | 5   | 4.86E-04 |
| 306           | 2.35E-03 | 5   | 4.70E-04 |
| 307           | 2.42E-03 | 5   | 4.83E-04 |
| 308           | 2.67E-03 | 5   | 5.34E-04 |
| 309           | 3.02E-03 | 5   | 6.04E-04 |
| 310           | 3.27E-03 | 5   | 6.54E-04 |
| 311           | 3.86E-03 | 5   | 7.71E-04 |
| 312           | 4.63E-03 | 5   | 9.26E-04 |
| 313           | 5.50E-03 | 5   | 1.10E-03 |
| 314           | 6.29E-03 | 5   | 1.26E-03 |
| 315           | 6.85E-03 | 5   | 1.37E-03 |
| 316           | 7.10E-03 | 5   | 1.42E-03 |
| 317           | 7.03E-03 | 5   | 1.41E-03 |
| 318           | 6.72E-03 | 5   | 1.34E-03 |
| 319           | 6.25E-03 | 5   | 1.25E-03 |
| 320           | 5.65E-03 | 5   | 1.13E-03 |
| 321           | 5.07E-03 | 5   | 1.01E-03 |
| 322           | 4.21E-03 | 5   | 8.41E-04 |
| 323           | 3.77E-03 | 5   | 7.54E-04 |
| 324           | 2.60E-03 | 5   | 5.21E-04 |
| 325           | 2.26E-03 | 5   | 4.53E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 326           | 2.21E-03 | 5   | 4.42E-04 |
| 327           | 2.00E-03 | 5   | 4.00E-04 |
| 328           | 2.00E-03 | 5   | 4.00E-04 |
| 329           | 2.17E-03 | 5   | 4.33E-04 |
| 330           | 2.26E-03 | 5   | 4.52E-04 |
| 331           | 2.45E-03 | 5   | 4.90E-04 |
| 332           | 2.75E-03 | 5   | 5.51E-04 |
| 333           | 3.13E-03 | 5   | 6.25E-04 |
| 334           | 3.68E-03 | 5   | 7.37E-04 |
| 335           | 4.34E-03 | 5   | 8.68E-04 |
| 336           | 5.00E-03 | 5   | 1.00E-03 |
| 337           | 5.52E-03 | 5   | 1.10E-03 |
| 338           | 5.87E-03 | 5   | 1.17E-03 |
| 339           | 5.97E-03 | 5   | 1.19E-03 |
| 340           | 5.84E-03 | 5   | 1.17E-03 |
| 341           | 5.56E-03 | 5   | 1.11E-03 |
| 342           | 4.99E-03 | 5   | 9.98E-04 |
| 343           | 4.59E-03 | 5   | 9.18E-04 |
| 344           | 3.92E-03 | 5   | 7.83E-04 |
| 345           | 3.55E-03 | 5   | 7.09E-04 |
| 346           | 1.98E-03 | 5   | 3.97E-04 |
| 347           | 1.90E-03 | 5   | 3.81E-04 |
| 348           | 1.83E-03 | 5   | 3.65E-04 |
| 349           | 1.73E-03 | 5   | 3.46E-04 |
| 350           | 1.75E-03 | 5   | 3.49E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 1.86E-03 | 5   | 3.72E-04 |
| 352           | 1.98E-03 | 5   | 3.96E-04 |
| 353           | 2.10E-03 | 5   | 4.19E-04 |
| 354           | 2.30E-03 | 5   | 4.60E-04 |
| 355           | 2.52E-03 | 5   | 5.04E-04 |
| 356           | 3.01E-03 | 5   | 6.02E-04 |
| 357           | 3.51E-03 | 5   | 7.01E-04 |
| 358           | 4.05E-03 | 5   | 8.09E-04 |
| 359           | 4.52E-03 | 5   | 9.04E-04 |
| 360           | 4.88E-03 | 5   | 9.76E-04 |
| 361           | 5.06E-03 | 5   | 1.01E-03 |
| 362           | 5.08E-03 | 5   | 1.02E-03 |
| 363           | 4.92E-03 | 5   | 9.84E-04 |
| 364           | 4.45E-03 | 5   | 8.90E-04 |
| 365           | 4.17E-03 | 5   | 8.34E-04 |
| 366           | 3.63E-03 | 5   | 7.25E-04 |
| 367           | 3.32E-03 | 5   | 6.64E-04 |
| 368           | 1.72E-03 | 5   | 3.44E-04 |
| 369           | 1.69E-03 | 5   | 3.37E-04 |
| 370           | 1.60E-03 | 5   | 3.19E-04 |
| 371           | 1.49E-03 | 5   | 2.98E-04 |
| 372           | 1.55E-03 | 5   | 3.10E-04 |
| 373           | 1.51E-03 | 5   | 3.02E-04 |
| 374           | 1.65E-03 | 5   | 3.30E-04 |
| 375           | 1.71E-03 | 5   | 3.43E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 1.87E-03    | 5          | 3.75E-04  |
| 377      | 2.03E-03    | 5          | 4.06E-04  |
| 378      | 2.16E-03    | 5          | 4.32E-04  |
| 379      | 2.49E-03    | 5          | 4.99E-04  |
| 380      | 2.76E-03    | 5          | 5.52E-04  |
| 381      | 3.32E-03    | 5          | 6.64E-04  |
| 382      | 3.74E-03    | 5          | 7.49E-04  |
| 383      | 4.08E-03    | 5          | 8.17E-04  |
| 384      | 4.30E-03    | 5          | 8.61E-04  |
| 385      | 4.38E-03    | 5          | 8.75E-04  |
| 386      | 4.30E-03    | 5          | 8.60E-04  |
| 387      | 3.97E-03    | 5          | 7.94E-04  |
| 388      | 3.76E-03    | 5          | 7.53E-04  |
| 389      | 3.35E-03    | 5          | 6.71E-04  |
| 390      | 3.10E-03    | 5          | 6.19E-04  |

**Construction Health Risk  
Assumptions and Risk Summary  
Birth to 2 years**



## Big Canyon Phase 2

### Construction Health Risk Assumptions - Birth to 2 years

|            | 3rd       | 0-2       | 2-16      | >16       | Units       |
|------------|-----------|-----------|-----------|-----------|-------------|
| DBR        | 361       | 1090      | 631       | 261       | L/kg        |
| A          | 1         | 1         | 1         | 1         | no units    |
| EF         | 0.958904  | 0.958904  | 0.958904  | 0.958904  | years       |
| Constant 1 | 0.000001  | 0.000001  | 0.000001  | 0.000001  | no units    |
| CPF        | 1.1       | 1.1       | 1.1       | 1.1       | mg/kg-day-1 |
| ASF        | 10        | 10        | 3         | 1         | no units    |
| 1A         | 0.00      | 0.03      | 0.00      | 0.00      | years       |
| 1B         | 0.00      | 0.10      | 0.00      | 0.00      | years       |
| 2A         | 0.00      | 0.10      | 0.00      | 0.00      | years       |
| 2B         | 0.00      | 0.05      | 0.00      | 0.00      | years       |
| 2C         | 0.00      | 0.05      | 0.00      | 0.00      | years       |
| 3A         | 0.00      | 0.03      | 0.00      | 0.00      | years       |
| 3B         | 0.00      | 0.03      | 0.00      | 0.00      | years       |
| 3C         | 0.00      | 0.09      | 0.00      | 0.00      | years       |
| 4          | 0.00      | 0.05      | 0.00      | 0.00      | years       |
| 5          | 0.00      | 0.12      | 0.00      | 0.00      | years       |
| AT         | 70        | 70        | 70        | 70        | years       |
| FAH        | 1         | 1         | 0.72      | 0.73      | day         |
| Constant 2 | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 | no units    |

Dose = (Cair X DBR X A X EF X Constant 1)

Cancer Risk = Dose X CPF x ASF x (ED/AT) X FAH

Risk per Million = Cancer Risk X Constant 2

Site Location 11N 418489.17 E 3721417.9 N

Met Datat KSNA John Wayne International Airport

#### Onsite

| Source ID | PM10<br>(lbs/day) | PM10<br>(gr/day) | PM10<br>(gr/sec) | Days | Years |
|-----------|-------------------|------------------|------------------|------|-------|
| 1A        | 1.0199            | 462.61886        | 0.0142784        | 12   | 0.034 |
| 1B        | 1.3357            | 605.86333        | 0.0186995        | 36   | 0.103 |
| 2A        | 0.732             | 332.02961        | 0.0102478        | 36   | 0.103 |
| 2B        | 0.4944            | 224.25607        | 0.0069215        | 18   | 0.051 |
| 2C        | 0.7259            | 329.2627         | 0.0101624        | 18   | 0.051 |
| 3A        | 0.1307            | 59.284523        | 0.0018298        | 12   | 0.034 |
| 3B        | 0.7931            | 359.74411        | 0.0111032        | 12   | 0.034 |
| 3C        | 0.4883            | 221.48915        | 0.0068361        | 30   | 0.086 |
| 4         | 0.9747            | 442.11648        | 0.0136456        | 18   | 0.051 |
| 5         | 0.4883            | 221.48915        | 0.0068361        | 42   | 0.120 |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

| Receptor |        |         |            |       |       |       |       |       |       |       |       | <i>Receptor</i>          | <i>Risk</i>                  |
|----------|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|------------------------------|
|          |        |         |            |       |       |       |       |       |       |       |       | <i>Max</i><br><i>Min</i> | 174<br>6<br>9.6911<br>0.1086 |
| #        | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C    | 4                        | 5                            |
| 1        | 418671 | 3720843 | 0.1615     | 0.011 | 0.045 | 0.025 | 0.008 | 0.012 | 0.001 | 0.009 | 0.014 | 0.016                    | 0.019                        |
| 2        | 418721 | 3720843 | 0.1514     | 0.011 | 0.042 | 0.023 | 0.008 | 0.011 | 0.001 | 0.008 | 0.013 | 0.015                    | 0.018                        |
| 3        | 418771 | 3720843 | 0.1384     | 0.010 | 0.039 | 0.021 | 0.007 | 0.010 | 0.001 | 0.008 | 0.012 | 0.014                    | 0.016                        |
| 4        | 418821 | 3720843 | 0.1282     | 0.009 | 0.036 | 0.020 | 0.007 | 0.010 | 0.001 | 0.007 | 0.011 | 0.013                    | 0.015                        |
| 5        | 418871 | 3720843 | 0.1170     | 0.008 | 0.033 | 0.018 | 0.006 | 0.009 | 0.001 | 0.006 | 0.010 | 0.012                    | 0.014                        |
| 6        | 418921 | 3720843 | 0.1086     | 0.008 | 0.030 | 0.017 | 0.006 | 0.008 | 0.001 | 0.006 | 0.009 | 0.011                    | 0.013                        |
| 7        | 418621 | 3720893 | 0.2053     | 0.015 | 0.057 | 0.031 | 0.011 | 0.016 | 0.002 | 0.011 | 0.017 | 0.021                    | 0.024                        |
| 8        | 418671 | 3720893 | 0.1880     | 0.013 | 0.052 | 0.029 | 0.010 | 0.014 | 0.002 | 0.010 | 0.016 | 0.019                    | 0.022                        |
| 9        | 418721 | 3720893 | 0.1650     | 0.012 | 0.046 | 0.025 | 0.009 | 0.013 | 0.002 | 0.009 | 0.014 | 0.017                    | 0.020                        |
| 10       | 418771 | 3720893 | 0.1537     | 0.011 | 0.043 | 0.023 | 0.008 | 0.012 | 0.001 | 0.008 | 0.013 | 0.016                    | 0.018                        |
| 11       | 418821 | 3720893 | 0.1349     | 0.010 | 0.038 | 0.021 | 0.007 | 0.010 | 0.001 | 0.007 | 0.011 | 0.014                    | 0.016                        |
| 12       | 418871 | 3720893 | 0.1266     | 0.009 | 0.035 | 0.019 | 0.007 | 0.010 | 0.001 | 0.007 | 0.011 | 0.013                    | 0.015                        |
| 13       | 418921 | 3720893 | 0.1191     | 0.008 | 0.033 | 0.018 | 0.006 | 0.009 | 0.001 | 0.007 | 0.010 | 0.012                    | 0.014                        |
| 14       | 418621 | 3720943 | 0.2253     | 0.016 | 0.063 | 0.034 | 0.012 | 0.017 | 0.002 | 0.012 | 0.019 | 0.023                    | 0.027                        |
| 15       | 418671 | 3720943 | 0.2100     | 0.015 | 0.059 | 0.032 | 0.011 | 0.016 | 0.002 | 0.012 | 0.018 | 0.021                    | 0.025                        |
| 16       | 418721 | 3720943 | 0.1886     | 0.013 | 0.053 | 0.029 | 0.010 | 0.014 | 0.002 | 0.010 | 0.016 | 0.019                    | 0.022                        |
| 17       | 418771 | 3720943 | 0.1661     | 0.012 | 0.046 | 0.025 | 0.009 | 0.013 | 0.002 | 0.009 | 0.014 | 0.017                    | 0.020                        |
| 18       | 418821 | 3720943 | 0.1509     | 0.011 | 0.042 | 0.023 | 0.008 | 0.011 | 0.001 | 0.008 | 0.013 | 0.015                    | 0.018                        |
| 19       | 418871 | 3720943 | 0.1376     | 0.010 | 0.038 | 0.021 | 0.007 | 0.010 | 0.001 | 0.008 | 0.012 | 0.014                    | 0.016                        |
| 20       | 418921 | 3720943 | 0.1284     | 0.009 | 0.036 | 0.020 | 0.007 | 0.010 | 0.001 | 0.007 | 0.011 | 0.013                    | 0.015                        |
| 21       | 418021 | 3720993 | 0.4962     | 0.035 | 0.138 | 0.076 | 0.026 | 0.038 | 0.005 | 0.027 | 0.042 | 0.050                    | 0.059                        |
| 22       | 418071 | 3720993 | 0.5682     | 0.040 | 0.158 | 0.087 | 0.029 | 0.043 | 0.005 | 0.031 | 0.048 | 0.058                    | 0.068                        |
| 23       | 418121 | 3720993 | 0.6100     | 0.043 | 0.170 | 0.093 | 0.031 | 0.046 | 0.006 | 0.034 | 0.052 | 0.062                    | 0.073                        |
| 24       | 418171 | 3720993 | 0.6237     | 0.044 | 0.174 | 0.095 | 0.032 | 0.047 | 0.006 | 0.034 | 0.053 | 0.063                    | 0.074                        |
| 25       | 418221 | 3720993 | 0.6917     | 0.049 | 0.193 | 0.106 | 0.036 | 0.052 | 0.006 | 0.038 | 0.059 | 0.070                    | 0.082                        |
| 26       | 418271 | 3720993 | 0.6742     | 0.048 | 0.188 | 0.103 | 0.035 | 0.051 | 0.006 | 0.037 | 0.057 | 0.069                    | 0.080                        |
| 27       | 418321 | 3720993 | 0.6209     | 0.044 | 0.173 | 0.095 | 0.032 | 0.047 | 0.006 | 0.034 | 0.053 | 0.063                    | 0.074                        |
| 28       | 418371 | 3720993 | 0.5517     | 0.039 | 0.154 | 0.084 | 0.028 | 0.042 | 0.005 | 0.030 | 0.047 | 0.056                    | 0.066                        |
| 29       | 418421 | 3720993 | 0.4673     | 0.033 | 0.130 | 0.071 | 0.024 | 0.035 | 0.004 | 0.026 | 0.040 | 0.048                    | 0.056                        |
| 30       | 418571 | 3720993 | 0.3066     | 0.022 | 0.085 | 0.047 | 0.016 | 0.023 | 0.003 | 0.017 | 0.026 | 0.031                    | 0.036                        |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

| Receptor |        |         |            |       |       |       |       |       |       |       |       | <i>Receptor</i>          | <i>Risk</i>                  |
|----------|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|------------------------------|
|          |        |         |            |       |       |       |       |       |       |       |       | <i>Max</i><br><i>Min</i> | 174<br>6<br>9.6911<br>0.1086 |
| #        | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C    | 4                        | 5                            |
| 31       | 418621 | 3720993 | 0.2830     | 0.020 | 0.079 | 0.043 | 0.015 | 0.021 | 0.003 | 0.016 | 0.024 | 0.029                    | 0.034                        |
| 32       | 418671 | 3720993 | 0.2309     | 0.016 | 0.064 | 0.035 | 0.012 | 0.017 | 0.002 | 0.013 | 0.020 | 0.023                    | 0.027                        |
| 33       | 418721 | 3720993 | 0.2192     | 0.016 | 0.061 | 0.033 | 0.011 | 0.017 | 0.002 | 0.012 | 0.019 | 0.022                    | 0.026                        |
| 34       | 418771 | 3720993 | 0.1820     | 0.013 | 0.051 | 0.028 | 0.009 | 0.014 | 0.002 | 0.010 | 0.015 | 0.019                    | 0.022                        |
| 35       | 418821 | 3720993 | 0.1683     | 0.012 | 0.047 | 0.026 | 0.009 | 0.013 | 0.002 | 0.009 | 0.014 | 0.017                    | 0.020                        |
| 36       | 418871 | 3720993 | 0.1504     | 0.011 | 0.042 | 0.023 | 0.008 | 0.011 | 0.001 | 0.008 | 0.013 | 0.015                    | 0.018                        |
| 37       | 418921 | 3720993 | 0.1422     | 0.010 | 0.040 | 0.022 | 0.007 | 0.011 | 0.001 | 0.008 | 0.012 | 0.014                    | 0.017                        |
| 38       | 418021 | 3721043 | 0.6688     | 0.047 | 0.187 | 0.102 | 0.035 | 0.051 | 0.006 | 0.037 | 0.057 | 0.068                    | 0.080                        |
| 39       | 418071 | 3721043 | 0.6060     | 0.043 | 0.169 | 0.093 | 0.031 | 0.046 | 0.006 | 0.033 | 0.051 | 0.062                    | 0.072                        |
| 40       | 418121 | 3721043 | 0.6485     | 0.046 | 0.181 | 0.099 | 0.033 | 0.049 | 0.006 | 0.036 | 0.055 | 0.066                    | 0.077                        |
| 41       | 418171 | 3721043 | 0.6628     | 0.047 | 0.185 | 0.101 | 0.034 | 0.050 | 0.006 | 0.037 | 0.056 | 0.067                    | 0.079                        |
| 42       | 418221 | 3721043 | 0.6983     | 0.050 | 0.195 | 0.107 | 0.036 | 0.053 | 0.006 | 0.039 | 0.059 | 0.071                    | 0.083                        |
| 43       | 418271 | 3721043 | 0.7225     | 0.051 | 0.201 | 0.110 | 0.037 | 0.055 | 0.007 | 0.040 | 0.061 | 0.074                    | 0.086                        |
| 44       | 418321 | 3721043 | 0.6872     | 0.049 | 0.192 | 0.105 | 0.035 | 0.052 | 0.006 | 0.038 | 0.058 | 0.070                    | 0.082                        |
| 45       | 418371 | 3721043 | 0.6077     | 0.043 | 0.169 | 0.093 | 0.031 | 0.046 | 0.006 | 0.034 | 0.052 | 0.062                    | 0.072                        |
| 46       | 418421 | 3721043 | 0.5206     | 0.037 | 0.145 | 0.080 | 0.027 | 0.039 | 0.005 | 0.029 | 0.044 | 0.053                    | 0.062                        |
| 47       | 418471 | 3721043 | 0.4733     | 0.034 | 0.132 | 0.072 | 0.024 | 0.036 | 0.004 | 0.026 | 0.040 | 0.048                    | 0.056                        |
| 48       | 418571 | 3721043 | 0.3731     | 0.026 | 0.104 | 0.057 | 0.019 | 0.028 | 0.003 | 0.021 | 0.032 | 0.038                    | 0.044                        |
| 49       | 418621 | 3721043 | 0.3231     | 0.023 | 0.090 | 0.049 | 0.017 | 0.024 | 0.003 | 0.018 | 0.027 | 0.033                    | 0.038                        |
| 50       | 418671 | 3721043 | 0.2923     | 0.021 | 0.082 | 0.045 | 0.015 | 0.022 | 0.003 | 0.016 | 0.025 | 0.030                    | 0.035                        |
| 51       | 418721 | 3721043 | 0.2619     | 0.019 | 0.073 | 0.040 | 0.014 | 0.020 | 0.002 | 0.014 | 0.022 | 0.027                    | 0.031                        |
| 52       | 418771 | 3721043 | 0.2088     | 0.015 | 0.058 | 0.032 | 0.011 | 0.016 | 0.002 | 0.012 | 0.018 | 0.021                    | 0.025                        |
| 53       | 418821 | 3721043 | 0.1845     | 0.013 | 0.051 | 0.028 | 0.010 | 0.014 | 0.002 | 0.010 | 0.016 | 0.019                    | 0.022                        |
| 54       | 418871 | 3721043 | 0.1692     | 0.012 | 0.047 | 0.026 | 0.009 | 0.013 | 0.002 | 0.009 | 0.014 | 0.017                    | 0.020                        |
| 55       | 418921 | 3721043 | 0.1726     | 0.012 | 0.048 | 0.026 | 0.009 | 0.013 | 0.002 | 0.010 | 0.015 | 0.018                    | 0.021                        |
| 56       | 418021 | 3721093 | 0.6321     | 0.045 | 0.176 | 0.097 | 0.033 | 0.048 | 0.006 | 0.035 | 0.054 | 0.064                    | 0.075                        |
| 57       | 418071 | 3721093 | 0.6444     | 0.046 | 0.180 | 0.098 | 0.033 | 0.049 | 0.006 | 0.036 | 0.055 | 0.066                    | 0.077                        |
| 58       | 418121 | 3721093 | 0.6663     | 0.047 | 0.186 | 0.102 | 0.034 | 0.050 | 0.006 | 0.037 | 0.057 | 0.068                    | 0.079                        |
| 59       | 418171 | 3721093 | 0.7742     | 0.055 | 0.216 | 0.118 | 0.040 | 0.059 | 0.007 | 0.043 | 0.066 | 0.079                    | 0.092                        |
| 60       | 418221 | 3721093 | 0.7845     | 0.056 | 0.219 | 0.120 | 0.040 | 0.059 | 0.007 | 0.043 | 0.067 | 0.080                    | 0.093                        |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Receptor</i> | <i>Risk</i> |
|-----------------|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------------|
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Max</i>      | 174         |
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Min</i>      | 6           |
| <i>Receptor</i> |        |         |            |       |       |       |       |       |       |       |       |                 |             |
| #               | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C    | 4               | 5           |
| 61              | 418271 | 3721093 | 0.8349     | 0.059 | 0.233 | 0.128 | 0.043 | 0.063 | 0.008 | 0.046 | 0.071 | 0.085           | 0.099       |
| 62              | 418321 | 3721093 | 0.8175     | 0.058 | 0.228 | 0.125 | 0.042 | 0.062 | 0.007 | 0.045 | 0.069 | 0.083           | 0.097       |
| 63              | 418371 | 3721093 | 0.7097     | 0.050 | 0.198 | 0.108 | 0.037 | 0.054 | 0.006 | 0.039 | 0.060 | 0.072           | 0.084       |
| 64              | 418421 | 3721093 | 0.6403     | 0.045 | 0.179 | 0.098 | 0.033 | 0.049 | 0.006 | 0.035 | 0.054 | 0.065           | 0.076       |
| 65              | 418471 | 3721093 | 0.5246     | 0.037 | 0.146 | 0.080 | 0.027 | 0.040 | 0.005 | 0.029 | 0.045 | 0.053           | 0.062       |
| 66              | 418521 | 3721093 | 0.5297     | 0.038 | 0.148 | 0.081 | 0.027 | 0.040 | 0.005 | 0.029 | 0.045 | 0.054           | 0.063       |
| 67              | 418621 | 3721093 | 0.3725     | 0.026 | 0.104 | 0.057 | 0.019 | 0.028 | 0.003 | 0.021 | 0.032 | 0.038           | 0.044       |
| 68              | 418671 | 3721093 | 0.3317     | 0.024 | 0.092 | 0.051 | 0.017 | 0.025 | 0.003 | 0.018 | 0.028 | 0.034           | 0.039       |
| 69              | 418721 | 3721093 | 0.3066     | 0.022 | 0.086 | 0.047 | 0.016 | 0.023 | 0.003 | 0.017 | 0.026 | 0.031           | 0.036       |
| 70              | 418771 | 3721093 | 0.2959     | 0.021 | 0.083 | 0.045 | 0.015 | 0.022 | 0.003 | 0.016 | 0.025 | 0.030           | 0.035       |
| 71              | 418821 | 3721093 | 0.2314     | 0.016 | 0.065 | 0.035 | 0.012 | 0.018 | 0.002 | 0.013 | 0.020 | 0.024           | 0.028       |
| 72              | 418871 | 3721093 | 0.2159     | 0.015 | 0.060 | 0.033 | 0.011 | 0.016 | 0.002 | 0.012 | 0.018 | 0.022           | 0.026       |
| 73              | 418921 | 3721093 | 0.2494     | 0.018 | 0.070 | 0.038 | 0.013 | 0.019 | 0.002 | 0.014 | 0.021 | 0.025           | 0.030       |
| 74              | 418021 | 3721143 | 0.7100     | 0.050 | 0.198 | 0.109 | 0.037 | 0.054 | 0.006 | 0.039 | 0.060 | 0.072           | 0.084       |
| 75              | 418071 | 3721143 | 0.7370     | 0.052 | 0.206 | 0.113 | 0.038 | 0.056 | 0.007 | 0.041 | 0.063 | 0.075           | 0.088       |
| 76              | 418121 | 3721143 | 0.7415     | 0.053 | 0.207 | 0.113 | 0.038 | 0.056 | 0.007 | 0.041 | 0.063 | 0.075           | 0.088       |
| 77              | 418171 | 3721143 | 0.8342     | 0.059 | 0.233 | 0.127 | 0.043 | 0.063 | 0.008 | 0.046 | 0.071 | 0.085           | 0.099       |
| 78              | 418221 | 3721143 | 0.9596     | 0.068 | 0.268 | 0.147 | 0.050 | 0.073 | 0.009 | 0.053 | 0.082 | 0.098           | 0.114       |
| 79              | 418271 | 3721143 | 1.0065     | 0.071 | 0.281 | 0.154 | 0.052 | 0.076 | 0.009 | 0.056 | 0.086 | 0.102           | 0.120       |
| 80              | 418321 | 3721143 | 1.0252     | 0.073 | 0.286 | 0.157 | 0.053 | 0.078 | 0.009 | 0.057 | 0.087 | 0.104           | 0.122       |
| 81              | 418371 | 3721143 | 0.9358     | 0.066 | 0.261 | 0.143 | 0.048 | 0.071 | 0.009 | 0.052 | 0.080 | 0.095           | 0.111       |
| 82              | 418421 | 3721143 | 0.8029     | 0.057 | 0.224 | 0.123 | 0.041 | 0.061 | 0.007 | 0.044 | 0.068 | 0.082           | 0.095       |
| 83              | 418471 | 3721143 | 0.6757     | 0.048 | 0.188 | 0.103 | 0.035 | 0.051 | 0.006 | 0.037 | 0.057 | 0.069           | 0.080       |
| 84              | 418521 | 3721143 | 0.7703     | 0.055 | 0.215 | 0.118 | 0.040 | 0.058 | 0.007 | 0.043 | 0.065 | 0.078           | 0.092       |
| 85              | 418671 | 3721143 | 0.3921     | 0.028 | 0.109 | 0.060 | 0.020 | 0.030 | 0.004 | 0.022 | 0.033 | 0.040           | 0.047       |
| 86              | 418721 | 3721143 | 0.3571     | 0.025 | 0.100 | 0.055 | 0.018 | 0.027 | 0.003 | 0.020 | 0.030 | 0.036           | 0.042       |
| 87              | 418771 | 3721143 | 0.3421     | 0.024 | 0.095 | 0.052 | 0.018 | 0.026 | 0.003 | 0.019 | 0.029 | 0.035           | 0.041       |
| 88              | 418821 | 3721143 | 0.3239     | 0.023 | 0.090 | 0.050 | 0.017 | 0.025 | 0.003 | 0.018 | 0.028 | 0.033           | 0.039       |
| 89              | 418871 | 3721143 | 0.3054     | 0.022 | 0.085 | 0.047 | 0.016 | 0.023 | 0.003 | 0.017 | 0.026 | 0.031           | 0.036       |
| 90              | 418921 | 3721143 | 0.2920     | 0.021 | 0.081 | 0.045 | 0.015 | 0.022 | 0.003 | 0.016 | 0.025 | 0.030           | 0.035       |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Receptor</i> | <i>Risk</i> |
|-----------------|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------------|
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Max</i>      | 174         |
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Min</i>      | 6           |
|                 |        |         |            |       |       |       |       |       |       |       |       |                 |             |
| <i>Receptor</i> |        |         |            |       |       |       |       |       |       |       |       |                 |             |
| #               | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C    | 4               | 5           |
| 91              | 418071 | 3721193 | 0.8674     | 0.062 | 0.242 | 0.133 | 0.045 | 0.066 | 0.008 | 0.048 | 0.074 | 0.088           | 0.103       |
| 92              | 418121 | 3721193 | 0.8860     | 0.063 | 0.247 | 0.135 | 0.046 | 0.067 | 0.008 | 0.049 | 0.075 | 0.090           | 0.105       |
| 93              | 418171 | 3721193 | 1.0139     | 0.072 | 0.283 | 0.155 | 0.052 | 0.077 | 0.009 | 0.056 | 0.086 | 0.103           | 0.121       |
| 94              | 418221 | 3721193 | 1.0729     | 0.076 | 0.299 | 0.164 | 0.055 | 0.081 | 0.010 | 0.059 | 0.091 | 0.109           | 0.128       |
| 95              | 418271 | 3721193 | 1.1782     | 0.084 | 0.329 | 0.180 | 0.061 | 0.089 | 0.011 | 0.065 | 0.100 | 0.120           | 0.140       |
| 96              | 418321 | 3721193 | 1.2735     | 0.090 | 0.355 | 0.195 | 0.066 | 0.097 | 0.012 | 0.070 | 0.108 | 0.130           | 0.151       |
| 97              | 418371 | 3721193 | 1.1807     | 0.084 | 0.329 | 0.180 | 0.061 | 0.089 | 0.011 | 0.065 | 0.100 | 0.120           | 0.140       |
| 98              | 418421 | 3721193 | 1.0230     | 0.073 | 0.285 | 0.156 | 0.053 | 0.078 | 0.009 | 0.056 | 0.087 | 0.104           | 0.122       |
| 99              | 418471 | 3721193 | 0.9998     | 0.071 | 0.279 | 0.153 | 0.052 | 0.076 | 0.009 | 0.055 | 0.085 | 0.102           | 0.119       |
| 100             | 418671 | 3721193 | 0.4998     | 0.035 | 0.139 | 0.076 | 0.026 | 0.038 | 0.005 | 0.028 | 0.042 | 0.051           | 0.059       |
| 101             | 418721 | 3721193 | 0.4168     | 0.030 | 0.116 | 0.064 | 0.022 | 0.032 | 0.004 | 0.023 | 0.035 | 0.042           | 0.050       |
| 102             | 418771 | 3721193 | 0.3903     | 0.028 | 0.109 | 0.060 | 0.020 | 0.030 | 0.004 | 0.022 | 0.033 | 0.040           | 0.046       |
| 103             | 418821 | 3721193 | 0.3716     | 0.026 | 0.104 | 0.057 | 0.019 | 0.028 | 0.003 | 0.021 | 0.032 | 0.038           | 0.044       |
| 104             | 418871 | 3721193 | 0.3464     | 0.025 | 0.097 | 0.053 | 0.018 | 0.026 | 0.003 | 0.019 | 0.029 | 0.035           | 0.041       |
| 105             | 418921 | 3721193 | 0.3124     | 0.022 | 0.087 | 0.048 | 0.016 | 0.024 | 0.003 | 0.017 | 0.027 | 0.032           | 0.037       |
| 106             | 418021 | 3721243 | 0.9166     | 0.065 | 0.256 | 0.140 | 0.047 | 0.069 | 0.008 | 0.051 | 0.078 | 0.093           | 0.109       |
| 107             | 418071 | 3721243 | 0.9478     | 0.067 | 0.264 | 0.145 | 0.049 | 0.072 | 0.009 | 0.052 | 0.081 | 0.096           | 0.113       |
| 108             | 418121 | 3721243 | 1.0698     | 0.076 | 0.298 | 0.163 | 0.055 | 0.081 | 0.010 | 0.059 | 0.091 | 0.109           | 0.127       |
| 109             | 418171 | 3721243 | 1.1180     | 0.079 | 0.312 | 0.171 | 0.058 | 0.085 | 0.010 | 0.062 | 0.095 | 0.114           | 0.133       |
| 110             | 418221 | 3721243 | 1.2818     | 0.091 | 0.357 | 0.196 | 0.066 | 0.097 | 0.012 | 0.071 | 0.109 | 0.130           | 0.152       |
| 111             | 418271 | 3721243 | 1.4792     | 0.105 | 0.413 | 0.226 | 0.076 | 0.112 | 0.013 | 0.082 | 0.126 | 0.151           | 0.176       |
| 112             | 418321 | 3721243 | 1.6012     | 0.114 | 0.447 | 0.245 | 0.083 | 0.121 | 0.015 | 0.088 | 0.136 | 0.163           | 0.190       |
| 113             | 418371 | 3721243 | 1.6108     | 0.114 | 0.449 | 0.246 | 0.083 | 0.122 | 0.015 | 0.089 | 0.137 | 0.164           | 0.192       |
| 114             | 418421 | 3721243 | 1.5410     | 0.109 | 0.430 | 0.236 | 0.080 | 0.117 | 0.014 | 0.085 | 0.131 | 0.157           | 0.183       |
| 115             | 418721 | 3721243 | 0.4636     | 0.033 | 0.129 | 0.071 | 0.024 | 0.035 | 0.004 | 0.026 | 0.039 | 0.047           | 0.055       |
| 116             | 418771 | 3721243 | 0.4468     | 0.032 | 0.125 | 0.068 | 0.023 | 0.034 | 0.004 | 0.025 | 0.038 | 0.045           | 0.053       |
| 117             | 418821 | 3721243 | 0.4340     | 0.031 | 0.121 | 0.066 | 0.022 | 0.033 | 0.004 | 0.024 | 0.037 | 0.044           | 0.052       |
| 118             | 418871 | 3721243 | 0.3799     | 0.027 | 0.106 | 0.058 | 0.020 | 0.029 | 0.003 | 0.021 | 0.032 | 0.039           | 0.045       |
| 119             | 418921 | 3721243 | 0.3225     | 0.023 | 0.090 | 0.049 | 0.017 | 0.024 | 0.003 | 0.018 | 0.027 | 0.033           | 0.038       |
| 120             | 418021 | 3721293 | 1.0530     | 0.075 | 0.294 | 0.161 | 0.054 | 0.080 | 0.010 | 0.058 | 0.089 | 0.107           | 0.125       |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

|                 |          |          |                   |           |           |           |           |           |           |           |           | <i>Receptor</i> | <i>Risk</i> |
|-----------------|----------|----------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|-------------|
|                 |          |          |                   |           |           |           |           |           |           |           |           | <i>Max</i>      | 9.6911      |
|                 |          |          |                   |           |           |           |           |           |           |           |           | <i>Min</i>      | 0.1086      |
| <b>Receptor</b> |          |          |                   |           |           |           |           |           |           |           |           |                 |             |
| <b>#</b>        | <b>X</b> | <b>Y</b> | <b>Total Risk</b> | <b>1A</b> | <b>1B</b> | <b>2A</b> | <b>2B</b> | <b>2C</b> | <b>3A</b> | <b>3B</b> | <b>3C</b> | <b>4</b>        | <b>5</b>    |
| 121             | 418071   | 3721293  | 0.9805            | 0.070     | 0.273     | 0.150     | 0.051     | 0.074     | 0.009     | 0.054     | 0.083     | 0.100           | 0.117       |
| 122             | 418121   | 3721293  | 1.1185            | 0.079     | 0.312     | 0.171     | 0.058     | 0.085     | 0.010     | 0.062     | 0.095     | 0.114           | 0.133       |
| 123             | 418171   | 3721293  | 1.3246            | 0.094     | 0.369     | 0.202     | 0.068     | 0.100     | 0.012     | 0.073     | 0.113     | 0.135           | 0.158       |
| 124             | 418221   | 3721293  | 1.5701            | 0.111     | 0.438     | 0.240     | 0.081     | 0.119     | 0.014     | 0.087     | 0.133     | 0.160           | 0.187       |
| 125             | 418271   | 3721293  | 1.7934            | 0.127     | 0.500     | 0.274     | 0.093     | 0.136     | 0.016     | 0.099     | 0.152     | 0.182           | 0.213       |
| 126             | 418321   | 3721293  | 2.2306            | 0.158     | 0.622     | 0.341     | 0.115     | 0.169     | 0.020     | 0.123     | 0.190     | 0.227           | 0.265       |
| 127             | 418371   | 3721293  | 2.6651            | 0.189     | 0.743     | 0.407     | 0.138     | 0.202     | 0.024     | 0.147     | 0.226     | 0.271           | 0.317       |
| 128             | 418721   | 3721293  | 0.7436            | 0.053     | 0.207     | 0.114     | 0.038     | 0.056     | 0.007     | 0.041     | 0.063     | 0.076           | 0.088       |
| 129             | 418771   | 3721293  | 0.6250            | 0.044     | 0.174     | 0.096     | 0.032     | 0.047     | 0.006     | 0.034     | 0.053     | 0.064           | 0.074       |
| 130             | 418821   | 3721293  | 0.5279            | 0.037     | 0.147     | 0.081     | 0.027     | 0.040     | 0.005     | 0.029     | 0.045     | 0.054           | 0.063       |
| 131             | 418871   | 3721293  | 0.4307            | 0.031     | 0.120     | 0.066     | 0.022     | 0.033     | 0.004     | 0.024     | 0.037     | 0.044           | 0.051       |
| 132             | 418921   | 3721293  | 0.2960            | 0.021     | 0.083     | 0.045     | 0.015     | 0.022     | 0.003     | 0.016     | 0.025     | 0.030           | 0.035       |
| 133             | 418071   | 3721343  | 0.9646            | 0.068     | 0.269     | 0.147     | 0.050     | 0.073     | 0.009     | 0.053     | 0.082     | 0.098           | 0.115       |
| 134             | 418121   | 3721343  | 1.2189            | 0.087     | 0.340     | 0.186     | 0.063     | 0.092     | 0.011     | 0.067     | 0.104     | 0.124           | 0.145       |
| 135             | 418171   | 3721343  | 1.5342            | 0.109     | 0.428     | 0.234     | 0.079     | 0.116     | 0.014     | 0.085     | 0.130     | 0.156           | 0.182       |
| 136             | 418221   | 3721343  | 1.7847            | 0.127     | 0.498     | 0.273     | 0.092     | 0.135     | 0.016     | 0.099     | 0.152     | 0.182           | 0.212       |
| 137             | 418271   | 3721343  | 2.1880            | 0.155     | 0.610     | 0.334     | 0.113     | 0.166     | 0.020     | 0.121     | 0.186     | 0.223           | 0.260       |
| 138             | 418321   | 3721343  | 3.0731            | 0.218     | 0.857     | 0.470     | 0.159     | 0.233     | 0.028     | 0.170     | 0.261     | 0.313           | 0.366       |
| 139             | 418370   | 3721344  | 6.4735            | 0.459     | 1.805     | 0.989     | 0.334     | 0.491     | 0.059     | 0.357     | 0.550     | 0.659           | 0.770       |
| 140             | 418771   | 3721343  | 0.7593            | 0.054     | 0.212     | 0.116     | 0.039     | 0.058     | 0.007     | 0.042     | 0.065     | 0.077           | 0.090       |
| 141             | 418821   | 3721343  | 0.5993            | 0.043     | 0.167     | 0.092     | 0.031     | 0.045     | 0.005     | 0.033     | 0.051     | 0.061           | 0.071       |
| 142             | 418871   | 3721343  | 0.4950            | 0.035     | 0.138     | 0.076     | 0.026     | 0.038     | 0.005     | 0.027     | 0.042     | 0.050           | 0.059       |
| 143             | 418921   | 3721343  | 0.3312            | 0.024     | 0.092     | 0.051     | 0.017     | 0.025     | 0.003     | 0.018     | 0.028     | 0.034           | 0.039       |
| 144             | 418121   | 3721393  | 1.4217            | 0.101     | 0.396     | 0.217     | 0.073     | 0.108     | 0.013     | 0.078     | 0.121     | 0.145           | 0.169       |
| 145             | 418171   | 3721393  | 1.8722            | 0.133     | 0.522     | 0.286     | 0.097     | 0.142     | 0.017     | 0.103     | 0.159     | 0.190           | 0.223       |
| 146             | 418221   | 3721393  | 2.2477            | 0.160     | 0.627     | 0.344     | 0.116     | 0.170     | 0.020     | 0.124     | 0.191     | 0.229           | 0.267       |
| 147             | 418271   | 3721393  | 2.9982            | 0.213     | 0.836     | 0.458     | 0.155     | 0.227     | 0.027     | 0.165     | 0.255     | 0.305           | 0.357       |
| 148             | 418321   | 3721393  | 4.4083            | 0.313     | 1.229     | 0.674     | 0.228     | 0.334     | 0.040     | 0.243     | 0.375     | 0.449           | 0.524       |
| 149             | 418521   | 3721393  | 3.9779            | 0.282     | 1.109     | 0.608     | 0.205     | 0.301     | 0.036     | 0.220     | 0.338     | 0.405           | 0.473       |
| 150             | 418571   | 3721393  | 2.3053            | 0.164     | 0.643     | 0.352     | 0.119     | 0.175     | 0.021     | 0.127     | 0.196     | 0.235           | 0.274       |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Receptor</i> | <i>Risk</i> |
|-----------------|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------------|
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Max</i>      | 174         |
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Min</i>      | 6           |
| <i>Receptor</i> |        |         |            |       |       |       |       |       |       |       |       |                 |             |
| #               | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C    | 4               | 5           |
| 151             | 418621 | 3721393 | 1.7047     | 0.121 | 0.475 | 0.261 | 0.088 | 0.129 | 0.016 | 0.094 | 0.145 | 0.173           | 0.203       |
| 152             | 418671 | 3721393 | 1.3858     | 0.098 | 0.386 | 0.212 | 0.072 | 0.105 | 0.013 | 0.076 | 0.118 | 0.141           | 0.165       |
| 153             | 418771 | 3721393 | 0.8042     | 0.057 | 0.224 | 0.123 | 0.042 | 0.061 | 0.007 | 0.044 | 0.068 | 0.082           | 0.096       |
| 154             | 418821 | 3721393 | 0.6582     | 0.047 | 0.184 | 0.101 | 0.034 | 0.050 | 0.006 | 0.036 | 0.056 | 0.067           | 0.078       |
| 155             | 418871 | 3721393 | 0.5356     | 0.038 | 0.149 | 0.082 | 0.028 | 0.041 | 0.005 | 0.030 | 0.046 | 0.054           | 0.064       |
| 156             | 418921 | 3721393 | 0.4571     | 0.032 | 0.127 | 0.070 | 0.024 | 0.035 | 0.004 | 0.025 | 0.039 | 0.047           | 0.054       |
| 157             | 418221 | 3721443 | 3.7865     | 0.269 | 1.056 | 0.579 | 0.195 | 0.287 | 0.034 | 0.209 | 0.322 | 0.385           | 0.450       |
| 158             | 418271 | 3721443 | 4.2623     | 0.303 | 1.189 | 0.651 | 0.220 | 0.323 | 0.039 | 0.235 | 0.362 | 0.434           | 0.507       |
| 159             | 418521 | 3721443 | 5.1435     | 0.365 | 1.434 | 0.786 | 0.265 | 0.390 | 0.047 | 0.284 | 0.437 | 0.523           | 0.612       |
| 160             | 418571 | 3721443 | 2.8657     | 0.203 | 0.799 | 0.438 | 0.148 | 0.217 | 0.026 | 0.158 | 0.243 | 0.292           | 0.341       |
| 161             | 418621 | 3721443 | 1.8707     | 0.133 | 0.522 | 0.286 | 0.097 | 0.142 | 0.017 | 0.103 | 0.159 | 0.190           | 0.223       |
| 162             | 418671 | 3721443 | 1.3765     | 0.098 | 0.384 | 0.210 | 0.071 | 0.104 | 0.013 | 0.076 | 0.117 | 0.140           | 0.164       |
| 163             | 418821 | 3721443 | 0.6624     | 0.047 | 0.185 | 0.101 | 0.034 | 0.050 | 0.006 | 0.037 | 0.056 | 0.067           | 0.079       |
| 164             | 418871 | 3721443 | 0.5804     | 0.041 | 0.162 | 0.089 | 0.030 | 0.044 | 0.005 | 0.032 | 0.049 | 0.059           | 0.069       |
| 165             | 418921 | 3721443 | 0.4871     | 0.035 | 0.136 | 0.074 | 0.025 | 0.037 | 0.004 | 0.027 | 0.041 | 0.050           | 0.058       |
| 166             | 418521 | 3721493 | 6.0578     | 0.430 | 1.689 | 0.926 | 0.313 | 0.459 | 0.055 | 0.334 | 0.515 | 0.616           | 0.721       |
| 167             | 418571 | 3721493 | 3.3280     | 0.236 | 0.928 | 0.509 | 0.172 | 0.252 | 0.030 | 0.184 | 0.283 | 0.339           | 0.396       |
| 168             | 418621 | 3721493 | 2.2837     | 0.162 | 0.637 | 0.349 | 0.118 | 0.173 | 0.021 | 0.126 | 0.194 | 0.232           | 0.272       |
| 169             | 418671 | 3721493 | 1.6145     | 0.115 | 0.450 | 0.247 | 0.083 | 0.122 | 0.015 | 0.089 | 0.137 | 0.164           | 0.192       |
| 170             | 418721 | 3721493 | 1.2287     | 0.087 | 0.343 | 0.188 | 0.063 | 0.093 | 0.011 | 0.068 | 0.104 | 0.125           | 0.146       |
| 171             | 418821 | 3721493 | 0.7721     | 0.055 | 0.215 | 0.118 | 0.040 | 0.059 | 0.007 | 0.043 | 0.066 | 0.079           | 0.092       |
| 172             | 418871 | 3721493 | 0.5843     | 0.041 | 0.163 | 0.089 | 0.030 | 0.044 | 0.005 | 0.032 | 0.050 | 0.059           | 0.069       |
| 173             | 418921 | 3721493 | 0.4846     | 0.034 | 0.135 | 0.074 | 0.025 | 0.037 | 0.004 | 0.027 | 0.041 | 0.049           | 0.058       |
| 174             | 418471 | 3721543 | 9.6911     | 0.688 | 2.703 | 1.481 | 0.500 | 0.734 | 0.088 | 0.535 | 0.823 | 0.986           | 1.153       |
| 175             | 418521 | 3721543 | 6.1178     | 0.434 | 1.706 | 0.935 | 0.316 | 0.464 | 0.056 | 0.338 | 0.520 | 0.622           | 0.728       |
| 176             | 418571 | 3721543 | 3.7767     | 0.268 | 1.053 | 0.577 | 0.195 | 0.286 | 0.034 | 0.208 | 0.321 | 0.384           | 0.449       |
| 177             | 418621 | 3721543 | 2.5641     | 0.182 | 0.715 | 0.392 | 0.132 | 0.194 | 0.023 | 0.142 | 0.218 | 0.261           | 0.305       |
| 178             | 418671 | 3721543 | 1.8083     | 0.128 | 0.504 | 0.276 | 0.093 | 0.137 | 0.016 | 0.100 | 0.154 | 0.184           | 0.215       |
| 179             | 418721 | 3721543 | 1.3104     | 0.093 | 0.365 | 0.200 | 0.068 | 0.099 | 0.012 | 0.072 | 0.111 | 0.133           | 0.156       |
| 180             | 418771 | 3721543 | 1.0130     | 0.072 | 0.283 | 0.155 | 0.052 | 0.077 | 0.009 | 0.056 | 0.086 | 0.103           | 0.120       |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

| Receptor |        |         |            |       |       |       |       |       |       |       |       | <i>Receptor</i>          | <i>Risk</i>                  |
|----------|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|------------------------------|
|          |        |         |            |       |       |       |       |       |       |       |       | <i>Max</i><br><i>Min</i> | 174<br>6<br>9.6911<br>0.1086 |
| #        | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C    | 4                        | 5                            |
| 181      | 418871 | 3721543 | 0.7030     | 0.050 | 0.196 | 0.107 | 0.036 | 0.053 | 0.006 | 0.039 | 0.060 | 0.072                    | 0.084                        |
| 182      | 418921 | 3721543 | 0.5732     | 0.041 | 0.160 | 0.088 | 0.030 | 0.043 | 0.005 | 0.032 | 0.049 | 0.058                    | 0.068                        |
| 183      | 418471 | 3721593 | 8.1005     | 0.575 | 2.259 | 1.238 | 0.418 | 0.614 | 0.074 | 0.447 | 0.688 | 0.824                    | 0.963                        |
| 184      | 418521 | 3721593 | 5.7365     | 0.407 | 1.600 | 0.877 | 0.296 | 0.435 | 0.052 | 0.317 | 0.487 | 0.584                    | 0.682                        |
| 185      | 418571 | 3721593 | 3.9972     | 0.284 | 1.115 | 0.611 | 0.206 | 0.303 | 0.036 | 0.221 | 0.340 | 0.407                    | 0.475                        |
| 186      | 418621 | 3721593 | 2.7335     | 0.194 | 0.762 | 0.418 | 0.141 | 0.207 | 0.025 | 0.151 | 0.232 | 0.278                    | 0.325                        |
| 187      | 418671 | 3721593 | 1.9992     | 0.142 | 0.558 | 0.306 | 0.103 | 0.151 | 0.018 | 0.110 | 0.170 | 0.203                    | 0.238                        |
| 188      | 418721 | 3721593 | 1.4837     | 0.105 | 0.414 | 0.227 | 0.077 | 0.112 | 0.013 | 0.082 | 0.126 | 0.151                    | 0.176                        |
| 189      | 418771 | 3721593 | 1.1447     | 0.081 | 0.319 | 0.175 | 0.059 | 0.087 | 0.010 | 0.063 | 0.097 | 0.116                    | 0.136                        |
| 190      | 418821 | 3721593 | 0.9106     | 0.065 | 0.254 | 0.139 | 0.047 | 0.069 | 0.008 | 0.050 | 0.077 | 0.093                    | 0.108                        |
| 191      | 418421 | 3721643 | 9.4328     | 0.670 | 2.631 | 1.442 | 0.487 | 0.715 | 0.086 | 0.521 | 0.801 | 0.960                    | 1.122                        |
| 192      | 418471 | 3721643 | 6.8256     | 0.484 | 1.903 | 1.043 | 0.352 | 0.517 | 0.062 | 0.377 | 0.580 | 0.695                    | 0.812                        |
| 193      | 418521 | 3721643 | 5.0521     | 0.359 | 1.409 | 0.772 | 0.261 | 0.383 | 0.046 | 0.279 | 0.429 | 0.514                    | 0.601                        |
| 194      | 418571 | 3721643 | 3.7752     | 0.268 | 1.053 | 0.577 | 0.195 | 0.286 | 0.034 | 0.208 | 0.321 | 0.384                    | 0.449                        |
| 195      | 418621 | 3721643 | 2.7902     | 0.198 | 0.778 | 0.426 | 0.144 | 0.211 | 0.025 | 0.154 | 0.237 | 0.284                    | 0.332                        |
| 196      | 418671 | 3721643 | 2.0865     | 0.148 | 0.582 | 0.319 | 0.108 | 0.158 | 0.019 | 0.115 | 0.177 | 0.212                    | 0.248                        |
| 197      | 418721 | 3721643 | 1.6095     | 0.114 | 0.449 | 0.246 | 0.083 | 0.122 | 0.015 | 0.089 | 0.137 | 0.164                    | 0.191                        |
| 198      | 418771 | 3721643 | 1.2314     | 0.087 | 0.343 | 0.188 | 0.064 | 0.093 | 0.011 | 0.068 | 0.105 | 0.125                    | 0.146                        |
| 199      | 418821 | 3721643 | 0.9922     | 0.070 | 0.277 | 0.152 | 0.051 | 0.075 | 0.009 | 0.055 | 0.084 | 0.101                    | 0.118                        |
| 200      | 418871 | 3721643 | 0.8178     | 0.058 | 0.228 | 0.125 | 0.042 | 0.062 | 0.007 | 0.045 | 0.069 | 0.083                    | 0.097                        |
| 201      | 418221 | 3721693 | 3.6812     | 0.261 | 1.027 | 0.563 | 0.190 | 0.279 | 0.033 | 0.203 | 0.313 | 0.375                    | 0.438                        |
| 202      | 418271 | 3721693 | 5.6086     | 0.398 | 1.564 | 0.857 | 0.289 | 0.425 | 0.051 | 0.310 | 0.476 | 0.571                    | 0.667                        |
| 203      | 418321 | 3721693 | 6.6460     | 0.472 | 1.853 | 1.016 | 0.343 | 0.504 | 0.060 | 0.367 | 0.565 | 0.676                    | 0.790                        |
| 204      | 418371 | 3721693 | 7.2288     | 0.513 | 2.016 | 1.105 | 0.373 | 0.548 | 0.066 | 0.399 | 0.614 | 0.736                    | 0.860                        |
| 205      | 418421 | 3721693 | 6.6793     | 0.474 | 1.863 | 1.021 | 0.345 | 0.506 | 0.061 | 0.369 | 0.567 | 0.680                    | 0.794                        |
| 206      | 418471 | 3721693 | 5.5333     | 0.393 | 1.543 | 0.846 | 0.286 | 0.419 | 0.050 | 0.305 | 0.470 | 0.563                    | 0.658                        |
| 207      | 418521 | 3721693 | 4.4510     | 0.316 | 1.241 | 0.680 | 0.230 | 0.337 | 0.040 | 0.246 | 0.378 | 0.453                    | 0.529                        |
| 208      | 418571 | 3721693 | 3.5089     | 0.249 | 0.979 | 0.536 | 0.181 | 0.266 | 0.032 | 0.194 | 0.298 | 0.357                    | 0.417                        |
| 209      | 418621 | 3721693 | 2.7069     | 0.192 | 0.755 | 0.414 | 0.140 | 0.205 | 0.025 | 0.149 | 0.230 | 0.275                    | 0.322                        |
| 210      | 418671 | 3721693 | 2.1143     | 0.150 | 0.590 | 0.323 | 0.109 | 0.160 | 0.019 | 0.117 | 0.180 | 0.215                    | 0.251                        |



## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

|          |     |        |         |            |       |       |       |       |       |       |       | Receptor | Risk  |        |
|----------|-----|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
|          |     |        |         |            |       |       |       |       |       |       |       | Max      | 174   | 9.6911 |
|          |     |        |         |            |       |       |       |       |       |       |       | Min      | 6     | 0.1086 |
| Receptor | #   | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C       | 4     | 5      |
|          | 211 | 418721 | 3721693 | 1.6616     | 0.118 | 0.463 | 0.254 | 0.086 | 0.126 | 0.015 | 0.092 | 0.141    | 0.169 | 0.198  |
|          | 212 | 418771 | 3721693 | 1.2992     | 0.092 | 0.362 | 0.199 | 0.067 | 0.098 | 0.012 | 0.072 | 0.110    | 0.132 | 0.155  |
|          | 213 | 418821 | 3721693 | 1.0631     | 0.075 | 0.296 | 0.162 | 0.055 | 0.081 | 0.010 | 0.059 | 0.090    | 0.108 | 0.126  |
|          | 214 | 418871 | 3721693 | 0.8485     | 0.060 | 0.237 | 0.130 | 0.044 | 0.064 | 0.008 | 0.047 | 0.072    | 0.086 | 0.101  |
|          | 215 | 418921 | 3721693 | 0.7115     | 0.050 | 0.198 | 0.109 | 0.037 | 0.054 | 0.006 | 0.039 | 0.060    | 0.072 | 0.085  |
|          | 216 | 418171 | 3721743 | 1.7146     | 0.122 | 0.478 | 0.262 | 0.088 | 0.130 | 0.016 | 0.095 | 0.146    | 0.174 | 0.204  |
|          | 217 | 418221 | 3721743 | 1.9837     | 0.141 | 0.553 | 0.303 | 0.102 | 0.150 | 0.018 | 0.109 | 0.169    | 0.202 | 0.236  |
|          | 218 | 418271 | 3721743 | 2.7297     | 0.194 | 0.761 | 0.417 | 0.141 | 0.207 | 0.025 | 0.151 | 0.232    | 0.278 | 0.325  |
|          | 219 | 418321 | 3721743 | 3.5022     | 0.249 | 0.977 | 0.535 | 0.181 | 0.265 | 0.032 | 0.193 | 0.298    | 0.356 | 0.417  |
|          | 220 | 418371 | 3721743 | 4.1330     | 0.293 | 1.153 | 0.632 | 0.213 | 0.313 | 0.038 | 0.228 | 0.351    | 0.421 | 0.492  |
|          | 221 | 418421 | 3721743 | 4.3920     | 0.312 | 1.225 | 0.671 | 0.227 | 0.333 | 0.040 | 0.242 | 0.373    | 0.447 | 0.522  |
|          | 222 | 418471 | 3721743 | 4.2192     | 0.299 | 1.177 | 0.645 | 0.218 | 0.320 | 0.038 | 0.233 | 0.358    | 0.429 | 0.502  |
|          | 223 | 418521 | 3721743 | 3.6922     | 0.262 | 1.030 | 0.564 | 0.191 | 0.280 | 0.034 | 0.204 | 0.314    | 0.376 | 0.439  |
|          | 224 | 418571 | 3721743 | 3.0852     | 0.219 | 0.860 | 0.472 | 0.159 | 0.234 | 0.028 | 0.170 | 0.262    | 0.314 | 0.367  |
|          | 225 | 418621 | 3721743 | 2.4994     | 0.177 | 0.697 | 0.382 | 0.129 | 0.189 | 0.023 | 0.138 | 0.212    | 0.254 | 0.297  |
|          | 226 | 418671 | 3721743 | 2.0087     | 0.143 | 0.560 | 0.307 | 0.104 | 0.152 | 0.018 | 0.111 | 0.171    | 0.204 | 0.239  |
|          | 227 | 418721 | 3721743 | 1.6340     | 0.116 | 0.456 | 0.250 | 0.084 | 0.124 | 0.015 | 0.090 | 0.139    | 0.166 | 0.194  |
|          | 228 | 418771 | 3721743 | 1.3199     | 0.094 | 0.368 | 0.202 | 0.068 | 0.100 | 0.012 | 0.073 | 0.112    | 0.134 | 0.157  |
|          | 229 | 418821 | 3721743 | 1.0693     | 0.076 | 0.298 | 0.163 | 0.055 | 0.081 | 0.010 | 0.059 | 0.091    | 0.109 | 0.127  |
|          | 230 | 418871 | 3721743 | 0.8812     | 0.063 | 0.246 | 0.135 | 0.045 | 0.067 | 0.008 | 0.049 | 0.075    | 0.090 | 0.105  |
|          | 231 | 418921 | 3721743 | 0.7046     | 0.050 | 0.196 | 0.108 | 0.036 | 0.053 | 0.006 | 0.039 | 0.060    | 0.072 | 0.084  |
|          | 232 | 418171 | 3721793 | 1.2003     | 0.085 | 0.335 | 0.183 | 0.062 | 0.091 | 0.011 | 0.066 | 0.102    | 0.122 | 0.143  |
|          | 233 | 418221 | 3721793 | 1.2649     | 0.090 | 0.353 | 0.193 | 0.065 | 0.096 | 0.012 | 0.070 | 0.107    | 0.129 | 0.150  |
|          | 234 | 418271 | 3721793 | 1.6742     | 0.119 | 0.467 | 0.256 | 0.086 | 0.127 | 0.015 | 0.092 | 0.142    | 0.170 | 0.199  |
|          | 235 | 418321 | 3721793 | 2.1463     | 0.152 | 0.599 | 0.328 | 0.111 | 0.163 | 0.020 | 0.118 | 0.182    | 0.218 | 0.255  |
|          | 236 | 418371 | 3721793 | 2.6269     | 0.186 | 0.733 | 0.401 | 0.136 | 0.199 | 0.024 | 0.145 | 0.223    | 0.267 | 0.312  |
|          | 237 | 418421 | 3721793 | 3.0734     | 0.218 | 0.857 | 0.470 | 0.159 | 0.233 | 0.028 | 0.170 | 0.261    | 0.313 | 0.366  |
|          | 238 | 418471 | 3721793 | 3.1342     | 0.222 | 0.874 | 0.479 | 0.162 | 0.238 | 0.029 | 0.173 | 0.266    | 0.319 | 0.373  |
|          | 239 | 418521 | 3721793 | 2.9106     | 0.207 | 0.812 | 0.445 | 0.150 | 0.221 | 0.026 | 0.161 | 0.247    | 0.296 | 0.346  |
|          | 240 | 418571 | 3721793 | 2.5857     | 0.184 | 0.721 | 0.395 | 0.133 | 0.196 | 0.024 | 0.143 | 0.220    | 0.263 | 0.308  |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Receptor</i> | <i>Risk</i> |
|-----------------|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------------|
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Max</i>      | 9.6911      |
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Min</i>      | 0.1086      |
| <i>Receptor</i> |        |         |            |       |       |       |       |       |       |       |       |                 |             |
| #               | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C    | 4               | 5           |
| 241             | 418621 | 3721793 | 2.1935     | 0.156 | 0.612 | 0.335 | 0.113 | 0.166 | 0.020 | 0.121 | 0.186 | 0.223           | 0.261       |
| 242             | 418671 | 3721793 | 1.8470     | 0.131 | 0.515 | 0.282 | 0.095 | 0.140 | 0.017 | 0.102 | 0.157 | 0.188           | 0.220       |
| 243             | 418721 | 3721793 | 1.5365     | 0.109 | 0.428 | 0.235 | 0.079 | 0.116 | 0.014 | 0.085 | 0.131 | 0.156           | 0.183       |
| 244             | 418771 | 3721793 | 1.2863     | 0.091 | 0.359 | 0.197 | 0.066 | 0.097 | 0.012 | 0.071 | 0.109 | 0.131           | 0.153       |
| 245             | 418821 | 3721793 | 1.0410     | 0.074 | 0.290 | 0.159 | 0.054 | 0.079 | 0.009 | 0.057 | 0.088 | 0.106           | 0.124       |
| 246             | 418871 | 3721793 | 0.8832     | 0.063 | 0.246 | 0.135 | 0.046 | 0.067 | 0.008 | 0.049 | 0.075 | 0.090           | 0.105       |
| 247             | 418921 | 3721793 | 0.7160     | 0.051 | 0.200 | 0.109 | 0.037 | 0.054 | 0.007 | 0.040 | 0.061 | 0.073           | 0.085       |
| 248             | 418171 | 3721843 | 0.9803     | 0.070 | 0.273 | 0.150 | 0.051 | 0.074 | 0.009 | 0.054 | 0.083 | 0.100           | 0.117       |
| 249             | 418221 | 3721843 | 0.9704     | 0.069 | 0.271 | 0.148 | 0.050 | 0.074 | 0.009 | 0.054 | 0.082 | 0.099           | 0.115       |
| 250             | 418271 | 3721843 | 1.1367     | 0.081 | 0.317 | 0.174 | 0.059 | 0.086 | 0.010 | 0.063 | 0.097 | 0.116           | 0.135       |
| 251             | 418321 | 3721843 | 1.4596     | 0.104 | 0.407 | 0.223 | 0.075 | 0.111 | 0.013 | 0.081 | 0.124 | 0.149           | 0.174       |
| 252             | 418371 | 3721843 | 1.8537     | 0.132 | 0.517 | 0.283 | 0.096 | 0.140 | 0.017 | 0.102 | 0.157 | 0.189           | 0.220       |
| 253             | 418421 | 3721843 | 2.1546     | 0.153 | 0.601 | 0.329 | 0.111 | 0.163 | 0.020 | 0.119 | 0.183 | 0.219           | 0.256       |
| 254             | 418471 | 3721843 | 2.2955     | 0.163 | 0.640 | 0.351 | 0.118 | 0.174 | 0.021 | 0.127 | 0.195 | 0.234           | 0.273       |
| 255             | 418521 | 3721843 | 2.2790     | 0.162 | 0.636 | 0.348 | 0.118 | 0.173 | 0.021 | 0.126 | 0.194 | 0.232           | 0.271       |
| 256             | 418571 | 3721843 | 2.1326     | 0.151 | 0.595 | 0.326 | 0.110 | 0.162 | 0.019 | 0.118 | 0.181 | 0.217           | 0.254       |
| 257             | 418621 | 3721843 | 1.9055     | 0.135 | 0.531 | 0.291 | 0.098 | 0.144 | 0.017 | 0.105 | 0.162 | 0.194           | 0.227       |
| 258             | 418671 | 3721843 | 1.6552     | 0.117 | 0.462 | 0.253 | 0.085 | 0.125 | 0.015 | 0.091 | 0.141 | 0.168           | 0.197       |
| 259             | 418721 | 3721843 | 1.4213     | 0.101 | 0.396 | 0.217 | 0.073 | 0.108 | 0.013 | 0.078 | 0.121 | 0.145           | 0.169       |
| 260             | 418771 | 3721843 | 1.2185     | 0.086 | 0.340 | 0.186 | 0.063 | 0.092 | 0.011 | 0.067 | 0.104 | 0.124           | 0.145       |
| 261             | 418821 | 3721843 | 1.0124     | 0.072 | 0.282 | 0.155 | 0.052 | 0.077 | 0.009 | 0.056 | 0.086 | 0.103           | 0.120       |
| 262             | 418871 | 3721843 | 0.8646     | 0.061 | 0.241 | 0.132 | 0.045 | 0.066 | 0.008 | 0.048 | 0.073 | 0.088           | 0.103       |
| 263             | 418921 | 3721843 | 0.7156     | 0.051 | 0.200 | 0.109 | 0.037 | 0.054 | 0.007 | 0.039 | 0.061 | 0.073           | 0.085       |
| 264             | 418021 | 3721893 | 0.6571     | 0.047 | 0.183 | 0.100 | 0.034 | 0.050 | 0.006 | 0.036 | 0.056 | 0.067           | 0.078       |
| 265             | 418071 | 3721893 | 0.6352     | 0.045 | 0.177 | 0.097 | 0.033 | 0.048 | 0.006 | 0.035 | 0.054 | 0.065           | 0.076       |
| 266             | 418121 | 3721893 | 0.6559     | 0.047 | 0.183 | 0.100 | 0.034 | 0.050 | 0.006 | 0.036 | 0.056 | 0.067           | 0.078       |
| 267             | 418171 | 3721893 | 0.7532     | 0.053 | 0.210 | 0.115 | 0.039 | 0.057 | 0.007 | 0.042 | 0.064 | 0.077           | 0.090       |
| 268             | 418221 | 3721893 | 0.7484     | 0.053 | 0.209 | 0.114 | 0.039 | 0.057 | 0.007 | 0.041 | 0.064 | 0.076           | 0.089       |
| 269             | 418271 | 3721893 | 0.8427     | 0.060 | 0.235 | 0.129 | 0.043 | 0.064 | 0.008 | 0.047 | 0.072 | 0.086           | 0.100       |
| 270             | 418321 | 3721893 | 1.0426     | 0.074 | 0.291 | 0.159 | 0.054 | 0.079 | 0.009 | 0.058 | 0.089 | 0.106           | 0.124       |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Receptor</i> | <i>Risk</i> |
|-----------------|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------------|
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Max</i>      | 174         |
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Min</i>      | 6           |
|                 |        |         |            |       |       |       |       |       |       |       |       |                 |             |
| <i>Receptor</i> |        |         |            |       |       |       |       |       |       |       |       |                 |             |
| #               | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C    | 4               | 5           |
| 271             | 418371 | 3721893 | 1.3246     | 0.094 | 0.369 | 0.202 | 0.068 | 0.100 | 0.012 | 0.073 | 0.113 | 0.135           | 0.158       |
| 272             | 418421 | 3721893 | 1.5699     | 0.111 | 0.438 | 0.240 | 0.081 | 0.119 | 0.014 | 0.087 | 0.133 | 0.160           | 0.187       |
| 273             | 418471 | 3721893 | 1.7335     | 0.123 | 0.483 | 0.265 | 0.089 | 0.131 | 0.016 | 0.096 | 0.147 | 0.176           | 0.206       |
| 274             | 418521 | 3721893 | 1.7903     | 0.127 | 0.499 | 0.274 | 0.092 | 0.136 | 0.016 | 0.099 | 0.152 | 0.182           | 0.213       |
| 275             | 418571 | 3721893 | 1.7359     | 0.123 | 0.484 | 0.265 | 0.090 | 0.132 | 0.016 | 0.096 | 0.147 | 0.177           | 0.206       |
| 276             | 418621 | 3721893 | 1.6210     | 0.115 | 0.452 | 0.248 | 0.084 | 0.123 | 0.015 | 0.089 | 0.138 | 0.165           | 0.193       |
| 277             | 418671 | 3721893 | 1.4598     | 0.104 | 0.407 | 0.223 | 0.075 | 0.111 | 0.013 | 0.081 | 0.124 | 0.149           | 0.174       |
| 278             | 418721 | 3721893 | 1.2920     | 0.092 | 0.360 | 0.197 | 0.067 | 0.098 | 0.012 | 0.071 | 0.110 | 0.131           | 0.154       |
| 279             | 418771 | 3721893 | 1.1336     | 0.080 | 0.316 | 0.173 | 0.059 | 0.086 | 0.010 | 0.063 | 0.096 | 0.115           | 0.135       |
| 280             | 418821 | 3721893 | 0.9674     | 0.069 | 0.270 | 0.148 | 0.050 | 0.073 | 0.009 | 0.053 | 0.082 | 0.098           | 0.115       |
| 281             | 418871 | 3721893 | 0.8174     | 0.058 | 0.228 | 0.125 | 0.042 | 0.062 | 0.007 | 0.045 | 0.069 | 0.083           | 0.097       |
| 282             | 418921 | 3721893 | 0.6890     | 0.049 | 0.192 | 0.105 | 0.036 | 0.052 | 0.006 | 0.038 | 0.059 | 0.070           | 0.082       |
| 283             | 417971 | 3721943 | 0.5221     | 0.037 | 0.146 | 0.080 | 0.027 | 0.040 | 0.005 | 0.029 | 0.044 | 0.053           | 0.062       |
| 284             | 418021 | 3721943 | 0.5008     | 0.036 | 0.140 | 0.077 | 0.026 | 0.038 | 0.005 | 0.028 | 0.043 | 0.051           | 0.060       |
| 285             | 418071 | 3721943 | 0.4908     | 0.035 | 0.137 | 0.075 | 0.025 | 0.037 | 0.004 | 0.027 | 0.042 | 0.050           | 0.058       |
| 286             | 418121 | 3721943 | 0.5193     | 0.037 | 0.145 | 0.079 | 0.027 | 0.039 | 0.005 | 0.029 | 0.044 | 0.053           | 0.062       |
| 287             | 418171 | 3721943 | 0.5925     | 0.042 | 0.165 | 0.091 | 0.031 | 0.045 | 0.005 | 0.033 | 0.050 | 0.060           | 0.070       |
| 288             | 418221 | 3721943 | 0.6456     | 0.046 | 0.180 | 0.099 | 0.033 | 0.049 | 0.006 | 0.036 | 0.055 | 0.066           | 0.077       |
| 289             | 418271 | 3721943 | 0.6720     | 0.048 | 0.187 | 0.103 | 0.035 | 0.051 | 0.006 | 0.037 | 0.057 | 0.068           | 0.080       |
| 290             | 418321 | 3721943 | 0.8127     | 0.058 | 0.227 | 0.124 | 0.042 | 0.062 | 0.007 | 0.045 | 0.069 | 0.083           | 0.097       |
| 291             | 418371 | 3721943 | 0.9918     | 0.070 | 0.277 | 0.152 | 0.051 | 0.075 | 0.009 | 0.055 | 0.084 | 0.101           | 0.118       |
| 292             | 418421 | 3721943 | 1.1806     | 0.084 | 0.329 | 0.180 | 0.061 | 0.089 | 0.011 | 0.065 | 0.100 | 0.120           | 0.140       |
| 293             | 418471 | 3721943 | 1.3322     | 0.095 | 0.372 | 0.204 | 0.069 | 0.101 | 0.012 | 0.074 | 0.113 | 0.136           | 0.158       |
| 294             | 418521 | 3721943 | 1.4196     | 0.101 | 0.396 | 0.217 | 0.073 | 0.108 | 0.013 | 0.078 | 0.121 | 0.144           | 0.169       |
| 295             | 418571 | 3721943 | 1.4250     | 0.101 | 0.397 | 0.218 | 0.074 | 0.108 | 0.013 | 0.079 | 0.121 | 0.145           | 0.169       |
| 296             | 418621 | 3721943 | 1.3761     | 0.098 | 0.384 | 0.210 | 0.071 | 0.104 | 0.013 | 0.076 | 0.117 | 0.140           | 0.164       |
| 297             | 418671 | 3721943 | 1.2840     | 0.091 | 0.358 | 0.196 | 0.066 | 0.097 | 0.012 | 0.071 | 0.109 | 0.131           | 0.153       |
| 298             | 418721 | 3721943 | 1.1631     | 0.083 | 0.324 | 0.178 | 0.060 | 0.088 | 0.011 | 0.064 | 0.099 | 0.118           | 0.138       |
| 299             | 418771 | 3721943 | 1.0382     | 0.074 | 0.290 | 0.159 | 0.054 | 0.079 | 0.009 | 0.057 | 0.088 | 0.106           | 0.123       |
| 300             | 418821 | 3721943 | 0.9086     | 0.064 | 0.253 | 0.139 | 0.047 | 0.069 | 0.008 | 0.050 | 0.077 | 0.092           | 0.108       |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

| Receptor |        |         |            |       |       |       |       |       |       |       |       | <i>Receptor</i>          | <i>Risk</i>                  |
|----------|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|------------------------------|
|          |        |         |            |       |       |       |       |       |       |       |       | <i>Max</i><br><i>Min</i> | 174<br>6<br>9.6911<br>0.1086 |
| #        | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C    | 4                        | 5                            |
| 301      | 418871 | 3721943 | 0.7487     | 0.053 | 0.209 | 0.114 | 0.039 | 0.057 | 0.007 | 0.041 | 0.064 | 0.076                    | 0.089                        |
| 302      | 418921 | 3721943 | 0.6593     | 0.047 | 0.184 | 0.101 | 0.034 | 0.050 | 0.006 | 0.036 | 0.056 | 0.067                    | 0.078                        |
| 303      | 417921 | 3721993 | 0.4436     | 0.031 | 0.124 | 0.068 | 0.023 | 0.034 | 0.004 | 0.024 | 0.038 | 0.045                    | 0.053                        |
| 304      | 417971 | 3721993 | 0.4068     | 0.029 | 0.113 | 0.062 | 0.021 | 0.031 | 0.004 | 0.022 | 0.035 | 0.041                    | 0.048                        |
| 305      | 418021 | 3721993 | 0.4025     | 0.029 | 0.112 | 0.062 | 0.021 | 0.030 | 0.004 | 0.022 | 0.034 | 0.041                    | 0.048                        |
| 306      | 418071 | 3721993 | 0.3895     | 0.028 | 0.109 | 0.060 | 0.020 | 0.030 | 0.004 | 0.022 | 0.033 | 0.040                    | 0.046                        |
| 307      | 418121 | 3721993 | 0.4005     | 0.028 | 0.112 | 0.061 | 0.021 | 0.030 | 0.004 | 0.022 | 0.034 | 0.041                    | 0.048                        |
| 308      | 418171 | 3721993 | 0.4426     | 0.031 | 0.123 | 0.068 | 0.023 | 0.034 | 0.004 | 0.024 | 0.038 | 0.045                    | 0.053                        |
| 309      | 418221 | 3721993 | 0.5000     | 0.035 | 0.139 | 0.076 | 0.026 | 0.038 | 0.005 | 0.028 | 0.042 | 0.051                    | 0.059                        |
| 310      | 418271 | 3721993 | 0.5420     | 0.038 | 0.151 | 0.083 | 0.028 | 0.041 | 0.005 | 0.030 | 0.046 | 0.055                    | 0.064                        |
| 311      | 418321 | 3721993 | 0.6391     | 0.045 | 0.178 | 0.098 | 0.033 | 0.048 | 0.006 | 0.035 | 0.054 | 0.065                    | 0.076                        |
| 312      | 418371 | 3721993 | 0.7674     | 0.054 | 0.214 | 0.117 | 0.040 | 0.058 | 0.007 | 0.042 | 0.065 | 0.078                    | 0.091                        |
| 313      | 418421 | 3721993 | 0.9111     | 0.065 | 0.254 | 0.139 | 0.047 | 0.069 | 0.008 | 0.050 | 0.077 | 0.093                    | 0.108                        |
| 314      | 418471 | 3721993 | 1.0428     | 0.074 | 0.291 | 0.159 | 0.054 | 0.079 | 0.009 | 0.058 | 0.089 | 0.106                    | 0.124                        |
| 315      | 418521 | 3721993 | 1.1358     | 0.081 | 0.317 | 0.174 | 0.059 | 0.086 | 0.010 | 0.063 | 0.096 | 0.116                    | 0.135                        |
| 316      | 418571 | 3721993 | 1.1773     | 0.084 | 0.328 | 0.180 | 0.061 | 0.089 | 0.011 | 0.065 | 0.100 | 0.120                    | 0.140                        |
| 317      | 418621 | 3721993 | 1.1649     | 0.083 | 0.325 | 0.178 | 0.060 | 0.088 | 0.011 | 0.064 | 0.099 | 0.119                    | 0.139                        |
| 318      | 418671 | 3721993 | 1.1132     | 0.079 | 0.310 | 0.170 | 0.057 | 0.084 | 0.010 | 0.061 | 0.095 | 0.113                    | 0.132                        |
| 319      | 418721 | 3721993 | 1.0362     | 0.074 | 0.289 | 0.158 | 0.053 | 0.079 | 0.009 | 0.057 | 0.088 | 0.105                    | 0.123                        |
| 320      | 418771 | 3721993 | 0.9365     | 0.066 | 0.261 | 0.143 | 0.048 | 0.071 | 0.009 | 0.052 | 0.080 | 0.095                    | 0.111                        |
| 321      | 418821 | 3721993 | 0.8397     | 0.060 | 0.234 | 0.128 | 0.043 | 0.064 | 0.008 | 0.046 | 0.071 | 0.085                    | 0.100                        |
| 322      | 418871 | 3721993 | 0.6970     | 0.049 | 0.194 | 0.107 | 0.036 | 0.053 | 0.006 | 0.038 | 0.059 | 0.071                    | 0.083                        |
| 323      | 418921 | 3721993 | 0.6248     | 0.044 | 0.174 | 0.095 | 0.032 | 0.047 | 0.006 | 0.034 | 0.053 | 0.064                    | 0.074                        |
| 324      | 417871 | 3722043 | 0.4317     | 0.031 | 0.120 | 0.066 | 0.022 | 0.033 | 0.004 | 0.024 | 0.037 | 0.044                    | 0.051                        |
| 325      | 417921 | 3722043 | 0.3753     | 0.027 | 0.105 | 0.057 | 0.019 | 0.028 | 0.003 | 0.021 | 0.032 | 0.038                    | 0.045                        |
| 326      | 417971 | 3722043 | 0.3660     | 0.026 | 0.102 | 0.056 | 0.019 | 0.028 | 0.003 | 0.020 | 0.031 | 0.037                    | 0.044                        |
| 327      | 418021 | 3722043 | 0.3314     | 0.024 | 0.092 | 0.051 | 0.017 | 0.025 | 0.003 | 0.018 | 0.028 | 0.034                    | 0.039                        |
| 328      | 418071 | 3722043 | 0.3313     | 0.024 | 0.092 | 0.051 | 0.017 | 0.025 | 0.003 | 0.018 | 0.028 | 0.034                    | 0.039                        |
| 329      | 418121 | 3722043 | 0.3591     | 0.025 | 0.100 | 0.055 | 0.019 | 0.027 | 0.003 | 0.020 | 0.031 | 0.037                    | 0.043                        |
| 330      | 418171 | 3722043 | 0.3746     | 0.027 | 0.104 | 0.057 | 0.019 | 0.028 | 0.003 | 0.021 | 0.032 | 0.038                    | 0.045                        |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Receptor</i> | <i>Risk</i> |
|-----------------|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------------|
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Max</i>      | 174         |
|                 |        |         |            |       |       |       |       |       |       |       |       | <i>Min</i>      | 6           |
| <i>Receptor</i> |        |         |            |       |       |       |       |       |       |       |       |                 |             |
| #               | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C    | 4               | 5           |
| 331             | 418221 | 3722043 | 0.4063     | 0.029 | 0.113 | 0.062 | 0.021 | 0.031 | 0.004 | 0.022 | 0.035 | 0.041           | 0.048       |
| 332             | 418271 | 3722043 | 0.4564     | 0.032 | 0.127 | 0.070 | 0.024 | 0.035 | 0.004 | 0.025 | 0.039 | 0.046           | 0.054       |
| 333             | 418321 | 3722043 | 0.5180     | 0.037 | 0.144 | 0.079 | 0.027 | 0.039 | 0.005 | 0.029 | 0.044 | 0.053           | 0.062       |
| 334             | 418371 | 3722043 | 0.6106     | 0.043 | 0.170 | 0.093 | 0.032 | 0.046 | 0.006 | 0.034 | 0.052 | 0.062           | 0.073       |
| 335             | 418421 | 3722043 | 0.7194     | 0.051 | 0.201 | 0.110 | 0.037 | 0.055 | 0.007 | 0.040 | 0.061 | 0.073           | 0.086       |
| 336             | 418471 | 3722043 | 0.8282     | 0.059 | 0.231 | 0.127 | 0.043 | 0.063 | 0.008 | 0.046 | 0.070 | 0.084           | 0.099       |
| 337             | 418521 | 3722043 | 0.9153     | 0.065 | 0.255 | 0.140 | 0.047 | 0.069 | 0.008 | 0.051 | 0.078 | 0.093           | 0.109       |
| 338             | 418571 | 3722043 | 0.9734     | 0.069 | 0.271 | 0.149 | 0.050 | 0.074 | 0.009 | 0.054 | 0.083 | 0.099           | 0.116       |
| 339             | 418621 | 3722043 | 0.9898     | 0.070 | 0.276 | 0.151 | 0.051 | 0.075 | 0.009 | 0.055 | 0.084 | 0.101           | 0.118       |
| 340             | 418671 | 3722043 | 0.9677     | 0.069 | 0.270 | 0.148 | 0.050 | 0.073 | 0.009 | 0.053 | 0.082 | 0.098           | 0.115       |
| 341             | 418721 | 3722043 | 0.9206     | 0.065 | 0.257 | 0.141 | 0.048 | 0.070 | 0.008 | 0.051 | 0.078 | 0.094           | 0.109       |
| 342             | 418771 | 3722043 | 0.8265     | 0.059 | 0.230 | 0.126 | 0.043 | 0.063 | 0.008 | 0.046 | 0.070 | 0.084           | 0.098       |
| 343             | 418821 | 3722043 | 0.7610     | 0.054 | 0.212 | 0.116 | 0.039 | 0.058 | 0.007 | 0.042 | 0.065 | 0.077           | 0.091       |
| 344             | 418871 | 3722043 | 0.6492     | 0.046 | 0.181 | 0.099 | 0.034 | 0.049 | 0.006 | 0.036 | 0.055 | 0.066           | 0.077       |
| 345             | 418921 | 3722043 | 0.5876     | 0.042 | 0.164 | 0.090 | 0.030 | 0.045 | 0.005 | 0.032 | 0.050 | 0.060           | 0.070       |
| 346             | 417871 | 3722093 | 0.3287     | 0.023 | 0.092 | 0.050 | 0.017 | 0.025 | 0.003 | 0.018 | 0.028 | 0.033           | 0.039       |
| 347             | 417921 | 3722093 | 0.3156     | 0.022 | 0.088 | 0.048 | 0.016 | 0.024 | 0.003 | 0.017 | 0.027 | 0.032           | 0.038       |
| 348             | 417971 | 3722093 | 0.3024     | 0.021 | 0.084 | 0.046 | 0.016 | 0.023 | 0.003 | 0.017 | 0.026 | 0.031           | 0.036       |
| 349             | 418021 | 3722093 | 0.2869     | 0.020 | 0.080 | 0.044 | 0.015 | 0.022 | 0.003 | 0.016 | 0.024 | 0.029           | 0.034       |
| 350             | 418071 | 3722093 | 0.2896     | 0.021 | 0.081 | 0.044 | 0.015 | 0.022 | 0.003 | 0.016 | 0.025 | 0.029           | 0.034       |
| 351             | 418121 | 3722093 | 0.3086     | 0.022 | 0.086 | 0.047 | 0.016 | 0.023 | 0.003 | 0.017 | 0.026 | 0.031           | 0.037       |
| 352             | 418171 | 3722093 | 0.3279     | 0.023 | 0.091 | 0.050 | 0.017 | 0.025 | 0.003 | 0.018 | 0.028 | 0.033           | 0.039       |
| 353             | 418221 | 3722093 | 0.3474     | 0.025 | 0.097 | 0.053 | 0.018 | 0.026 | 0.003 | 0.019 | 0.030 | 0.035           | 0.041       |
| 354             | 418271 | 3722093 | 0.3812     | 0.027 | 0.106 | 0.058 | 0.020 | 0.029 | 0.003 | 0.021 | 0.032 | 0.039           | 0.045       |
| 355             | 418321 | 3722093 | 0.4179     | 0.030 | 0.117 | 0.064 | 0.022 | 0.032 | 0.004 | 0.023 | 0.036 | 0.043           | 0.050       |
| 356             | 418371 | 3722093 | 0.4985     | 0.035 | 0.139 | 0.076 | 0.026 | 0.038 | 0.005 | 0.028 | 0.042 | 0.051           | 0.059       |
| 357             | 418421 | 3722093 | 0.5812     | 0.041 | 0.162 | 0.089 | 0.030 | 0.044 | 0.005 | 0.032 | 0.049 | 0.059           | 0.069       |
| 358             | 418471 | 3722093 | 0.6707     | 0.048 | 0.187 | 0.103 | 0.035 | 0.051 | 0.006 | 0.037 | 0.057 | 0.068           | 0.080       |
| 359             | 418521 | 3722093 | 0.7493     | 0.053 | 0.209 | 0.115 | 0.039 | 0.057 | 0.007 | 0.041 | 0.064 | 0.076           | 0.089       |
| 360             | 418571 | 3722093 | 0.8090     | 0.057 | 0.226 | 0.124 | 0.042 | 0.061 | 0.007 | 0.045 | 0.069 | 0.082           | 0.096       |

## Big Canyon Phase 2

### Construction Cancer Risk Summary - Birth to 2 years

| Receptor |        |         |            |       |       |       |       |       |       |       |       | <i>Receptor</i>          | <i>Risk</i>                  |
|----------|--------|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|------------------------------|
|          |        |         |            |       |       |       |       |       |       |       |       | <i>Max</i><br><i>Min</i> | 174<br>6<br>9.6911<br>0.1086 |
| #        | X      | Y       | Total Risk | 1A    | 1B    | 2A    | 2B    | 2C    | 3A    | 3B    | 3C    | 4                        | 5                            |
| 361      | 418621 | 3722093 | 0.8379     | 0.059 | 0.234 | 0.128 | 0.043 | 0.063 | 0.008 | 0.046 | 0.071 | 0.085                    | 0.100                        |
| 362      | 418671 | 3722093 | 0.8422     | 0.060 | 0.235 | 0.129 | 0.043 | 0.064 | 0.008 | 0.046 | 0.072 | 0.086                    | 0.100                        |
| 363      | 418721 | 3722093 | 0.8154     | 0.058 | 0.227 | 0.125 | 0.042 | 0.062 | 0.007 | 0.045 | 0.069 | 0.083                    | 0.097                        |
| 364      | 418771 | 3722093 | 0.7375     | 0.052 | 0.206 | 0.113 | 0.038 | 0.056 | 0.007 | 0.041 | 0.063 | 0.075                    | 0.088                        |
| 365      | 418821 | 3722093 | 0.6908     | 0.049 | 0.193 | 0.106 | 0.036 | 0.052 | 0.006 | 0.038 | 0.059 | 0.070                    | 0.082                        |
| 366      | 418871 | 3722093 | 0.6010     | 0.043 | 0.168 | 0.092 | 0.031 | 0.046 | 0.005 | 0.033 | 0.051 | 0.061                    | 0.071                        |
| 367      | 418921 | 3722093 | 0.5503     | 0.039 | 0.153 | 0.084 | 0.028 | 0.042 | 0.005 | 0.030 | 0.047 | 0.056                    | 0.065                        |
| 368      | 417821 | 3722143 | 0.2850     | 0.020 | 0.079 | 0.044 | 0.015 | 0.022 | 0.003 | 0.016 | 0.024 | 0.029                    | 0.034                        |
| 369      | 417871 | 3722143 | 0.2796     | 0.020 | 0.078 | 0.043 | 0.014 | 0.021 | 0.003 | 0.015 | 0.024 | 0.028                    | 0.033                        |
| 370      | 417921 | 3722143 | 0.2643     | 0.019 | 0.074 | 0.040 | 0.014 | 0.020 | 0.002 | 0.015 | 0.022 | 0.027                    | 0.031                        |
| 371      | 417971 | 3722143 | 0.2467     | 0.018 | 0.069 | 0.038 | 0.013 | 0.019 | 0.002 | 0.014 | 0.021 | 0.025                    | 0.029                        |
| 372      | 418021 | 3722143 | 0.2567     | 0.018 | 0.072 | 0.039 | 0.013 | 0.019 | 0.002 | 0.014 | 0.022 | 0.026                    | 0.031                        |
| 373      | 418071 | 3722143 | 0.2504     | 0.018 | 0.070 | 0.038 | 0.013 | 0.019 | 0.002 | 0.014 | 0.021 | 0.025                    | 0.030                        |
| 374      | 418121 | 3722143 | 0.2731     | 0.019 | 0.076 | 0.042 | 0.014 | 0.021 | 0.002 | 0.015 | 0.023 | 0.028                    | 0.032                        |
| 375      | 418171 | 3722143 | 0.2839     | 0.020 | 0.079 | 0.043 | 0.015 | 0.022 | 0.003 | 0.016 | 0.024 | 0.029                    | 0.034                        |
| 376      | 418221 | 3722143 | 0.3107     | 0.022 | 0.087 | 0.047 | 0.016 | 0.024 | 0.003 | 0.017 | 0.026 | 0.032                    | 0.037                        |
| 377      | 418271 | 3722143 | 0.3360     | 0.024 | 0.094 | 0.051 | 0.017 | 0.025 | 0.003 | 0.019 | 0.029 | 0.034                    | 0.040                        |
| 378      | 418321 | 3722143 | 0.3578     | 0.025 | 0.100 | 0.055 | 0.018 | 0.027 | 0.003 | 0.020 | 0.030 | 0.036                    | 0.043                        |
| 379      | 418371 | 3722143 | 0.4133     | 0.029 | 0.115 | 0.063 | 0.021 | 0.031 | 0.004 | 0.023 | 0.035 | 0.042                    | 0.049                        |
| 380      | 418421 | 3722143 | 0.4576     | 0.032 | 0.128 | 0.070 | 0.024 | 0.035 | 0.004 | 0.025 | 0.039 | 0.047                    | 0.054                        |
| 381      | 418471 | 3722143 | 0.5506     | 0.039 | 0.154 | 0.084 | 0.028 | 0.042 | 0.005 | 0.030 | 0.047 | 0.056                    | 0.065                        |
| 382      | 418521 | 3722143 | 0.6204     | 0.044 | 0.173 | 0.095 | 0.032 | 0.047 | 0.006 | 0.034 | 0.053 | 0.063                    | 0.074                        |
| 383      | 418571 | 3722143 | 0.6768     | 0.048 | 0.189 | 0.103 | 0.035 | 0.051 | 0.006 | 0.037 | 0.058 | 0.069                    | 0.081                        |
| 384      | 418621 | 3722143 | 0.7133     | 0.051 | 0.199 | 0.109 | 0.037 | 0.054 | 0.006 | 0.039 | 0.061 | 0.073                    | 0.085                        |
| 385      | 418671 | 3722143 | 0.7251     | 0.051 | 0.202 | 0.111 | 0.037 | 0.055 | 0.007 | 0.040 | 0.062 | 0.074                    | 0.086                        |
| 386      | 418721 | 3722143 | 0.7126     | 0.051 | 0.199 | 0.109 | 0.037 | 0.054 | 0.006 | 0.039 | 0.061 | 0.073                    | 0.085                        |
| 387      | 418771 | 3722143 | 0.6578     | 0.047 | 0.183 | 0.101 | 0.034 | 0.050 | 0.006 | 0.036 | 0.056 | 0.067                    | 0.078                        |
| 388      | 418821 | 3722143 | 0.6239     | 0.044 | 0.174 | 0.095 | 0.032 | 0.047 | 0.006 | 0.034 | 0.053 | 0.063                    | 0.074                        |
| 389      | 418871 | 3722143 | 0.5556     | 0.039 | 0.155 | 0.085 | 0.029 | 0.042 | 0.005 | 0.031 | 0.047 | 0.057                    | 0.066                        |
| 390      | 418921 | 3722143 | 0.5130     | 0.036 | 0.143 | 0.078 | 0.026 | 0.039 | 0.005 | 0.028 | 0.044 | 0.052                    | 0.061                        |

# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|                 |    |              |           |           |           |           |           |           |           |           |          | <i>Receptor</i> |
|-----------------|----|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------------|
|                 |    |              |           |           |           |           |           |           |           |           |          | 174             |
|                 |    |              |           |           |           |           |           |           |           |           |          | 0.1721          |
|                 |    |              |           |           |           |           |           |           |           |           |          | 6               |
|                 |    |              |           |           |           |           |           |           |           |           |          | 0.0019          |
| <b>Receptor</b> |    | <b>Total</b> |           |           |           |           |           |           |           |           |          |                 |
| <b>#</b>        |    | <b>Risk</b>  | <b>1A</b> | <b>1B</b> | <b>2A</b> | <b>2B</b> | <b>2C</b> | <b>3A</b> | <b>3B</b> | <b>3C</b> | <b>4</b> | <b>5</b>        |
| 1               | 1  | 0.0029       | 0.0004    | 0.0005    | 2.9E-04   | 2.0E-04   | 2.9E-04   | 5.2E-05   | 3.2E-04   | 1.9E-04   | 3.9E-04  | 1.9E-04         |
| 2               | 2  | 0.0027       | 0.0004    | 0.0005    | 2.7E-04   | 1.9E-04   | 2.7E-04   | 4.9E-05   | 3.0E-04   | 1.8E-04   | 3.6E-04  | 1.8E-04         |
| 3               | 3  | 0.0025       | 0.0003    | 0.0005    | 2.5E-04   | 1.7E-04   | 2.5E-04   | 4.5E-05   | 2.7E-04   | 1.7E-04   | 3.3E-04  | 1.7E-04         |
| 4               | 4  | 0.0023       | 0.0003    | 0.0004    | 2.3E-04   | 1.6E-04   | 2.3E-04   | 4.1E-05   | 2.5E-04   | 1.5E-04   | 3.1E-04  | 1.5E-04         |
| 5               | 5  | 0.0021       | 0.0003    | 0.0004    | 2.1E-04   | 1.4E-04   | 2.1E-04   | 3.8E-05   | 2.3E-04   | 1.4E-04   | 2.8E-04  | 1.4E-04         |
| 6               | 6  | 0.0019       | 0.0003    | 0.0004    | 2.0E-04   | 1.3E-04   | 1.9E-04   | 3.5E-05   | 2.1E-04   | 1.3E-04   | 2.6E-04  | 1.3E-04         |
| 7               | 7  | 0.0036       | 0.0005    | 0.0007    | 3.7E-04   | 2.5E-04   | 3.7E-04   | 6.6E-05   | 4.0E-04   | 2.5E-04   | 4.9E-04  | 2.5E-04         |
| 8               | 8  | 0.0033       | 0.0005    | 0.0006    | 3.4E-04   | 2.3E-04   | 3.4E-04   | 6.1E-05   | 3.7E-04   | 2.3E-04   | 4.5E-04  | 2.3E-04         |
| 9               | 9  | 0.0029       | 0.0004    | 0.0005    | 3.0E-04   | 2.0E-04   | 3.0E-04   | 5.3E-05   | 3.2E-04   | 2.0E-04   | 4.0E-04  | 2.0E-04         |
| 10              | 10 | 0.0027       | 0.0004    | 0.0005    | 2.8E-04   | 1.9E-04   | 2.8E-04   | 5.0E-05   | 3.0E-04   | 1.9E-04   | 3.7E-04  | 1.9E-04         |
| 11              | 11 | 0.0024       | 0.0003    | 0.0004    | 2.4E-04   | 1.6E-04   | 2.4E-04   | 4.4E-05   | 2.6E-04   | 1.6E-04   | 3.2E-04  | 1.6E-04         |
| 12              | 12 | 0.0022       | 0.0003    | 0.0004    | 2.3E-04   | 1.5E-04   | 2.3E-04   | 4.1E-05   | 2.5E-04   | 1.5E-04   | 3.0E-04  | 1.5E-04         |
| 13              | 13 | 0.0021       | 0.0003    | 0.0004    | 2.2E-04   | 1.5E-04   | 2.1E-04   | 3.8E-05   | 2.3E-04   | 1.4E-04   | 2.9E-04  | 1.4E-04         |
| 14              | 14 | 0.0040       | 0.0006    | 0.0007    | 4.1E-04   | 2.8E-04   | 4.0E-04   | 7.3E-05   | 4.4E-04   | 2.7E-04   | 5.4E-04  | 2.7E-04         |
| 15              | 15 | 0.0037       | 0.0005    | 0.0007    | 3.8E-04   | 2.6E-04   | 3.8E-04   | 6.8E-05   | 4.1E-04   | 2.5E-04   | 5.1E-04  | 2.5E-04         |
| 16              | 16 | 0.0033       | 0.0005    | 0.0006    | 3.4E-04   | 2.3E-04   | 3.4E-04   | 6.1E-05   | 3.7E-04   | 2.3E-04   | 4.5E-04  | 2.3E-04         |
| 17              | 17 | 0.0029       | 0.0004    | 0.0005    | 3.0E-04   | 2.0E-04   | 3.0E-04   | 5.4E-05   | 3.3E-04   | 2.0E-04   | 4.0E-04  | 2.0E-04         |
| 18              | 18 | 0.0027       | 0.0004    | 0.0005    | 2.7E-04   | 1.8E-04   | 2.7E-04   | 4.9E-05   | 3.0E-04   | 1.8E-04   | 3.6E-04  | 1.8E-04         |
| 19              | 19 | 0.0024       | 0.0003    | 0.0005    | 2.5E-04   | 1.7E-04   | 2.5E-04   | 4.4E-05   | 2.7E-04   | 1.7E-04   | 3.3E-04  | 1.7E-04         |
| 20              | 20 | 0.0023       | 0.0003    | 0.0004    | 2.3E-04   | 1.6E-04   | 2.3E-04   | 4.1E-05   | 2.5E-04   | 1.5E-04   | 3.1E-04  | 1.5E-04         |
| 21              | 21 | 0.0088       | 0.0013    | 0.0016    | 9.0E-04   | 6.1E-04   | 8.9E-04   | 1.6E-04   | 9.7E-04   | 6.0E-04   | 1.2E-03  | 6.0E-04         |
| 22              | 22 | 0.0101       | 0.0014    | 0.0019    | 1.0E-03   | 6.9E-04   | 1.0E-03   | 1.8E-04   | 1.1E-03   | 6.9E-04   | 1.4E-03  | 6.9E-04         |
| 23              | 23 | 0.0108       | 0.0015    | 0.0020    | 1.1E-03   | 7.5E-04   | 1.1E-03   | 2.0E-04   | 1.2E-03   | 7.4E-04   | 1.5E-03  | 7.4E-04         |
| 24              | 24 | 0.0111       | 0.0016    | 0.0021    | 1.1E-03   | 7.6E-04   | 1.1E-03   | 2.0E-04   | 1.2E-03   | 7.5E-04   | 1.5E-03  | 7.5E-04         |
| 25              | 25 | 0.0123       | 0.0017    | 0.0023    | 1.3E-03   | 8.5E-04   | 1.2E-03   | 2.2E-04   | 1.4E-03   | 8.3E-04   | 1.7E-03  | 8.3E-04         |
| 26              | 26 | 0.0120       | 0.0017    | 0.0022    | 1.2E-03   | 8.2E-04   | 1.2E-03   | 2.2E-04   | 1.3E-03   | 8.1E-04   | 1.6E-03  | 8.1E-04         |
| 27              | 27 | 0.0110       | 0.0016    | 0.0020    | 1.1E-03   | 7.6E-04   | 1.1E-03   | 2.0E-04   | 1.2E-03   | 7.5E-04   | 1.5E-03  | 7.5E-04         |
| 28              | 28 | 0.0098       | 0.0014    | 0.0018    | 1.0E-03   | 6.7E-04   | 9.9E-04   | 1.8E-04   | 1.1E-03   | 6.7E-04   | 1.3E-03  | 6.7E-04         |
| 29              | 29 | 0.0083       | 0.0012    | 0.0015    | 8.5E-04   | 5.7E-04   | 8.4E-04   | 1.5E-04   | 9.2E-04   | 5.6E-04   | 1.1E-03  | 5.6E-04         |
| 30              | 30 | 0.0054       | 0.0008    | 0.0010    | 5.5E-04   | 3.7E-04   | 5.5E-04   | 9.9E-05   | 6.0E-04   | 3.7E-04   | 7.4E-04  | 3.7E-04         |

# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|                 |    |              |           |           |           |           |           |           |           |           |          | <i>Receptor</i> | <i>Max HI</i> |
|-----------------|----|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------------|---------------|
|                 |    |              |           |           |           |           |           |           |           |           |          | 174             | 0.1721        |
|                 |    |              |           |           |           |           |           |           |           |           |          | 6               | 0.0019        |
| <b>Receptor</b> |    | <b>Total</b> |           |           |           |           |           |           |           |           |          |                 |               |
| <b>#</b>        |    | <b>Risk</b>  | <b>1A</b> | <b>1B</b> | <b>2A</b> | <b>2B</b> | <b>2C</b> | <b>3A</b> | <b>3B</b> | <b>3C</b> | <b>4</b> | <b>5</b>        |               |
| 31              | 31 | 0.0050       | 0.0007    | 0.0009    | 5.1E-04   | 3.5E-04   | 5.1E-04   | 9.1E-05   | 5.5E-04   | 3.4E-04   | 6.8E-04  | 3.4E-04         |               |
| 32              | 32 | 0.0041       | 0.0006    | 0.0008    | 4.2E-04   | 2.8E-04   | 4.1E-04   | 7.5E-05   | 4.5E-04   | 2.8E-04   | 5.6E-04  | 2.8E-04         |               |
| 33              | 33 | 0.0039       | 0.0006    | 0.0007    | 4.0E-04   | 2.7E-04   | 3.9E-04   | 7.1E-05   | 4.3E-04   | 2.6E-04   | 5.3E-04  | 2.6E-04         |               |
| 34              | 34 | 0.0032       | 0.0005    | 0.0006    | 3.3E-04   | 2.2E-04   | 3.3E-04   | 5.9E-05   | 3.6E-04   | 2.2E-04   | 4.4E-04  | 2.2E-04         |               |
| 35              | 35 | 0.0030       | 0.0004    | 0.0006    | 3.0E-04   | 2.1E-04   | 3.0E-04   | 5.4E-05   | 3.3E-04   | 2.0E-04   | 4.1E-04  | 2.0E-04         |               |
| 36              | 36 | 0.0027       | 0.0004    | 0.0005    | 2.7E-04   | 1.8E-04   | 2.7E-04   | 4.9E-05   | 2.9E-04   | 1.8E-04   | 3.6E-04  | 1.8E-04         |               |
| 37              | 37 | 0.0025       | 0.0004    | 0.0005    | 2.6E-04   | 1.7E-04   | 2.6E-04   | 4.6E-05   | 2.8E-04   | 1.7E-04   | 3.4E-04  | 1.7E-04         |               |
| 38              | 38 | 0.0119       | 0.0017    | 0.0022    | 1.2E-03   | 8.2E-04   | 1.2E-03   | 2.2E-04   | 1.3E-03   | 8.1E-04   | 1.6E-03  | 8.1E-04         |               |
| 39              | 39 | 0.0108       | 0.0015    | 0.0020    | 1.1E-03   | 7.4E-04   | 1.1E-03   | 2.0E-04   | 1.2E-03   | 7.3E-04   | 1.5E-03  | 7.3E-04         |               |
| 40              | 40 | 0.0115       | 0.0016    | 0.0021    | 1.2E-03   | 7.9E-04   | 1.2E-03   | 2.1E-04   | 1.3E-03   | 7.8E-04   | 1.6E-03  | 7.8E-04         |               |
| 41              | 41 | 0.0118       | 0.0017    | 0.0022    | 1.2E-03   | 8.1E-04   | 1.2E-03   | 2.1E-04   | 1.3E-03   | 8.0E-04   | 1.6E-03  | 8.0E-04         |               |
| 42              | 42 | 0.0124       | 0.0018    | 0.0023    | 1.3E-03   | 8.5E-04   | 1.3E-03   | 2.3E-04   | 1.4E-03   | 8.4E-04   | 1.7E-03  | 8.4E-04         |               |
| 43              | 43 | 0.0128       | 0.0018    | 0.0024    | 1.3E-03   | 8.8E-04   | 1.3E-03   | 2.3E-04   | 1.4E-03   | 8.7E-04   | 1.7E-03  | 8.7E-04         |               |
| 44              | 44 | 0.0122       | 0.0017    | 0.0023    | 1.2E-03   | 8.4E-04   | 1.2E-03   | 2.2E-04   | 1.3E-03   | 8.3E-04   | 1.7E-03  | 8.3E-04         |               |
| 45              | 45 | 0.0108       | 0.0015    | 0.0020    | 1.1E-03   | 7.4E-04   | 1.1E-03   | 2.0E-04   | 1.2E-03   | 7.3E-04   | 1.5E-03  | 7.3E-04         |               |
| 46              | 46 | 0.0092       | 0.0013    | 0.0017    | 9.4E-04   | 6.4E-04   | 9.3E-04   | 1.7E-04   | 1.0E-03   | 6.3E-04   | 1.3E-03  | 6.3E-04         |               |
| 47              | 47 | 0.0084       | 0.0012    | 0.0016    | 8.6E-04   | 5.8E-04   | 8.5E-04   | 1.5E-04   | 9.3E-04   | 5.7E-04   | 1.1E-03  | 5.7E-04         |               |
| 48              | 48 | 0.0066       | 0.0009    | 0.0012    | 6.8E-04   | 4.6E-04   | 6.7E-04   | 1.2E-04   | 7.3E-04   | 4.5E-04   | 9.0E-04  | 4.5E-04         |               |
| 49              | 49 | 0.0057       | 0.0008    | 0.0011    | 5.8E-04   | 3.9E-04   | 5.8E-04   | 1.0E-04   | 6.3E-04   | 3.9E-04   | 7.8E-04  | 3.9E-04         |               |
| 50              | 50 | 0.0052       | 0.0007    | 0.0010    | 5.3E-04   | 3.6E-04   | 5.2E-04   | 9.4E-05   | 5.7E-04   | 3.5E-04   | 7.0E-04  | 3.5E-04         |               |
| 51              | 51 | 0.0047       | 0.0007    | 0.0009    | 4.7E-04   | 3.2E-04   | 4.7E-04   | 8.5E-05   | 5.1E-04   | 3.2E-04   | 6.3E-04  | 3.2E-04         |               |
| 52              | 52 | 0.0037       | 0.0005    | 0.0007    | 3.8E-04   | 2.6E-04   | 3.7E-04   | 6.7E-05   | 4.1E-04   | 2.5E-04   | 5.0E-04  | 2.5E-04         |               |
| 53              | 53 | 0.0033       | 0.0005    | 0.0006    | 3.3E-04   | 2.3E-04   | 3.3E-04   | 6.0E-05   | 3.6E-04   | 2.2E-04   | 4.4E-04  | 2.2E-04         |               |
| 54              | 54 | 0.0030       | 0.0004    | 0.0006    | 3.1E-04   | 2.1E-04   | 3.0E-04   | 5.5E-05   | 3.3E-04   | 2.0E-04   | 4.1E-04  | 2.0E-04         |               |
| 55              | 55 | 0.0031       | 0.0004    | 0.0006    | 3.1E-04   | 2.1E-04   | 3.1E-04   | 5.6E-05   | 3.4E-04   | 2.1E-04   | 4.2E-04  | 2.1E-04         |               |
| 56              | 56 | 0.0112       | 0.0016    | 0.0021    | 1.1E-03   | 7.7E-04   | 1.1E-03   | 2.0E-04   | 1.2E-03   | 7.6E-04   | 1.5E-03  | 7.6E-04         |               |
| 57              | 57 | 0.0114       | 0.0016    | 0.0021    | 1.2E-03   | 7.9E-04   | 1.2E-03   | 2.1E-04   | 1.3E-03   | 7.8E-04   | 1.6E-03  | 7.8E-04         |               |
| 58              | 58 | 0.0118       | 0.0017    | 0.0022    | 1.2E-03   | 8.1E-04   | 1.2E-03   | 2.2E-04   | 1.3E-03   | 8.0E-04   | 1.6E-03  | 8.0E-04         |               |
| 59              | 59 | 0.0137       | 0.0020    | 0.0026    | 1.4E-03   | 9.5E-04   | 1.4E-03   | 2.5E-04   | 1.5E-03   | 9.3E-04   | 1.9E-03  | 9.3E-04         |               |
| 60              | 60 | 0.0139       | 0.0020    | 0.0026    | 1.4E-03   | 9.6E-04   | 1.4E-03   | 2.5E-04   | 1.5E-03   | 9.5E-04   | 1.9E-03  | 9.5E-04         |               |



# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|          |    |        |        |        |         |         |         |         |         |         |         | <i>Receptor</i> | <i>Max HI</i> |
|----------|----|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------------|
|          |    |        |        |        |         |         |         |         |         |         |         | 174             | 0.1721        |
|          |    |        |        |        |         |         |         |         |         |         |         | 6               | 0.0019        |
| Receptor |    | Total  |        |        |         |         |         |         |         |         |         |                 |               |
| #        |    | Risk   | 1A     | 1B     | 2A      | 2B      | 2C      | 3A      | 3B      | 3C      | 4       | 5               |               |
| 61       | 61 | 0.0148 | 0.0021 | 0.0028 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.7E-04 | 1.6E-03 | 1.0E-03 | 2.0E-03 | 1.0E-03         |               |
| 62       | 62 | 0.0145 | 0.0021 | 0.0027 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.6E-04 | 1.6E-03 | 9.9E-04 | 2.0E-03 | 9.9E-04         |               |
| 63       | 63 | 0.0126 | 0.0018 | 0.0023 | 1.3E-03 | 8.7E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.6E-04 | 1.7E-03 | 8.6E-04         |               |
| 64       | 64 | 0.0114 | 0.0016 | 0.0021 | 1.2E-03 | 7.8E-04 | 1.1E-03 | 2.1E-04 | 1.3E-03 | 7.7E-04 | 1.5E-03 | 7.7E-04         |               |
| 65       | 65 | 0.0093 | 0.0013 | 0.0017 | 9.5E-04 | 6.4E-04 | 9.4E-04 | 1.7E-04 | 1.0E-03 | 6.3E-04 | 1.3E-03 | 6.3E-04         |               |
| 66       | 66 | 0.0094 | 0.0013 | 0.0017 | 9.6E-04 | 6.5E-04 | 9.5E-04 | 1.7E-04 | 1.0E-03 | 6.4E-04 | 1.3E-03 | 6.4E-04         |               |
| 67       | 67 | 0.0066 | 0.0009 | 0.0012 | 6.7E-04 | 4.6E-04 | 6.7E-04 | 1.2E-04 | 7.3E-04 | 4.5E-04 | 9.0E-04 | 4.5E-04         |               |
| 68       | 68 | 0.0059 | 0.0008 | 0.0011 | 6.0E-04 | 4.1E-04 | 6.0E-04 | 1.1E-04 | 6.5E-04 | 4.0E-04 | 8.0E-04 | 4.0E-04         |               |
| 69       | 69 | 0.0054 | 0.0008 | 0.0010 | 5.5E-04 | 3.7E-04 | 5.5E-04 | 9.9E-05 | 6.0E-04 | 3.7E-04 | 7.4E-04 | 3.7E-04         |               |
| 70       | 70 | 0.0053 | 0.0007 | 0.0010 | 5.4E-04 | 3.6E-04 | 5.3E-04 | 9.6E-05 | 5.8E-04 | 3.6E-04 | 7.1E-04 | 3.6E-04         |               |
| 71       | 71 | 0.0041 | 0.0006 | 0.0008 | 4.2E-04 | 2.8E-04 | 4.2E-04 | 7.5E-05 | 4.5E-04 | 2.8E-04 | 5.6E-04 | 2.8E-04         |               |
| 72       | 72 | 0.0038 | 0.0005 | 0.0007 | 3.9E-04 | 2.6E-04 | 3.9E-04 | 7.0E-05 | 4.2E-04 | 2.6E-04 | 5.2E-04 | 2.6E-04         |               |
| 73       | 73 | 0.0044 | 0.0006 | 0.0008 | 4.5E-04 | 3.0E-04 | 4.5E-04 | 8.1E-05 | 4.9E-04 | 3.0E-04 | 6.0E-04 | 3.0E-04         |               |
| 74       | 74 | 0.0126 | 0.0018 | 0.0023 | 1.3E-03 | 8.7E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.6E-04 | 1.7E-03 | 8.6E-04         |               |
| 75       | 75 | 0.0131 | 0.0019 | 0.0024 | 1.3E-03 | 9.0E-04 | 1.3E-03 | 2.4E-04 | 1.4E-03 | 8.9E-04 | 1.8E-03 | 8.9E-04         |               |
| 76       | 76 | 0.0132 | 0.0019 | 0.0024 | 1.3E-03 | 9.1E-04 | 1.3E-03 | 2.4E-04 | 1.5E-03 | 8.9E-04 | 1.8E-03 | 8.9E-04         |               |
| 77       | 77 | 0.0148 | 0.0021 | 0.0028 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.7E-04 | 1.6E-03 | 1.0E-03 | 2.0E-03 | 1.0E-03         |               |
| 78       | 78 | 0.0170 | 0.0024 | 0.0032 | 1.7E-03 | 1.2E-03 | 1.7E-03 | 3.1E-04 | 1.9E-03 | 1.2E-03 | 2.3E-03 | 1.2E-03         |               |
| 79       | 79 | 0.0179 | 0.0025 | 0.0033 | 1.8E-03 | 1.2E-03 | 1.8E-03 | 3.3E-04 | 2.0E-03 | 1.2E-03 | 2.4E-03 | 1.2E-03         |               |
| 80       | 80 | 0.0182 | 0.0026 | 0.0034 | 1.9E-03 | 1.3E-03 | 1.8E-03 | 3.3E-04 | 2.0E-03 | 1.2E-03 | 2.5E-03 | 1.2E-03         |               |
| 81       | 81 | 0.0166 | 0.0024 | 0.0031 | 1.7E-03 | 1.1E-03 | 1.7E-03 | 3.0E-04 | 1.8E-03 | 1.1E-03 | 2.3E-03 | 1.1E-03         |               |
| 82       | 82 | 0.0143 | 0.0020 | 0.0027 | 1.5E-03 | 9.8E-04 | 1.4E-03 | 2.6E-04 | 1.6E-03 | 9.7E-04 | 1.9E-03 | 9.7E-04         |               |
| 83       | 83 | 0.0120 | 0.0017 | 0.0022 | 1.2E-03 | 8.3E-04 | 1.2E-03 | 2.2E-04 | 1.3E-03 | 8.2E-04 | 1.6E-03 | 8.2E-04         |               |
| 84       | 84 | 0.0137 | 0.0019 | 0.0025 | 1.4E-03 | 9.4E-04 | 1.4E-03 | 2.5E-04 | 1.5E-03 | 9.3E-04 | 1.9E-03 | 9.3E-04         |               |
| 85       | 85 | 0.0070 | 0.0010 | 0.0013 | 7.1E-04 | 4.8E-04 | 7.0E-04 | 1.3E-04 | 7.7E-04 | 4.7E-04 | 9.4E-04 | 4.7E-04         |               |
| 86       | 86 | 0.0063 | 0.0009 | 0.0012 | 6.5E-04 | 4.4E-04 | 6.4E-04 | 1.2E-04 | 7.0E-04 | 4.3E-04 | 8.6E-04 | 4.3E-04         |               |
| 87       | 87 | 0.0061 | 0.0009 | 0.0011 | 6.2E-04 | 4.2E-04 | 6.1E-04 | 1.1E-04 | 6.7E-04 | 4.1E-04 | 8.2E-04 | 4.1E-04         |               |
| 88       | 88 | 0.0058 | 0.0008 | 0.0011 | 5.9E-04 | 4.0E-04 | 5.8E-04 | 1.0E-04 | 6.3E-04 | 3.9E-04 | 7.8E-04 | 3.9E-04         |               |
| 89       | 89 | 0.0054 | 0.0008 | 0.0010 | 5.5E-04 | 3.7E-04 | 5.5E-04 | 9.9E-05 | 6.0E-04 | 3.7E-04 | 7.4E-04 | 3.7E-04         |               |
| 90       | 90 | 0.0052 | 0.0007 | 0.0010 | 5.3E-04 | 3.6E-04 | 5.2E-04 | 9.4E-05 | 5.7E-04 | 3.5E-04 | 7.0E-04 | 3.5E-04         |               |

# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|                 |     |              |           |           |           |           |           |           |           |           |          | <i>Receptor</i> | <i>Max HI</i> |
|-----------------|-----|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------------|---------------|
|                 |     |              |           |           |           |           |           |           |           |           |          | 174             | 0.1721        |
|                 |     |              |           |           |           |           |           |           |           |           |          | 6               | 0.0019        |
| <b>Receptor</b> |     | <b>Total</b> |           |           |           |           |           |           |           |           |          |                 |               |
| <b>#</b>        |     | <b>Risk</b>  | <b>1A</b> | <b>1B</b> | <b>2A</b> | <b>2B</b> | <b>2C</b> | <b>3A</b> | <b>3B</b> | <b>3C</b> | <b>4</b> | <b>5</b>        |               |
| 91              | 91  | 0.0154       | 0.0022    | 0.0029    | 1.6E-03   | 1.1E-03   | 1.6E-03   | 2.8E-04   | 1.7E-03   | 1.0E-03   | 2.1E-03  | 1.0E-03         |               |
| 92              | 92  | 0.0157       | 0.0022    | 0.0029    | 1.6E-03   | 1.1E-03   | 1.6E-03   | 2.9E-04   | 1.7E-03   | 1.1E-03   | 2.1E-03  | 1.1E-03         |               |
| 93              | 93  | 0.0180       | 0.0026    | 0.0033    | 1.8E-03   | 1.2E-03   | 1.8E-03   | 3.3E-04   | 2.0E-03   | 1.2E-03   | 2.4E-03  | 1.2E-03         |               |
| 94              | 94  | 0.0190       | 0.0027    | 0.0035    | 1.9E-03   | 1.3E-03   | 1.9E-03   | 3.5E-04   | 2.1E-03   | 1.3E-03   | 2.6E-03  | 1.3E-03         |               |
| 95              | 95  | 0.0209       | 0.0030    | 0.0039    | 2.1E-03   | 1.4E-03   | 2.1E-03   | 3.8E-04   | 2.3E-03   | 1.4E-03   | 2.8E-03  | 1.4E-03         |               |
| 96              | 96  | 0.0226       | 0.0032    | 0.0042    | 2.3E-03   | 1.6E-03   | 2.3E-03   | 4.1E-04   | 2.5E-03   | 1.5E-03   | 3.1E-03  | 1.5E-03         |               |
| 97              | 97  | 0.0210       | 0.0030    | 0.0039    | 2.1E-03   | 1.4E-03   | 2.1E-03   | 3.8E-04   | 2.3E-03   | 1.4E-03   | 2.8E-03  | 1.4E-03         |               |
| 98              | 98  | 0.0182       | 0.0026    | 0.0034    | 1.9E-03   | 1.3E-03   | 1.8E-03   | 3.3E-04   | 2.0E-03   | 1.2E-03   | 2.5E-03  | 1.2E-03         |               |
| 99              | 99  | 0.0178       | 0.0025    | 0.0033    | 1.8E-03   | 1.2E-03   | 1.8E-03   | 3.2E-04   | 2.0E-03   | 1.2E-03   | 2.4E-03  | 1.2E-03         |               |
| 100             | 100 | 0.0089       | 0.0013    | 0.0016    | 9.0E-04   | 6.1E-04   | 9.0E-04   | 1.6E-04   | 9.8E-04   | 6.0E-04   | 1.2E-03  | 6.0E-04         |               |
| 101             | 101 | 0.0074       | 0.0011    | 0.0014    | 7.5E-04   | 5.1E-04   | 7.5E-04   | 1.3E-04   | 8.2E-04   | 5.0E-04   | 1.0E-03  | 5.0E-04         |               |
| 102             | 102 | 0.0069       | 0.0010    | 0.0013    | 7.1E-04   | 4.8E-04   | 7.0E-04   | 1.3E-04   | 7.7E-04   | 4.7E-04   | 9.4E-04  | 4.7E-04         |               |
| 103             | 103 | 0.0066       | 0.0009    | 0.0012    | 6.7E-04   | 4.5E-04   | 6.7E-04   | 1.2E-04   | 7.3E-04   | 4.5E-04   | 9.0E-04  | 4.5E-04         |               |
| 104             | 104 | 0.0061       | 0.0009    | 0.0011    | 6.3E-04   | 4.2E-04   | 6.2E-04   | 1.1E-04   | 6.8E-04   | 4.2E-04   | 8.3E-04  | 4.2E-04         |               |
| 105             | 105 | 0.0055       | 0.0008    | 0.0010    | 5.7E-04   | 3.8E-04   | 5.6E-04   | 1.0E-04   | 6.1E-04   | 3.8E-04   | 7.5E-04  | 3.8E-04         |               |
| 106             | 106 | 0.0163       | 0.0023    | 0.0030    | 1.7E-03   | 1.1E-03   | 1.6E-03   | 3.0E-04   | 1.8E-03   | 1.1E-03   | 2.2E-03  | 1.1E-03         |               |
| 107             | 107 | 0.0168       | 0.0024    | 0.0031    | 1.7E-03   | 1.2E-03   | 1.7E-03   | 3.1E-04   | 1.9E-03   | 1.1E-03   | 2.3E-03  | 1.1E-03         |               |
| 108             | 108 | 0.0190       | 0.0027    | 0.0035    | 1.9E-03   | 1.3E-03   | 1.9E-03   | 3.5E-04   | 2.1E-03   | 1.3E-03   | 2.6E-03  | 1.3E-03         |               |
| 109             | 109 | 0.0198       | 0.0028    | 0.0037    | 2.0E-03   | 1.4E-03   | 2.0E-03   | 3.6E-04   | 2.2E-03   | 1.3E-03   | 2.7E-03  | 1.3E-03         |               |
| 110             | 110 | 0.0228       | 0.0032    | 0.0042    | 2.3E-03   | 1.6E-03   | 2.3E-03   | 4.1E-04   | 2.5E-03   | 1.5E-03   | 3.1E-03  | 1.5E-03         |               |
| 111             | 111 | 0.0263       | 0.0037    | 0.0049    | 2.7E-03   | 1.8E-03   | 2.7E-03   | 4.8E-04   | 2.9E-03   | 1.8E-03   | 3.6E-03  | 1.8E-03         |               |
| 112             | 112 | 0.0284       | 0.0040    | 0.0053    | 2.9E-03   | 2.0E-03   | 2.9E-03   | 5.2E-04   | 3.1E-03   | 1.9E-03   | 3.9E-03  | 1.9E-03         |               |
| 113             | 113 | 0.0286       | 0.0041    | 0.0053    | 2.9E-03   | 2.0E-03   | 2.9E-03   | 5.2E-04   | 3.2E-03   | 1.9E-03   | 3.9E-03  | 1.9E-03         |               |
| 114             | 114 | 0.0274       | 0.0039    | 0.0051    | 2.8E-03   | 1.9E-03   | 2.8E-03   | 5.0E-04   | 3.0E-03   | 1.9E-03   | 3.7E-03  | 1.9E-03         |               |
| 115             | 115 | 0.0082       | 0.0012    | 0.0015    | 8.4E-04   | 5.7E-04   | 8.3E-04   | 1.5E-04   | 9.1E-04   | 5.6E-04   | 1.1E-03  | 5.6E-04         |               |
| 116             | 116 | 0.0079       | 0.0011    | 0.0015    | 8.1E-04   | 5.5E-04   | 8.0E-04   | 1.4E-04   | 8.8E-04   | 5.4E-04   | 1.1E-03  | 5.4E-04         |               |
| 117             | 117 | 0.0077       | 0.0011    | 0.0014    | 7.9E-04   | 5.3E-04   | 7.8E-04   | 1.4E-04   | 8.5E-04   | 5.2E-04   | 1.0E-03  | 5.2E-04         |               |
| 118             | 118 | 0.0067       | 0.0010    | 0.0013    | 6.9E-04   | 4.6E-04   | 6.8E-04   | 1.2E-04   | 7.4E-04   | 4.6E-04   | 9.2E-04  | 4.6E-04         |               |
| 119             | 119 | 0.0057       | 0.0008    | 0.0011    | 5.8E-04   | 3.9E-04   | 5.8E-04   | 1.0E-04   | 6.3E-04   | 3.9E-04   | 7.8E-04  | 3.9E-04         |               |
| 120             | 120 | 0.0187       | 0.0027    | 0.0035    | 1.9E-03   | 1.3E-03   | 1.9E-03   | 3.4E-04   | 2.1E-03   | 1.3E-03   | 2.5E-03  | 1.3E-03         |               |

# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|               |               |        |        |         |         |         |         |         |         |         |         | <i>Receptor</i> | <i>Max HI</i> |
|---------------|---------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------------|
|               |               |        |        |         |         |         |         |         |         |         |         | 174             | 0.1721        |
|               |               |        |        |         |         |         |         |         |         |         |         | 6               | 0.0019        |
| Receptor<br># | Total<br>Risk | 1A     | 1B     | 2A      | 2B      | 2C      | 3A      | 3B      | 3C      | 4       | 5       |                 |               |
| 121           | 121 0.0174    | 0.0025 | 0.0032 | 1.8E-03 | 1.2E-03 | 1.8E-03 | 3.2E-04 | 1.9E-03 | 1.2E-03 | 2.4E-03 | 1.2E-03 |                 |               |
| 122           | 122 0.0199    | 0.0028 | 0.0037 | 2.0E-03 | 1.4E-03 | 2.0E-03 | 3.6E-04 | 2.2E-03 | 1.3E-03 | 2.7E-03 | 1.3E-03 |                 |               |
| 123           | 123 0.0235    | 0.0033 | 0.0044 | 2.4E-03 | 1.6E-03 | 2.4E-03 | 4.3E-04 | 2.6E-03 | 1.6E-03 | 3.2E-03 | 1.6E-03 |                 |               |
| 124           | 124 0.0279    | 0.0040 | 0.0052 | 2.8E-03 | 1.9E-03 | 2.8E-03 | 5.1E-04 | 3.1E-03 | 1.9E-03 | 3.8E-03 | 1.9E-03 |                 |               |
| 125           | 125 0.0318    | 0.0045 | 0.0059 | 3.2E-03 | 2.2E-03 | 3.2E-03 | 5.8E-04 | 3.5E-03 | 2.2E-03 | 4.3E-03 | 2.2E-03 |                 |               |
| 126           | 126 0.0396    | 0.0056 | 0.0074 | 4.0E-03 | 2.7E-03 | 4.0E-03 | 7.2E-04 | 4.4E-03 | 2.7E-03 | 5.4E-03 | 2.7E-03 |                 |               |
| 127           | 127 0.0473    | 0.0067 | 0.0088 | 4.8E-03 | 3.3E-03 | 4.8E-03 | 8.6E-04 | 5.2E-03 | 3.2E-03 | 6.4E-03 | 3.2E-03 |                 |               |
| 128           | 128 0.0132    | 0.0019 | 0.0025 | 1.3E-03 | 9.1E-04 | 1.3E-03 | 2.4E-04 | 1.5E-03 | 9.0E-04 | 1.8E-03 | 9.0E-04 |                 |               |
| 129           | 129 0.0111    | 0.0016 | 0.0021 | 1.1E-03 | 7.6E-04 | 1.1E-03 | 2.0E-04 | 1.2E-03 | 7.5E-04 | 1.5E-03 | 7.5E-04 |                 |               |
| 130           | 130 0.0094    | 0.0013 | 0.0017 | 9.6E-04 | 6.5E-04 | 9.5E-04 | 1.7E-04 | 1.0E-03 | 6.4E-04 | 1.3E-03 | 6.4E-04 |                 |               |
| 131           | 131 0.0076    | 0.0011 | 0.0014 | 7.8E-04 | 5.3E-04 | 7.7E-04 | 1.4E-04 | 8.4E-04 | 5.2E-04 | 1.0E-03 | 5.2E-04 |                 |               |
| 132           | 132 0.0053    | 0.0007 | 0.0010 | 5.4E-04 | 3.6E-04 | 5.3E-04 | 9.6E-05 | 5.8E-04 | 3.6E-04 | 7.1E-04 | 3.6E-04 |                 |               |
| 133           | 133 0.0171    | 0.0024 | 0.0032 | 1.7E-03 | 1.2E-03 | 1.7E-03 | 3.1E-04 | 1.9E-03 | 1.2E-03 | 2.3E-03 | 1.2E-03 |                 |               |
| 134           | 134 0.0216    | 0.0031 | 0.0040 | 2.2E-03 | 1.5E-03 | 2.2E-03 | 3.9E-04 | 2.4E-03 | 1.5E-03 | 2.9E-03 | 1.5E-03 |                 |               |
| 135           | 135 0.0272    | 0.0039 | 0.0051 | 2.8E-03 | 1.9E-03 | 2.8E-03 | 5.0E-04 | 3.0E-03 | 1.9E-03 | 3.7E-03 | 1.9E-03 |                 |               |
| 136           | 136 0.0317    | 0.0045 | 0.0059 | 3.2E-03 | 2.2E-03 | 3.2E-03 | 5.8E-04 | 3.5E-03 | 2.2E-03 | 4.3E-03 | 2.2E-03 |                 |               |
| 137           | 137 0.0388    | 0.0055 | 0.0072 | 4.0E-03 | 2.7E-03 | 3.9E-03 | 7.1E-04 | 4.3E-03 | 2.6E-03 | 5.3E-03 | 2.6E-03 |                 |               |
| 138           | 138 0.0546    | 0.0077 | 0.0101 | 5.6E-03 | 3.8E-03 | 5.5E-03 | 9.9E-04 | 6.0E-03 | 3.7E-03 | 7.4E-03 | 3.7E-03 |                 |               |
| 139           | 139 0.1149    | 0.0163 | 0.0214 | 1.2E-02 | 7.9E-03 | 1.2E-02 | 2.1E-03 | 1.3E-02 | 7.8E-03 | 1.6E-02 | 7.8E-03 |                 |               |
| 140           | 140 0.0135    | 0.0019 | 0.0025 | 1.4E-03 | 9.3E-04 | 1.4E-03 | 2.5E-04 | 1.5E-03 | 9.2E-04 | 1.8E-03 | 9.2E-04 |                 |               |
| 141           | 141 0.0106    | 0.0015 | 0.0020 | 1.1E-03 | 7.3E-04 | 1.1E-03 | 1.9E-04 | 1.2E-03 | 7.2E-04 | 1.4E-03 | 7.2E-04 |                 |               |
| 142           | 142 0.0088    | 0.0012 | 0.0016 | 9.0E-04 | 6.0E-04 | 8.9E-04 | 1.6E-04 | 9.7E-04 | 6.0E-04 | 1.2E-03 | 6.0E-04 |                 |               |
| 143           | 143 0.0059    | 0.0008 | 0.0011 | 6.0E-04 | 4.0E-04 | 5.9E-04 | 1.1E-04 | 6.5E-04 | 4.0E-04 | 8.0E-04 | 4.0E-04 |                 |               |
| 144           | 144 0.0252    | 0.0036 | 0.0047 | 2.6E-03 | 1.7E-03 | 2.6E-03 | 4.6E-04 | 2.8E-03 | 1.7E-03 | 3.4E-03 | 1.7E-03 |                 |               |
| 145           | 145 0.0332    | 0.0047 | 0.0062 | 3.4E-03 | 2.3E-03 | 3.4E-03 | 6.0E-04 | 3.7E-03 | 2.3E-03 | 4.5E-03 | 2.3E-03 |                 |               |
| 146           | 146 0.0399    | 0.0057 | 0.0074 | 4.1E-03 | 2.7E-03 | 4.0E-03 | 7.3E-04 | 4.4E-03 | 2.7E-03 | 5.4E-03 | 2.7E-03 |                 |               |
| 147           | 147 0.0532    | 0.0076 | 0.0099 | 5.4E-03 | 3.7E-03 | 5.4E-03 | 9.7E-04 | 5.9E-03 | 3.6E-03 | 7.2E-03 | 3.6E-03 |                 |               |
| 148           | 148 0.0783    | 0.0111 | 0.0146 | 8.0E-03 | 5.4E-03 | 7.9E-03 | 1.4E-03 | 8.6E-03 | 5.3E-03 | 1.1E-02 | 5.3E-03 |                 |               |
| 149           | 149 0.0706    | 0.0100 | 0.0131 | 7.2E-03 | 4.9E-03 | 7.1E-03 | 1.3E-03 | 7.8E-03 | 4.8E-03 | 9.6E-03 | 4.8E-03 |                 |               |
| 150           | 150 0.0409    | 0.0058 | 0.0076 | 4.2E-03 | 2.8E-03 | 4.1E-03 | 7.4E-04 | 4.5E-03 | 2.8E-03 | 5.6E-03 | 2.8E-03 |                 |               |

# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|               |               |        |        |         |         |         |         |         |         |         |         | <i>Receptor</i> | <i>Max HI</i> |
|---------------|---------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------------|
|               |               |        |        |         |         |         |         |         |         |         |         | 174             | 0.1721        |
|               |               |        |        |         |         |         |         |         |         |         |         | 6               | 0.0019        |
| Receptor<br># | Total<br>Risk | 1A     | 1B     | 2A      | 2B      | 2C      | 3A      | 3B      | 3C      | 4       | 5       |                 |               |
| 151           | 151 0.0303    | 0.0043 | 0.0056 | 3.1E-03 | 2.1E-03 | 3.1E-03 | 5.5E-04 | 3.3E-03 | 2.1E-03 | 4.1E-03 | 2.1E-03 |                 |               |
| 152           | 152 0.0246    | 0.0035 | 0.0046 | 2.5E-03 | 1.7E-03 | 2.5E-03 | 4.5E-04 | 2.7E-03 | 1.7E-03 | 3.3E-03 | 1.7E-03 |                 |               |
| 153           | 153 0.0143    | 0.0020 | 0.0027 | 1.5E-03 | 9.8E-04 | 1.4E-03 | 2.6E-04 | 1.6E-03 | 9.7E-04 | 1.9E-03 | 9.7E-04 |                 |               |
| 154           | 154 0.0117    | 0.0017 | 0.0022 | 1.2E-03 | 8.0E-04 | 1.2E-03 | 2.1E-04 | 1.3E-03 | 7.9E-04 | 1.6E-03 | 7.9E-04 |                 |               |
| 155           | 155 0.0095    | 0.0014 | 0.0018 | 9.7E-04 | 6.5E-04 | 9.6E-04 | 1.7E-04 | 1.0E-03 | 6.5E-04 | 1.3E-03 | 6.5E-04 |                 |               |
| 156           | 156 0.0081    | 0.0012 | 0.0015 | 8.3E-04 | 5.6E-04 | 8.2E-04 | 1.5E-04 | 9.0E-04 | 5.5E-04 | 1.1E-03 | 5.5E-04 |                 |               |
| 157           | 157 0.0672    | 0.0095 | 0.0125 | 6.9E-03 | 4.6E-03 | 6.8E-03 | 1.2E-03 | 7.4E-03 | 4.6E-03 | 9.1E-03 | 4.6E-03 |                 |               |
| 158           | 158 0.0757    | 0.0107 | 0.0141 | 7.7E-03 | 5.2E-03 | 7.6E-03 | 1.4E-03 | 8.4E-03 | 5.1E-03 | 1.0E-02 | 5.1E-03 |                 |               |
| 159           | 159 0.0913    | 0.0130 | 0.0170 | 9.3E-03 | 6.3E-03 | 9.2E-03 | 1.7E-03 | 1.0E-02 | 6.2E-03 | 1.2E-02 | 6.2E-03 |                 |               |
| 160           | 160 0.0509    | 0.0072 | 0.0095 | 5.2E-03 | 3.5E-03 | 5.1E-03 | 9.3E-04 | 5.6E-03 | 3.5E-03 | 6.9E-03 | 3.5E-03 |                 |               |
| 161           | 161 0.0332    | 0.0047 | 0.0062 | 3.4E-03 | 2.3E-03 | 3.4E-03 | 6.0E-04 | 3.7E-03 | 2.3E-03 | 4.5E-03 | 2.3E-03 |                 |               |
| 162           | 162 0.0244    | 0.0035 | 0.0045 | 2.5E-03 | 1.7E-03 | 2.5E-03 | 4.4E-04 | 2.7E-03 | 1.7E-03 | 3.3E-03 | 1.7E-03 |                 |               |
| 163           | 163 0.0118    | 0.0017 | 0.0022 | 1.2E-03 | 8.1E-04 | 1.2E-03 | 2.1E-04 | 1.3E-03 | 8.0E-04 | 1.6E-03 | 8.0E-04 |                 |               |
| 164           | 164 0.0103    | 0.0015 | 0.0019 | 1.1E-03 | 7.1E-04 | 1.0E-03 | 1.9E-04 | 1.1E-03 | 7.0E-04 | 1.4E-03 | 7.0E-04 |                 |               |
| 165           | 165 0.0086    | 0.0012 | 0.0016 | 8.8E-04 | 6.0E-04 | 8.7E-04 | 1.6E-04 | 9.5E-04 | 5.9E-04 | 1.2E-03 | 5.9E-04 |                 |               |
| 166           | 166 0.1075    | 0.0153 | 0.0200 | 1.1E-02 | 7.4E-03 | 1.1E-02 | 2.0E-03 | 1.2E-02 | 7.3E-03 | 1.5E-02 | 7.3E-03 |                 |               |
| 167           | 167 0.0591    | 0.0084 | 0.0110 | 6.0E-03 | 4.1E-03 | 6.0E-03 | 1.1E-03 | 6.5E-03 | 4.0E-03 | 8.0E-03 | 4.0E-03 |                 |               |
| 168           | 168 0.0405    | 0.0058 | 0.0075 | 4.1E-03 | 2.8E-03 | 4.1E-03 | 7.4E-04 | 4.5E-03 | 2.8E-03 | 5.5E-03 | 2.8E-03 |                 |               |
| 169           | 169 0.0287    | 0.0041 | 0.0053 | 2.9E-03 | 2.0E-03 | 2.9E-03 | 5.2E-04 | 3.2E-03 | 1.9E-03 | 3.9E-03 | 1.9E-03 |                 |               |
| 170           | 170 0.0218    | 0.0031 | 0.0041 | 2.2E-03 | 1.5E-03 | 2.2E-03 | 4.0E-04 | 2.4E-03 | 1.5E-03 | 3.0E-03 | 1.5E-03 |                 |               |
| 171           | 171 0.0137    | 0.0019 | 0.0025 | 1.4E-03 | 9.4E-04 | 1.4E-03 | 2.5E-04 | 1.5E-03 | 9.3E-04 | 1.9E-03 | 9.3E-04 |                 |               |
| 172           | 172 0.0104    | 0.0015 | 0.0019 | 1.1E-03 | 7.1E-04 | 1.0E-03 | 1.9E-04 | 1.1E-03 | 7.1E-04 | 1.4E-03 | 7.1E-04 |                 |               |
| 173           | 173 0.0086    | 0.0012 | 0.0016 | 8.8E-04 | 5.9E-04 | 8.7E-04 | 1.6E-04 | 9.5E-04 | 5.8E-04 | 1.2E-03 | 5.8E-04 |                 |               |
| 174           | 174 0.1721    | 0.0244 | 0.0320 | 1.8E-02 | 1.2E-02 | 1.7E-02 | 3.1E-03 | 1.9E-02 | 1.2E-02 | 2.3E-02 | 1.2E-02 |                 |               |
| 175           | 175 0.1086    | 0.0154 | 0.0202 | 1.1E-02 | 7.5E-03 | 1.1E-02 | 2.0E-03 | 1.2E-02 | 7.4E-03 | 1.5E-02 | 7.4E-03 |                 |               |
| 176           | 176 0.0671    | 0.0095 | 0.0125 | 6.8E-03 | 4.6E-03 | 6.8E-03 | 1.2E-03 | 7.4E-03 | 4.6E-03 | 9.1E-03 | 4.6E-03 |                 |               |
| 177           | 177 0.0455    | 0.0065 | 0.0085 | 4.6E-03 | 3.1E-03 | 4.6E-03 | 8.3E-04 | 5.0E-03 | 3.1E-03 | 6.2E-03 | 3.1E-03 |                 |               |
| 178           | 178 0.0321    | 0.0046 | 0.0060 | 3.3E-03 | 2.2E-03 | 3.2E-03 | 5.8E-04 | 3.5E-03 | 2.2E-03 | 4.4E-03 | 2.2E-03 |                 |               |
| 179           | 179 0.0233    | 0.0033 | 0.0043 | 2.4E-03 | 1.6E-03 | 2.4E-03 | 4.2E-04 | 2.6E-03 | 1.6E-03 | 3.2E-03 | 1.6E-03 |                 |               |
| 180           | 180 0.0180    | 0.0026 | 0.0033 | 1.8E-03 | 1.2E-03 | 1.8E-03 | 3.3E-04 | 2.0E-03 | 1.2E-03 | 2.4E-03 | 1.2E-03 |                 |               |

# Big Canyon Phase 2

## Construction Non-Cancer Health Risk Summary - Birth to 2 years

|            |     |            |        |        |         |         |         |         |         |         |         | <i>Receptor</i> | <i>Max HI</i> |
|------------|-----|------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------------|
|            |     |            |        |        |         |         |         |         |         |         |         | 174             | 0.1721        |
|            |     |            |        |        |         |         |         |         |         |         |         | 6               | 0.0019        |
| Receptor # |     | Total Risk | 1A     | 1B     | 2A      | 2B      | 2C      | 3A      | 3B      | 3C      | 4       | 5               |               |
| 181        | 181 | 0.0125     | 0.0018 | 0.0023 | 1.3E-03 | 8.6E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.5E-04 | 1.7E-03 | 8.5E-04         |               |
| 182        | 182 | 0.0102     | 0.0014 | 0.0019 | 1.0E-03 | 7.0E-04 | 1.0E-03 | 1.9E-04 | 1.1E-03 | 6.9E-04 | 1.4E-03 | 6.9E-04         |               |
| 183        | 183 | 0.1438     | 0.0204 | 0.0267 | 1.5E-02 | 9.9E-03 | 1.5E-02 | 2.6E-03 | 1.6E-02 | 9.8E-03 | 2.0E-02 | 9.8E-03         |               |
| 184        | 184 | 0.1018     | 0.0145 | 0.0189 | 1.0E-02 | 7.0E-03 | 1.0E-02 | 1.9E-03 | 1.1E-02 | 6.9E-03 | 1.4E-02 | 6.9E-03         |               |
| 185        | 185 | 0.0710     | 0.0101 | 0.0132 | 7.2E-03 | 4.9E-03 | 7.2E-03 | 1.3E-03 | 7.8E-03 | 4.8E-03 | 9.6E-03 | 4.8E-03         |               |
| 186        | 186 | 0.0485     | 0.0069 | 0.0090 | 4.9E-03 | 3.3E-03 | 4.9E-03 | 8.8E-04 | 5.4E-03 | 3.3E-03 | 6.6E-03 | 3.3E-03         |               |
| 187        | 187 | 0.0355     | 0.0050 | 0.0066 | 3.6E-03 | 2.4E-03 | 3.6E-03 | 6.5E-04 | 3.9E-03 | 2.4E-03 | 4.8E-03 | 2.4E-03         |               |
| 188        | 188 | 0.0263     | 0.0037 | 0.0049 | 2.7E-03 | 1.8E-03 | 2.7E-03 | 4.8E-04 | 2.9E-03 | 1.8E-03 | 3.6E-03 | 1.8E-03         |               |
| 189        | 189 | 0.0203     | 0.0029 | 0.0038 | 2.1E-03 | 1.4E-03 | 2.1E-03 | 3.7E-04 | 2.2E-03 | 1.4E-03 | 2.8E-03 | 1.4E-03         |               |
| 190        | 190 | 0.0162     | 0.0023 | 0.0030 | 1.6E-03 | 1.1E-03 | 1.6E-03 | 2.9E-04 | 1.8E-03 | 1.1E-03 | 2.2E-03 | 1.1E-03         |               |
| 191        | 191 | 0.1675     | 0.0238 | 0.0311 | 1.7E-02 | 1.2E-02 | 1.7E-02 | 3.0E-03 | 1.8E-02 | 1.1E-02 | 2.3E-02 | 1.1E-02         |               |
| 192        | 192 | 0.1212     | 0.0172 | 0.0225 | 1.2E-02 | 8.3E-03 | 1.2E-02 | 2.2E-03 | 1.3E-02 | 8.2E-03 | 1.6E-02 | 8.2E-03         |               |
| 193        | 193 | 0.0897     | 0.0127 | 0.0167 | 9.1E-03 | 6.2E-03 | 9.1E-03 | 1.6E-03 | 9.9E-03 | 6.1E-03 | 1.2E-02 | 6.1E-03         |               |
| 194        | 194 | 0.0670     | 0.0095 | 0.0125 | 6.8E-03 | 4.6E-03 | 6.8E-03 | 1.2E-03 | 7.4E-03 | 4.6E-03 | 9.1E-03 | 4.6E-03         |               |
| 195        | 195 | 0.0495     | 0.0070 | 0.0092 | 5.0E-03 | 3.4E-03 | 5.0E-03 | 9.0E-04 | 5.5E-03 | 3.4E-03 | 6.7E-03 | 3.4E-03         |               |
| 196        | 196 | 0.0370     | 0.0053 | 0.0069 | 3.8E-03 | 2.5E-03 | 3.7E-03 | 6.7E-04 | 4.1E-03 | 2.5E-03 | 5.0E-03 | 2.5E-03         |               |
| 197        | 197 | 0.0286     | 0.0041 | 0.0053 | 2.9E-03 | 2.0E-03 | 2.9E-03 | 5.2E-04 | 3.2E-03 | 1.9E-03 | 3.9E-03 | 1.9E-03         |               |
| 198        | 198 | 0.0219     | 0.0031 | 0.0041 | 2.2E-03 | 1.5E-03 | 2.2E-03 | 4.0E-04 | 2.4E-03 | 1.5E-03 | 3.0E-03 | 1.5E-03         |               |
| 199        | 199 | 0.0176     | 0.0025 | 0.0033 | 1.8E-03 | 1.2E-03 | 1.8E-03 | 3.2E-04 | 1.9E-03 | 1.2E-03 | 2.4E-03 | 1.2E-03         |               |
| 200        | 200 | 0.0145     | 0.0021 | 0.0027 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.6E-04 | 1.6E-03 | 9.9E-04 | 2.0E-03 | 9.9E-04         |               |
| 201        | 201 | 0.0654     | 0.0093 | 0.0122 | 6.7E-03 | 4.5E-03 | 6.6E-03 | 1.2E-03 | 7.2E-03 | 4.4E-03 | 8.9E-03 | 4.4E-03         |               |
| 202        | 202 | 0.0996     | 0.0141 | 0.0185 | 1.0E-02 | 6.9E-03 | 1.0E-02 | 1.8E-03 | 1.1E-02 | 6.8E-03 | 1.4E-02 | 6.8E-03         |               |
| 203        | 203 | 0.1180     | 0.0168 | 0.0219 | 1.2E-02 | 8.1E-03 | 1.2E-02 | 2.1E-03 | 1.3E-02 | 8.0E-03 | 1.6E-02 | 8.0E-03         |               |
| 204        | 204 | 0.1283     | 0.0182 | 0.0239 | 1.3E-02 | 8.8E-03 | 1.3E-02 | 2.3E-03 | 1.4E-02 | 8.7E-03 | 1.7E-02 | 8.7E-03         |               |
| 205        | 205 | 0.1186     | 0.0168 | 0.0221 | 1.2E-02 | 8.2E-03 | 1.2E-02 | 2.2E-03 | 1.3E-02 | 8.1E-03 | 1.6E-02 | 8.1E-03         |               |
| 206        | 206 | 0.0982     | 0.0139 | 0.0183 | 1.0E-02 | 6.8E-03 | 9.9E-03 | 1.8E-03 | 1.1E-02 | 6.7E-03 | 1.3E-02 | 6.7E-03         |               |
| 207        | 207 | 0.0790     | 0.0112 | 0.0147 | 8.1E-03 | 5.4E-03 | 8.0E-03 | 1.4E-03 | 8.7E-03 | 5.4E-03 | 1.1E-02 | 5.4E-03         |               |
| 208        | 208 | 0.0623     | 0.0088 | 0.0116 | 6.3E-03 | 4.3E-03 | 6.3E-03 | 1.1E-03 | 6.9E-03 | 4.2E-03 | 8.5E-03 | 4.2E-03         |               |
| 209        | 209 | 0.0481     | 0.0068 | 0.0089 | 4.9E-03 | 3.3E-03 | 4.9E-03 | 8.7E-04 | 5.3E-03 | 3.3E-03 | 6.5E-03 | 3.3E-03         |               |
| 210        | 210 | 0.0375     | 0.0053 | 0.0070 | 3.8E-03 | 2.6E-03 | 3.8E-03 | 6.8E-04 | 4.1E-03 | 2.6E-03 | 5.1E-03 | 2.6E-03         |               |

# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|               |               |        |        |        |         |         |         |         |         |         |         | <i>Receptor</i> | <i>Max HI</i> |
|---------------|---------------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------------|
|               |               |        |        |        |         |         |         |         |         |         |         | 174             | 0.1721        |
|               |               |        |        |        |         |         |         |         |         |         |         | 6               | 0.0019        |
| Receptor<br># | Total<br>Risk | 1A     | 1B     | 2A     | 2B      | 2C      | 3A      | 3B      | 3C      | 4       | 5       |                 |               |
| 211           | 211           | 0.0295 | 0.0042 | 0.0055 | 3.0E-03 | 2.0E-03 | 3.0E-03 | 5.4E-04 | 3.3E-03 | 2.0E-03 | 4.0E-03 | 2.0E-03         |               |
| 212           | 212           | 0.0231 | 0.0033 | 0.0043 | 2.4E-03 | 1.6E-03 | 2.3E-03 | 4.2E-04 | 2.5E-03 | 1.6E-03 | 3.1E-03 | 1.6E-03         |               |
| 213           | 213           | 0.0189 | 0.0027 | 0.0035 | 1.9E-03 | 1.3E-03 | 1.9E-03 | 3.4E-04 | 2.1E-03 | 1.3E-03 | 2.6E-03 | 1.3E-03         |               |
| 214           | 214           | 0.0151 | 0.0021 | 0.0028 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.7E-04 | 1.7E-03 | 1.0E-03 | 2.0E-03 | 1.0E-03         |               |
| 215           | 215           | 0.0126 | 0.0018 | 0.0023 | 1.3E-03 | 8.7E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.6E-04 | 1.7E-03 | 8.6E-04         |               |
| 216           | 216           | 0.0304 | 0.0043 | 0.0057 | 3.1E-03 | 2.1E-03 | 3.1E-03 | 5.5E-04 | 3.4E-03 | 2.1E-03 | 4.1E-03 | 2.1E-03         |               |
| 217           | 217           | 0.0352 | 0.0050 | 0.0065 | 3.6E-03 | 2.4E-03 | 3.6E-03 | 6.4E-04 | 3.9E-03 | 2.4E-03 | 4.8E-03 | 2.4E-03         |               |
| 218           | 218           | 0.0485 | 0.0069 | 0.0090 | 4.9E-03 | 3.3E-03 | 4.9E-03 | 8.8E-04 | 5.4E-03 | 3.3E-03 | 6.6E-03 | 3.3E-03         |               |
| 219           | 219           | 0.0622 | 0.0088 | 0.0116 | 6.3E-03 | 4.3E-03 | 6.3E-03 | 1.1E-03 | 6.9E-03 | 4.2E-03 | 8.4E-03 | 4.2E-03         |               |
| 220           | 220           | 0.0734 | 0.0104 | 0.0136 | 7.5E-03 | 5.1E-03 | 7.4E-03 | 1.3E-03 | 8.1E-03 | 5.0E-03 | 1.0E-02 | 5.0E-03         |               |
| 221           | 221           | 0.0780 | 0.0111 | 0.0145 | 7.9E-03 | 5.4E-03 | 7.9E-03 | 1.4E-03 | 8.6E-03 | 5.3E-03 | 1.1E-02 | 5.3E-03         |               |
| 222           | 222           | 0.0749 | 0.0106 | 0.0139 | 7.6E-03 | 5.2E-03 | 7.6E-03 | 1.4E-03 | 8.3E-03 | 5.1E-03 | 1.0E-02 | 5.1E-03         |               |
| 223           | 223           | 0.0656 | 0.0093 | 0.0122 | 6.7E-03 | 4.5E-03 | 6.6E-03 | 1.2E-03 | 7.2E-03 | 4.5E-03 | 8.9E-03 | 4.5E-03         |               |
| 224           | 224           | 0.0548 | 0.0078 | 0.0102 | 5.6E-03 | 3.8E-03 | 5.5E-03 | 1.0E-03 | 6.0E-03 | 3.7E-03 | 7.4E-03 | 3.7E-03         |               |
| 225           | 225           | 0.0444 | 0.0063 | 0.0083 | 4.5E-03 | 3.1E-03 | 4.5E-03 | 8.1E-04 | 4.9E-03 | 3.0E-03 | 6.0E-03 | 3.0E-03         |               |
| 226           | 226           | 0.0357 | 0.0051 | 0.0066 | 3.6E-03 | 2.5E-03 | 3.6E-03 | 6.5E-04 | 3.9E-03 | 2.4E-03 | 4.8E-03 | 2.4E-03         |               |
| 227           | 227           | 0.0290 | 0.0041 | 0.0054 | 3.0E-03 | 2.0E-03 | 2.9E-03 | 5.3E-04 | 3.2E-03 | 2.0E-03 | 3.9E-03 | 2.0E-03         |               |
| 228           | 228           | 0.0234 | 0.0033 | 0.0044 | 2.4E-03 | 1.6E-03 | 2.4E-03 | 4.3E-04 | 2.6E-03 | 1.6E-03 | 3.2E-03 | 1.6E-03         |               |
| 229           | 229           | 0.0190 | 0.0027 | 0.0035 | 1.9E-03 | 1.3E-03 | 1.9E-03 | 3.5E-04 | 2.1E-03 | 1.3E-03 | 2.6E-03 | 1.3E-03         |               |
| 230           | 230           | 0.0156 | 0.0022 | 0.0029 | 1.6E-03 | 1.1E-03 | 1.6E-03 | 2.8E-04 | 1.7E-03 | 1.1E-03 | 2.1E-03 | 1.1E-03         |               |
| 231           | 231           | 0.0125 | 0.0018 | 0.0023 | 1.3E-03 | 8.6E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.5E-04 | 1.7E-03 | 8.5E-04         |               |
| 232           | 232           | 0.0213 | 0.0030 | 0.0040 | 2.2E-03 | 1.5E-03 | 2.2E-03 | 3.9E-04 | 2.4E-03 | 1.4E-03 | 2.9E-03 | 1.4E-03         |               |
| 233           | 233           | 0.0225 | 0.0032 | 0.0042 | 2.3E-03 | 1.5E-03 | 2.3E-03 | 4.1E-04 | 2.5E-03 | 1.5E-03 | 3.0E-03 | 1.5E-03         |               |
| 234           | 234           | 0.0297 | 0.0042 | 0.0055 | 3.0E-03 | 2.0E-03 | 3.0E-03 | 5.4E-04 | 3.3E-03 | 2.0E-03 | 4.0E-03 | 2.0E-03         |               |
| 235           | 235           | 0.0381 | 0.0054 | 0.0071 | 3.9E-03 | 2.6E-03 | 3.9E-03 | 6.9E-04 | 4.2E-03 | 2.6E-03 | 5.2E-03 | 2.6E-03         |               |
| 236           | 236           | 0.0466 | 0.0066 | 0.0087 | 4.8E-03 | 3.2E-03 | 4.7E-03 | 8.5E-04 | 5.1E-03 | 3.2E-03 | 6.3E-03 | 3.2E-03         |               |
| 237           | 237           | 0.0546 | 0.0077 | 0.0101 | 5.6E-03 | 3.8E-03 | 5.5E-03 | 9.9E-04 | 6.0E-03 | 3.7E-03 | 7.4E-03 | 3.7E-03         |               |
| 238           | 238           | 0.0556 | 0.0079 | 0.0103 | 5.7E-03 | 3.8E-03 | 5.6E-03 | 1.0E-03 | 6.1E-03 | 3.8E-03 | 7.6E-03 | 3.8E-03         |               |
| 239           | 239           | 0.0517 | 0.0073 | 0.0096 | 5.3E-03 | 3.6E-03 | 5.2E-03 | 9.4E-04 | 5.7E-03 | 3.5E-03 | 7.0E-03 | 3.5E-03         |               |
| 240           | 240           | 0.0459 | 0.0065 | 0.0085 | 4.7E-03 | 3.2E-03 | 4.6E-03 | 8.4E-04 | 5.1E-03 | 3.1E-03 | 6.2E-03 | 3.1E-03         |               |

# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|               |               |        |        |         |         |         |         |         |         |         |         | <i>Receptor</i> | <i>Max HI</i> |
|---------------|---------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------------|
|               |               |        |        |         |         |         |         |         |         |         |         | 174             | 0.1721        |
|               |               |        |        |         |         |         |         |         |         |         |         | 6               | 0.0019        |
| Receptor<br># | Total<br>Risk | 1A     | 1B     | 2A      | 2B      | 2C      | 3A      | 3B      | 3C      | 4       | 5       |                 |               |
| 241           | 241 0.0389    | 0.0055 | 0.0072 | 4.0E-03 | 2.7E-03 | 3.9E-03 | 7.1E-04 | 4.3E-03 | 2.6E-03 | 5.3E-03 | 2.6E-03 |                 |               |
| 242           | 242 0.0328    | 0.0047 | 0.0061 | 3.3E-03 | 2.3E-03 | 3.3E-03 | 6.0E-04 | 3.6E-03 | 2.2E-03 | 4.4E-03 | 2.2E-03 |                 |               |
| 243           | 243 0.0273    | 0.0039 | 0.0051 | 2.8E-03 | 1.9E-03 | 2.8E-03 | 5.0E-04 | 3.0E-03 | 1.9E-03 | 3.7E-03 | 1.9E-03 |                 |               |
| 244           | 244 0.0228    | 0.0032 | 0.0042 | 2.3E-03 | 1.6E-03 | 2.3E-03 | 4.2E-04 | 2.5E-03 | 1.6E-03 | 3.1E-03 | 1.6E-03 |                 |               |
| 245           | 245 0.0185    | 0.0026 | 0.0034 | 1.9E-03 | 1.3E-03 | 1.9E-03 | 3.4E-04 | 2.0E-03 | 1.3E-03 | 2.5E-03 | 1.3E-03 |                 |               |
| 246           | 246 0.0157    | 0.0022 | 0.0029 | 1.6E-03 | 1.1E-03 | 1.6E-03 | 2.9E-04 | 1.7E-03 | 1.1E-03 | 2.1E-03 | 1.1E-03 |                 |               |
| 247           | 247 0.0127    | 0.0018 | 0.0024 | 1.3E-03 | 8.7E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.6E-04 | 1.7E-03 | 8.6E-04 |                 |               |
| 248           | 248 0.0174    | 0.0025 | 0.0032 | 1.8E-03 | 1.2E-03 | 1.8E-03 | 3.2E-04 | 1.9E-03 | 1.2E-03 | 2.4E-03 | 1.2E-03 |                 |               |
| 249           | 249 0.0172    | 0.0024 | 0.0032 | 1.8E-03 | 1.2E-03 | 1.7E-03 | 3.1E-04 | 1.9E-03 | 1.2E-03 | 2.3E-03 | 1.2E-03 |                 |               |
| 250           | 250 0.0202    | 0.0029 | 0.0038 | 2.1E-03 | 1.4E-03 | 2.0E-03 | 3.7E-04 | 2.2E-03 | 1.4E-03 | 2.7E-03 | 1.4E-03 |                 |               |
| 251           | 251 0.0259    | 0.0037 | 0.0048 | 2.6E-03 | 1.8E-03 | 2.6E-03 | 4.7E-04 | 2.9E-03 | 1.8E-03 | 3.5E-03 | 1.8E-03 |                 |               |
| 252           | 252 0.0329    | 0.0047 | 0.0061 | 3.4E-03 | 2.3E-03 | 3.3E-03 | 6.0E-04 | 3.6E-03 | 2.2E-03 | 4.5E-03 | 2.2E-03 |                 |               |
| 253           | 253 0.0383    | 0.0054 | 0.0071 | 3.9E-03 | 2.6E-03 | 3.9E-03 | 7.0E-04 | 4.2E-03 | 2.6E-03 | 5.2E-03 | 2.6E-03 |                 |               |
| 254           | 254 0.0408    | 0.0058 | 0.0076 | 4.2E-03 | 2.8E-03 | 4.1E-03 | 7.4E-04 | 4.5E-03 | 2.8E-03 | 5.5E-03 | 2.8E-03 |                 |               |
| 255           | 255 0.0405    | 0.0057 | 0.0075 | 4.1E-03 | 2.8E-03 | 4.1E-03 | 7.4E-04 | 4.5E-03 | 2.8E-03 | 5.5E-03 | 2.8E-03 |                 |               |
| 256           | 256 0.0379    | 0.0054 | 0.0070 | 3.9E-03 | 2.6E-03 | 3.8E-03 | 6.9E-04 | 4.2E-03 | 2.6E-03 | 5.1E-03 | 2.6E-03 |                 |               |
| 257           | 257 0.0338    | 0.0048 | 0.0063 | 3.4E-03 | 2.3E-03 | 3.4E-03 | 6.2E-04 | 3.7E-03 | 2.3E-03 | 4.6E-03 | 2.3E-03 |                 |               |
| 258           | 258 0.0294    | 0.0042 | 0.0055 | 3.0E-03 | 2.0E-03 | 3.0E-03 | 5.3E-04 | 3.2E-03 | 2.0E-03 | 4.0E-03 | 2.0E-03 |                 |               |
| 259           | 259 0.0252    | 0.0036 | 0.0047 | 2.6E-03 | 1.7E-03 | 2.5E-03 | 4.6E-04 | 2.8E-03 | 1.7E-03 | 3.4E-03 | 1.7E-03 |                 |               |
| 260           | 260 0.0216    | 0.0031 | 0.0040 | 2.2E-03 | 1.5E-03 | 2.2E-03 | 3.9E-04 | 2.4E-03 | 1.5E-03 | 2.9E-03 | 1.5E-03 |                 |               |
| 261           | 261 0.0180    | 0.0026 | 0.0033 | 1.8E-03 | 1.2E-03 | 1.8E-03 | 3.3E-04 | 2.0E-03 | 1.2E-03 | 2.4E-03 | 1.2E-03 |                 |               |
| 262           | 262 0.0153    | 0.0022 | 0.0029 | 1.6E-03 | 1.1E-03 | 1.6E-03 | 2.8E-04 | 1.7E-03 | 1.0E-03 | 2.1E-03 | 1.0E-03 |                 |               |
| 263           | 263 0.0127    | 0.0018 | 0.0024 | 1.3E-03 | 8.7E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.6E-04 | 1.7E-03 | 8.6E-04 |                 |               |
| 264           | 264 0.0117    | 0.0017 | 0.0022 | 1.2E-03 | 8.0E-04 | 1.2E-03 | 2.1E-04 | 1.3E-03 | 7.9E-04 | 1.6E-03 | 7.9E-04 |                 |               |
| 265           | 265 0.0113    | 0.0016 | 0.0021 | 1.1E-03 | 7.8E-04 | 1.1E-03 | 2.1E-04 | 1.2E-03 | 7.7E-04 | 1.5E-03 | 7.7E-04 |                 |               |
| 266           | 266 0.0116    | 0.0017 | 0.0022 | 1.2E-03 | 8.0E-04 | 1.2E-03 | 2.1E-04 | 1.3E-03 | 7.9E-04 | 1.6E-03 | 7.9E-04 |                 |               |
| 267           | 267 0.0134    | 0.0019 | 0.0025 | 1.4E-03 | 9.2E-04 | 1.4E-03 | 2.4E-04 | 1.5E-03 | 9.1E-04 | 1.8E-03 | 9.1E-04 |                 |               |
| 268           | 268 0.0133    | 0.0019 | 0.0025 | 1.4E-03 | 9.1E-04 | 1.3E-03 | 2.4E-04 | 1.5E-03 | 9.0E-04 | 1.8E-03 | 9.0E-04 |                 |               |
| 269           | 269 0.0150    | 0.0021 | 0.0028 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.7E-04 | 1.7E-03 | 1.0E-03 | 2.0E-03 | 1.0E-03 |                 |               |
| 270           | 270 0.0185    | 0.0026 | 0.0034 | 1.9E-03 | 1.3E-03 | 1.9E-03 | 3.4E-04 | 2.0E-03 | 1.3E-03 | 2.5E-03 | 1.3E-03 |                 |               |

# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|               |               |        |        |        |         |         |         |         |         |         |         | <i>Receptor</i> | <i>Max HI</i> |
|---------------|---------------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------------|
|               |               |        |        |        |         |         |         |         |         |         |         | 174             | 0.1721        |
|               |               |        |        |        |         |         |         |         |         |         |         | 6               | 0.0019        |
| Receptor<br># | Total<br>Risk | 1A     | 1B     | 2A     | 2B      | 2C      | 3A      | 3B      | 3C      | 4       | 5       |                 |               |
| 271           | 271           | 0.0235 | 0.0033 | 0.0044 | 2.4E-03 | 1.6E-03 | 2.4E-03 | 4.3E-04 | 2.6E-03 | 1.6E-03 | 3.2E-03 | 1.6E-03         |               |
| 272           | 272           | 0.0279 | 0.0040 | 0.0052 | 2.8E-03 | 1.9E-03 | 2.8E-03 | 5.1E-04 | 3.1E-03 | 1.9E-03 | 3.8E-03 | 1.9E-03         |               |
| 273           | 273           | 0.0308 | 0.0044 | 0.0057 | 3.1E-03 | 2.1E-03 | 3.1E-03 | 5.6E-04 | 3.4E-03 | 2.1E-03 | 4.2E-03 | 2.1E-03         |               |
| 274           | 274           | 0.0318 | 0.0045 | 0.0059 | 3.2E-03 | 2.2E-03 | 3.2E-03 | 5.8E-04 | 3.5E-03 | 2.2E-03 | 4.3E-03 | 2.2E-03         |               |
| 275           | 275           | 0.0308 | 0.0044 | 0.0057 | 3.1E-03 | 2.1E-03 | 3.1E-03 | 5.6E-04 | 3.4E-03 | 2.1E-03 | 4.2E-03 | 2.1E-03         |               |
| 276           | 276           | 0.0288 | 0.0041 | 0.0054 | 2.9E-03 | 2.0E-03 | 2.9E-03 | 5.2E-04 | 3.2E-03 | 2.0E-03 | 3.9E-03 | 2.0E-03         |               |
| 277           | 277           | 0.0259 | 0.0037 | 0.0048 | 2.6E-03 | 1.8E-03 | 2.6E-03 | 4.7E-04 | 2.9E-03 | 1.8E-03 | 3.5E-03 | 1.8E-03         |               |
| 278           | 278           | 0.0229 | 0.0033 | 0.0043 | 2.3E-03 | 1.6E-03 | 2.3E-03 | 4.2E-04 | 2.5E-03 | 1.6E-03 | 3.1E-03 | 1.6E-03         |               |
| 279           | 279           | 0.0201 | 0.0029 | 0.0037 | 2.1E-03 | 1.4E-03 | 2.0E-03 | 3.7E-04 | 2.2E-03 | 1.4E-03 | 2.7E-03 | 1.4E-03         |               |
| 280           | 280           | 0.0172 | 0.0024 | 0.0032 | 1.8E-03 | 1.2E-03 | 1.7E-03 | 3.1E-04 | 1.9E-03 | 1.2E-03 | 2.3E-03 | 1.2E-03         |               |
| 281           | 281           | 0.0145 | 0.0021 | 0.0027 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.6E-04 | 1.6E-03 | 9.9E-04 | 2.0E-03 | 9.9E-04         |               |
| 282           | 282           | 0.0122 | 0.0017 | 0.0023 | 1.2E-03 | 8.4E-04 | 1.2E-03 | 2.2E-04 | 1.4E-03 | 8.3E-04 | 1.7E-03 | 8.3E-04         |               |
| 283           | 283           | 0.0093 | 0.0013 | 0.0017 | 9.4E-04 | 6.4E-04 | 9.4E-04 | 1.7E-04 | 1.0E-03 | 6.3E-04 | 1.3E-03 | 6.3E-04         |               |
| 284           | 284           | 0.0089 | 0.0013 | 0.0017 | 9.1E-04 | 6.1E-04 | 9.0E-04 | 1.6E-04 | 9.8E-04 | 6.0E-04 | 1.2E-03 | 6.0E-04         |               |
| 285           | 285           | 0.0087 | 0.0012 | 0.0016 | 8.9E-04 | 6.0E-04 | 8.8E-04 | 1.6E-04 | 9.6E-04 | 5.9E-04 | 1.2E-03 | 5.9E-04         |               |
| 286           | 286           | 0.0092 | 0.0013 | 0.0017 | 9.4E-04 | 6.3E-04 | 9.3E-04 | 1.7E-04 | 1.0E-03 | 6.3E-04 | 1.3E-03 | 6.3E-04         |               |
| 287           | 287           | 0.0105 | 0.0015 | 0.0020 | 1.1E-03 | 7.2E-04 | 1.1E-03 | 1.9E-04 | 1.2E-03 | 7.2E-04 | 1.4E-03 | 7.2E-04         |               |
| 288           | 288           | 0.0115 | 0.0016 | 0.0021 | 1.2E-03 | 7.9E-04 | 1.2E-03 | 2.1E-04 | 1.3E-03 | 7.8E-04 | 1.6E-03 | 7.8E-04         |               |
| 289           | 289           | 0.0119 | 0.0017 | 0.0022 | 1.2E-03 | 8.2E-04 | 1.2E-03 | 2.2E-04 | 1.3E-03 | 8.1E-04 | 1.6E-03 | 8.1E-04         |               |
| 290           | 290           | 0.0144 | 0.0020 | 0.0027 | 1.5E-03 | 9.9E-04 | 1.5E-03 | 2.6E-04 | 1.6E-03 | 9.8E-04 | 2.0E-03 | 9.8E-04         |               |
| 291           | 291           | 0.0176 | 0.0025 | 0.0033 | 1.8E-03 | 1.2E-03 | 1.8E-03 | 3.2E-04 | 1.9E-03 | 1.2E-03 | 2.4E-03 | 1.2E-03         |               |
| 292           | 292           | 0.0210 | 0.0030 | 0.0039 | 2.1E-03 | 1.4E-03 | 2.1E-03 | 3.8E-04 | 2.3E-03 | 1.4E-03 | 2.8E-03 | 1.4E-03         |               |
| 293           | 293           | 0.0237 | 0.0034 | 0.0044 | 2.4E-03 | 1.6E-03 | 2.4E-03 | 4.3E-04 | 2.6E-03 | 1.6E-03 | 3.2E-03 | 1.6E-03         |               |
| 294           | 294           | 0.0252 | 0.0036 | 0.0047 | 2.6E-03 | 1.7E-03 | 2.5E-03 | 4.6E-04 | 2.8E-03 | 1.7E-03 | 3.4E-03 | 1.7E-03         |               |
| 295           | 295           | 0.0253 | 0.0036 | 0.0047 | 2.6E-03 | 1.7E-03 | 2.6E-03 | 4.6E-04 | 2.8E-03 | 1.7E-03 | 3.4E-03 | 1.7E-03         |               |
| 296           | 296           | 0.0244 | 0.0035 | 0.0045 | 2.5E-03 | 1.7E-03 | 2.5E-03 | 4.4E-04 | 2.7E-03 | 1.7E-03 | 3.3E-03 | 1.7E-03         |               |
| 297           | 297           | 0.0228 | 0.0032 | 0.0042 | 2.3E-03 | 1.6E-03 | 2.3E-03 | 4.1E-04 | 2.5E-03 | 1.5E-03 | 3.1E-03 | 1.5E-03         |               |
| 298           | 298           | 0.0207 | 0.0029 | 0.0038 | 2.1E-03 | 1.4E-03 | 2.1E-03 | 3.8E-04 | 2.3E-03 | 1.4E-03 | 2.8E-03 | 1.4E-03         |               |
| 299           | 299           | 0.0184 | 0.0026 | 0.0034 | 1.9E-03 | 1.3E-03 | 1.9E-03 | 3.4E-04 | 2.0E-03 | 1.3E-03 | 2.5E-03 | 1.3E-03         |               |
| 300           | 300           | 0.0161 | 0.0023 | 0.0030 | 1.6E-03 | 1.1E-03 | 1.6E-03 | 2.9E-04 | 1.8E-03 | 1.1E-03 | 2.2E-03 | 1.1E-03         |               |



# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|               |               |        |        |         |         |         |         |         |         |         |         | <i>Receptor</i> | <i>Max HI</i> |
|---------------|---------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------------|
|               |               |        |        |         |         |         |         |         |         |         |         | 174             | 0.1721        |
|               |               |        |        |         |         |         |         |         |         |         |         | 6               | 0.0019        |
| Receptor<br># | Total<br>Risk | 1A     | 1B     | 2A      | 2B      | 2C      | 3A      | 3B      | 3C      | 4       | 5       |                 |               |
| 301           | 301 0.0133    | 0.0019 | 0.0025 | 1.4E-03 | 9.1E-04 | 1.3E-03 | 2.4E-04 | 1.5E-03 | 9.0E-04 | 1.8E-03 | 9.0E-04 |                 |               |
| 302           | 302 0.0117    | 0.0017 | 0.0022 | 1.2E-03 | 8.1E-04 | 1.2E-03 | 2.1E-04 | 1.3E-03 | 8.0E-04 | 1.6E-03 | 8.0E-04 |                 |               |
| 303           | 303 0.0079    | 0.0011 | 0.0015 | 8.0E-04 | 5.4E-04 | 8.0E-04 | 1.4E-04 | 8.7E-04 | 5.4E-04 | 1.1E-03 | 5.4E-04 |                 |               |
| 304           | 304 0.0072    | 0.0010 | 0.0013 | 7.4E-04 | 5.0E-04 | 7.3E-04 | 1.3E-04 | 8.0E-04 | 4.9E-04 | 9.8E-04 | 4.9E-04 |                 |               |
| 305           | 305 0.0071    | 0.0010 | 0.0013 | 7.3E-04 | 4.9E-04 | 7.2E-04 | 1.3E-04 | 7.9E-04 | 4.9E-04 | 9.7E-04 | 4.9E-04 |                 |               |
| 306           | 306 0.0069    | 0.0010 | 0.0013 | 7.0E-04 | 4.8E-04 | 7.0E-04 | 1.3E-04 | 7.6E-04 | 4.7E-04 | 9.4E-04 | 4.7E-04 |                 |               |
| 307           | 307 0.0071    | 0.0010 | 0.0013 | 7.2E-04 | 4.9E-04 | 7.2E-04 | 1.3E-04 | 7.9E-04 | 4.8E-04 | 9.6E-04 | 4.8E-04 |                 |               |
| 308           | 308 0.0079    | 0.0011 | 0.0015 | 8.0E-04 | 5.4E-04 | 7.9E-04 | 1.4E-04 | 8.7E-04 | 5.3E-04 | 1.1E-03 | 5.3E-04 |                 |               |
| 309           | 309 0.0089    | 0.0013 | 0.0017 | 9.0E-04 | 6.1E-04 | 9.0E-04 | 1.6E-04 | 9.8E-04 | 6.0E-04 | 1.2E-03 | 6.0E-04 |                 |               |
| 310           | 310 0.0096    | 0.0014 | 0.0018 | 9.8E-04 | 6.6E-04 | 9.7E-04 | 1.8E-04 | 1.1E-03 | 6.5E-04 | 1.3E-03 | 6.5E-04 |                 |               |
| 311           | 311 0.0113    | 0.0016 | 0.0021 | 1.2E-03 | 7.8E-04 | 1.1E-03 | 2.1E-04 | 1.3E-03 | 7.7E-04 | 1.5E-03 | 7.7E-04 |                 |               |
| 312           | 312 0.0136    | 0.0019 | 0.0025 | 1.4E-03 | 9.4E-04 | 1.4E-03 | 2.5E-04 | 1.5E-03 | 9.3E-04 | 1.8E-03 | 9.3E-04 |                 |               |
| 313           | 313 0.0162    | 0.0023 | 0.0030 | 1.6E-03 | 1.1E-03 | 1.6E-03 | 2.9E-04 | 1.8E-03 | 1.1E-03 | 2.2E-03 | 1.1E-03 |                 |               |
| 314           | 314 0.0185    | 0.0026 | 0.0034 | 1.9E-03 | 1.3E-03 | 1.9E-03 | 3.4E-04 | 2.0E-03 | 1.3E-03 | 2.5E-03 | 1.3E-03 |                 |               |
| 315           | 315 0.0202    | 0.0029 | 0.0037 | 2.1E-03 | 1.4E-03 | 2.0E-03 | 3.7E-04 | 2.2E-03 | 1.4E-03 | 2.7E-03 | 1.4E-03 |                 |               |
| 316           | 316 0.0209    | 0.0030 | 0.0039 | 2.1E-03 | 1.4E-03 | 2.1E-03 | 3.8E-04 | 2.3E-03 | 1.4E-03 | 2.8E-03 | 1.4E-03 |                 |               |
| 317           | 317 0.0207    | 0.0029 | 0.0038 | 2.1E-03 | 1.4E-03 | 2.1E-03 | 3.8E-04 | 2.3E-03 | 1.4E-03 | 2.8E-03 | 1.4E-03 |                 |               |
| 318           | 318 0.0198    | 0.0028 | 0.0037 | 2.0E-03 | 1.4E-03 | 2.0E-03 | 3.6E-04 | 2.2E-03 | 1.3E-03 | 2.7E-03 | 1.3E-03 |                 |               |
| 319           | 319 0.0184    | 0.0026 | 0.0034 | 1.9E-03 | 1.3E-03 | 1.9E-03 | 3.3E-04 | 2.0E-03 | 1.3E-03 | 2.5E-03 | 1.3E-03 |                 |               |
| 320           | 320 0.0166    | 0.0024 | 0.0031 | 1.7E-03 | 1.1E-03 | 1.7E-03 | 3.0E-04 | 1.8E-03 | 1.1E-03 | 2.3E-03 | 1.1E-03 |                 |               |
| 321           | 321 0.0149    | 0.0021 | 0.0028 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.7E-04 | 1.6E-03 | 1.0E-03 | 2.0E-03 | 1.0E-03 |                 |               |
| 322           | 322 0.0124    | 0.0018 | 0.0023 | 1.3E-03 | 8.5E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.4E-04 | 1.7E-03 | 8.4E-04 |                 |               |
| 323           | 323 0.0111    | 0.0016 | 0.0021 | 1.1E-03 | 7.6E-04 | 1.1E-03 | 2.0E-04 | 1.2E-03 | 7.5E-04 | 1.5E-03 | 7.5E-04 |                 |               |
| 324           | 324 0.0077    | 0.0011 | 0.0014 | 7.8E-04 | 5.3E-04 | 7.7E-04 | 1.4E-04 | 8.5E-04 | 5.2E-04 | 1.0E-03 | 5.2E-04 |                 |               |
| 325           | 325 0.0067    | 0.0009 | 0.0012 | 6.8E-04 | 4.6E-04 | 6.7E-04 | 1.2E-04 | 7.4E-04 | 4.5E-04 | 9.0E-04 | 4.5E-04 |                 |               |
| 326           | 326 0.0065    | 0.0009 | 0.0012 | 6.6E-04 | 4.5E-04 | 6.6E-04 | 1.2E-04 | 7.2E-04 | 4.4E-04 | 8.8E-04 | 4.4E-04 |                 |               |
| 327           | 327 0.0059    | 0.0008 | 0.0011 | 6.0E-04 | 4.0E-04 | 5.9E-04 | 1.1E-04 | 6.5E-04 | 4.0E-04 | 8.0E-04 | 4.0E-04 |                 |               |
| 328           | 328 0.0059    | 0.0008 | 0.0011 | 6.0E-04 | 4.0E-04 | 5.9E-04 | 1.1E-04 | 6.5E-04 | 4.0E-04 | 8.0E-04 | 4.0E-04 |                 |               |
| 329           | 329 0.0064    | 0.0009 | 0.0012 | 6.5E-04 | 4.4E-04 | 6.4E-04 | 1.2E-04 | 7.0E-04 | 4.3E-04 | 8.7E-04 | 4.3E-04 |                 |               |
| 330           | 330 0.0067    | 0.0009 | 0.0012 | 6.8E-04 | 4.6E-04 | 6.7E-04 | 1.2E-04 | 7.3E-04 | 4.5E-04 | 9.0E-04 | 4.5E-04 |                 |               |

# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|               |               |        |        |        |         |         |         |         |         |         |         | <i>Receptor</i> | <i>Max HI</i> |
|---------------|---------------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------------|
|               |               |        |        |        |         |         |         |         |         |         |         | 174             | 0.1721        |
|               |               |        |        |        |         |         |         |         |         |         |         | 6               | 0.0019        |
| Receptor<br># | Total<br>Risk | 1A     | 1B     | 2A     | 2B      | 2C      | 3A      | 3B      | 3C      | 4       | 5       |                 |               |
| 331           | 331           | 0.0072 | 0.0010 | 0.0013 | 7.4E-04 | 5.0E-04 | 7.3E-04 | 1.3E-04 | 8.0E-04 | 4.9E-04 | 9.8E-04 | 4.9E-04         |               |
| 332           | 332           | 0.0081 | 0.0012 | 0.0015 | 8.3E-04 | 5.6E-04 | 8.2E-04 | 1.5E-04 | 8.9E-04 | 5.5E-04 | 1.1E-03 | 5.5E-04         |               |
| 333           | 333           | 0.0092 | 0.0013 | 0.0017 | 9.4E-04 | 6.3E-04 | 9.3E-04 | 1.7E-04 | 1.0E-03 | 6.3E-04 | 1.2E-03 | 6.3E-04         |               |
| 334           | 334           | 0.0108 | 0.0015 | 0.0020 | 1.1E-03 | 7.5E-04 | 1.1E-03 | 2.0E-04 | 1.2E-03 | 7.4E-04 | 1.5E-03 | 7.4E-04         |               |
| 335           | 335           | 0.0128 | 0.0018 | 0.0024 | 1.3E-03 | 8.8E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.7E-04 | 1.7E-03 | 8.7E-04         |               |
| 336           | 336           | 0.0147 | 0.0021 | 0.0027 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.7E-04 | 1.6E-03 | 1.0E-03 | 2.0E-03 | 1.0E-03         |               |
| 337           | 337           | 0.0162 | 0.0023 | 0.0030 | 1.7E-03 | 1.1E-03 | 1.6E-03 | 3.0E-04 | 1.8E-03 | 1.1E-03 | 2.2E-03 | 1.1E-03         |               |
| 338           | 338           | 0.0173 | 0.0025 | 0.0032 | 1.8E-03 | 1.2E-03 | 1.7E-03 | 3.1E-04 | 1.9E-03 | 1.2E-03 | 2.3E-03 | 1.2E-03         |               |
| 339           | 339           | 0.0176 | 0.0025 | 0.0033 | 1.8E-03 | 1.2E-03 | 1.8E-03 | 3.2E-04 | 1.9E-03 | 1.2E-03 | 2.4E-03 | 1.2E-03         |               |
| 340           | 340           | 0.0172 | 0.0024 | 0.0032 | 1.8E-03 | 1.2E-03 | 1.7E-03 | 3.1E-04 | 1.9E-03 | 1.2E-03 | 2.3E-03 | 1.2E-03         |               |
| 341           | 341           | 0.0163 | 0.0023 | 0.0030 | 1.7E-03 | 1.1E-03 | 1.7E-03 | 3.0E-04 | 1.8E-03 | 1.1E-03 | 2.2E-03 | 1.1E-03         |               |
| 342           | 342           | 0.0147 | 0.0021 | 0.0027 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.7E-04 | 1.6E-03 | 1.0E-03 | 2.0E-03 | 1.0E-03         |               |
| 343           | 343           | 0.0135 | 0.0019 | 0.0025 | 1.4E-03 | 9.3E-04 | 1.4E-03 | 2.5E-04 | 1.5E-03 | 9.2E-04 | 1.8E-03 | 9.2E-04         |               |
| 344           | 344           | 0.0115 | 0.0016 | 0.0021 | 1.2E-03 | 7.9E-04 | 1.2E-03 | 2.1E-04 | 1.3E-03 | 7.8E-04 | 1.6E-03 | 7.8E-04         |               |
| 345           | 345           | 0.0104 | 0.0015 | 0.0019 | 1.1E-03 | 7.2E-04 | 1.1E-03 | 1.9E-04 | 1.2E-03 | 7.1E-04 | 1.4E-03 | 7.1E-04         |               |
| 346           | 346           | 0.0058 | 0.0008 | 0.0011 | 5.9E-04 | 4.0E-04 | 5.9E-04 | 1.1E-04 | 6.4E-04 | 4.0E-04 | 7.9E-04 | 4.0E-04         |               |
| 347           | 347           | 0.0056 | 0.0008 | 0.0010 | 5.7E-04 | 3.9E-04 | 5.7E-04 | 1.0E-04 | 6.2E-04 | 3.8E-04 | 7.6E-04 | 3.8E-04         |               |
| 348           | 348           | 0.0054 | 0.0008 | 0.0010 | 5.5E-04 | 3.7E-04 | 5.4E-04 | 9.8E-05 | 5.9E-04 | 3.7E-04 | 7.3E-04 | 3.7E-04         |               |
| 349           | 349           | 0.0051 | 0.0007 | 0.0009 | 5.2E-04 | 3.5E-04 | 5.1E-04 | 9.3E-05 | 5.6E-04 | 3.5E-04 | 6.9E-04 | 3.5E-04         |               |
| 350           | 350           | 0.0051 | 0.0007 | 0.0010 | 5.2E-04 | 3.5E-04 | 5.2E-04 | 9.4E-05 | 5.7E-04 | 3.5E-04 | 7.0E-04 | 3.5E-04         |               |
| 351           | 351           | 0.0055 | 0.0008 | 0.0010 | 5.6E-04 | 3.8E-04 | 5.5E-04 | 1.0E-04 | 6.0E-04 | 3.7E-04 | 7.4E-04 | 3.7E-04         |               |
| 352           | 352           | 0.0058 | 0.0008 | 0.0011 | 5.9E-04 | 4.0E-04 | 5.9E-04 | 1.1E-04 | 6.4E-04 | 4.0E-04 | 7.9E-04 | 4.0E-04         |               |
| 353           | 353           | 0.0062 | 0.0009 | 0.0011 | 6.3E-04 | 4.2E-04 | 6.2E-04 | 1.1E-04 | 6.8E-04 | 4.2E-04 | 8.4E-04 | 4.2E-04         |               |
| 354           | 354           | 0.0068 | 0.0010 | 0.0013 | 6.9E-04 | 4.7E-04 | 6.8E-04 | 1.2E-04 | 7.5E-04 | 4.6E-04 | 9.2E-04 | 4.6E-04         |               |
| 355           | 355           | 0.0074 | 0.0011 | 0.0014 | 7.6E-04 | 5.1E-04 | 7.5E-04 | 1.4E-04 | 8.2E-04 | 5.0E-04 | 1.0E-03 | 5.0E-04         |               |
| 356           | 356           | 0.0088 | 0.0013 | 0.0016 | 9.0E-04 | 6.1E-04 | 8.9E-04 | 1.6E-04 | 9.8E-04 | 6.0E-04 | 1.2E-03 | 6.0E-04         |               |
| 357           | 357           | 0.0103 | 0.0015 | 0.0019 | 1.1E-03 | 7.1E-04 | 1.0E-03 | 1.9E-04 | 1.1E-03 | 7.0E-04 | 1.4E-03 | 7.0E-04         |               |
| 358           | 358           | 0.0119 | 0.0017 | 0.0022 | 1.2E-03 | 8.2E-04 | 1.2E-03 | 2.2E-04 | 1.3E-03 | 8.1E-04 | 1.6E-03 | 8.1E-04         |               |
| 359           | 359           | 0.0133 | 0.0019 | 0.0025 | 1.4E-03 | 9.2E-04 | 1.3E-03 | 2.4E-04 | 1.5E-03 | 9.0E-04 | 1.8E-03 | 9.0E-04         |               |
| 360           | 360           | 0.0144 | 0.0020 | 0.0027 | 1.5E-03 | 9.9E-04 | 1.5E-03 | 2.6E-04 | 1.6E-03 | 9.8E-04 | 1.9E-03 | 9.8E-04         |               |

# **Big Canyon Phase 2** **Construction Non-Cancer Health Risk Summary - Birth to 2 years**

|               |               |        |        |         |         |         |         |         |         |         |         | <i>Receptor</i> | <i>Max HI</i> |
|---------------|---------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------------|
|               |               |        |        |         |         |         |         |         |         |         |         | 174             | 0.1721        |
|               |               |        |        |         |         |         |         |         |         |         |         | 6               | 0.0019        |
| Receptor<br># | Total<br>Risk | 1A     | 1B     | 2A      | 2B      | 2C      | 3A      | 3B      | 3C      | 4       | 5       |                 |               |
| 361           | 361 0.0149    | 0.0021 | 0.0028 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.7E-04 | 1.6E-03 | 1.0E-03 | 2.0E-03 | 1.0E-03 |                 |               |
| 362           | 362 0.0150    | 0.0021 | 0.0028 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.7E-04 | 1.7E-03 | 1.0E-03 | 2.0E-03 | 1.0E-03 |                 |               |
| 363           | 363 0.0145    | 0.0021 | 0.0027 | 1.5E-03 | 1.0E-03 | 1.5E-03 | 2.6E-04 | 1.6E-03 | 9.8E-04 | 2.0E-03 | 9.8E-04 |                 |               |
| 364           | 364 0.0131    | 0.0019 | 0.0024 | 1.3E-03 | 9.0E-04 | 1.3E-03 | 2.4E-04 | 1.4E-03 | 8.9E-04 | 1.8E-03 | 8.9E-04 |                 |               |
| 365           | 365 0.0123    | 0.0017 | 0.0023 | 1.2E-03 | 8.4E-04 | 1.2E-03 | 2.2E-04 | 1.4E-03 | 8.3E-04 | 1.7E-03 | 8.3E-04 |                 |               |
| 366           | 366 0.0107    | 0.0015 | 0.0020 | 1.1E-03 | 7.3E-04 | 1.1E-03 | 1.9E-04 | 1.2E-03 | 7.3E-04 | 1.4E-03 | 7.3E-04 |                 |               |
| 367           | 367 0.0098    | 0.0014 | 0.0018 | 1.0E-03 | 6.7E-04 | 9.9E-04 | 1.8E-04 | 1.1E-03 | 6.6E-04 | 1.3E-03 | 6.6E-04 |                 |               |
| 368           | 368 0.0051    | 0.0007 | 0.0009 | 5.2E-04 | 3.5E-04 | 5.1E-04 | 9.2E-05 | 5.6E-04 | 3.4E-04 | 6.9E-04 | 3.4E-04 |                 |               |
| 369           | 369 0.0050    | 0.0007 | 0.0009 | 5.1E-04 | 3.4E-04 | 5.0E-04 | 9.0E-05 | 5.5E-04 | 3.4E-04 | 6.7E-04 | 3.4E-04 |                 |               |
| 370           | 370 0.0047    | 0.0007 | 0.0009 | 4.8E-04 | 3.2E-04 | 4.7E-04 | 8.5E-05 | 5.2E-04 | 3.2E-04 | 6.4E-04 | 3.2E-04 |                 |               |
| 371           | 371 0.0044    | 0.0006 | 0.0008 | 4.5E-04 | 3.0E-04 | 4.4E-04 | 8.0E-05 | 4.8E-04 | 3.0E-04 | 5.9E-04 | 3.0E-04 |                 |               |
| 372           | 372 0.0046    | 0.0006 | 0.0008 | 4.6E-04 | 3.1E-04 | 4.6E-04 | 8.3E-05 | 5.0E-04 | 3.1E-04 | 6.2E-04 | 3.1E-04 |                 |               |
| 373           | 373 0.0044    | 0.0006 | 0.0008 | 4.5E-04 | 3.1E-04 | 4.5E-04 | 8.1E-05 | 4.9E-04 | 3.0E-04 | 6.0E-04 | 3.0E-04 |                 |               |
| 374           | 374 0.0048    | 0.0007 | 0.0009 | 4.9E-04 | 3.3E-04 | 4.9E-04 | 8.8E-05 | 5.4E-04 | 3.3E-04 | 6.6E-04 | 3.3E-04 |                 |               |
| 375           | 375 0.0050    | 0.0007 | 0.0009 | 5.1E-04 | 3.5E-04 | 5.1E-04 | 9.2E-05 | 5.6E-04 | 3.4E-04 | 6.8E-04 | 3.4E-04 |                 |               |
| 376           | 376 0.0055    | 0.0008 | 0.0010 | 5.6E-04 | 3.8E-04 | 5.6E-04 | 1.0E-04 | 6.1E-04 | 3.7E-04 | 7.5E-04 | 3.7E-04 |                 |               |
| 377           | 377 0.0060    | 0.0008 | 0.0011 | 6.1E-04 | 4.1E-04 | 6.0E-04 | 1.1E-04 | 6.6E-04 | 4.1E-04 | 8.1E-04 | 4.1E-04 |                 |               |
| 378           | 378 0.0064    | 0.0009 | 0.0012 | 6.5E-04 | 4.4E-04 | 6.4E-04 | 1.2E-04 | 7.0E-04 | 4.3E-04 | 8.6E-04 | 4.3E-04 |                 |               |
| 379           | 379 0.0073    | 0.0010 | 0.0014 | 7.5E-04 | 5.1E-04 | 7.4E-04 | 1.3E-04 | 8.1E-04 | 5.0E-04 | 1.0E-03 | 5.0E-04 |                 |               |
| 380           | 380 0.0081    | 0.0012 | 0.0015 | 8.3E-04 | 5.6E-04 | 8.2E-04 | 1.5E-04 | 9.0E-04 | 5.5E-04 | 1.1E-03 | 5.5E-04 |                 |               |
| 381           | 381 0.0098    | 0.0014 | 0.0018 | 1.0E-03 | 6.7E-04 | 9.9E-04 | 1.8E-04 | 1.1E-03 | 6.6E-04 | 1.3E-03 | 6.6E-04 |                 |               |
| 382           | 382 0.0110    | 0.0016 | 0.0020 | 1.1E-03 | 7.6E-04 | 1.1E-03 | 2.0E-04 | 1.2E-03 | 7.5E-04 | 1.5E-03 | 7.5E-04 |                 |               |
| 383           | 383 0.0120    | 0.0017 | 0.0022 | 1.2E-03 | 8.3E-04 | 1.2E-03 | 2.2E-04 | 1.3E-03 | 8.2E-04 | 1.6E-03 | 8.2E-04 |                 |               |
| 384           | 384 0.0127    | 0.0018 | 0.0024 | 1.3E-03 | 8.7E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.6E-04 | 1.7E-03 | 8.6E-04 |                 |               |
| 385           | 385 0.0129    | 0.0018 | 0.0024 | 1.3E-03 | 8.9E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.8E-04 | 1.7E-03 | 8.8E-04 |                 |               |
| 386           | 386 0.0127    | 0.0018 | 0.0024 | 1.3E-03 | 8.7E-04 | 1.3E-03 | 2.3E-04 | 1.4E-03 | 8.6E-04 | 1.7E-03 | 8.6E-04 |                 |               |
| 387           | 387 0.0117    | 0.0017 | 0.0022 | 1.2E-03 | 8.0E-04 | 1.2E-03 | 2.1E-04 | 1.3E-03 | 7.9E-04 | 1.6E-03 | 7.9E-04 |                 |               |
| 388           | 388 0.0111    | 0.0016 | 0.0021 | 1.1E-03 | 7.6E-04 | 1.1E-03 | 2.0E-04 | 1.2E-03 | 7.5E-04 | 1.5E-03 | 7.5E-04 |                 |               |
| 389           | 389 0.0099    | 0.0014 | 0.0018 | 1.0E-03 | 6.8E-04 | 1.0E-03 | 1.8E-04 | 1.1E-03 | 6.7E-04 | 1.3E-03 | 6.7E-04 |                 |               |
| 390           | 390 0.0091    | 0.0013 | 0.0017 | 9.3E-04 | 6.3E-04 | 9.2E-04 | 1.7E-04 | 1.0E-03 | 6.2E-04 | 1.2E-03 | 6.2E-04 |                 |               |

**Risk Calculations - Birth to 2 years**  
**Construction Phase 1A**

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- (Risk/ |       |            |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|-----------------|-------|------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |            |
| 1        | 0.14257 | 0.0143 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  | <b>Max</b> |
| 2        | 0.13369 | 0.0143 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.00E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  | 6.88E-01   |
| 3        | 0.12214 | 0.0143 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.82E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 4        | 0.11318 | 0.0143 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 5        | 0.10329 | 0.0143 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.54E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 6        | 0.0959  | 0.0143 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 7        | 0.18122 | 0.0143 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.70E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 8        | 0.16599 | 0.0143 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.48E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 9        | 0.14564 | 0.0143 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 10       | 0.13566 | 0.0143 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 11       | 0.11905 | 0.0143 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.78E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 12       | 0.11174 | 0.0143 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 13       | 0.10516 | 0.0143 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 14       | 0.19891 | 0.0143 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.97E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |            |
| 15       | 0.18538 | 0.0143 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.77E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 16       | 0.16647 | 0.0143 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.48E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 17       | 0.14661 | 0.0143 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.19E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 18       | 0.13322 | 0.0143 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 19       | 0.12149 | 0.0143 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 20       | 0.11331 | 0.0143 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |            |
| 21       | 0.43801 | 0.0143 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.54E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |            |
| 22       | 0.5016  | 0.0143 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.49E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |            |
| 23       | 0.53845 | 0.0143 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.04E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |            |
| 24       | 0.55059 | 0.0143 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |            |
| 25       | 0.61064 | 0.0143 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |            |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 26       | 0.59517 | 0.0143 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 27       | 0.54814 | 0.0143 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.18E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 28       | 0.48705 | 0.0143 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.27E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 29       | 0.41251 | 0.0143 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 30       | 0.27062 | 0.0143 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.04E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 31       | 0.24985 | 0.0143 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 32       | 0.20383 | 0.0143 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.04E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 33       | 0.19347 | 0.0143 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 34       | 0.16069 | 0.0143 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |
| 35       | 0.14853 | 0.0143 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |
| 36       | 0.1328  | 0.0143 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |
| 37       | 0.12553 | 0.0143 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.01  |
| 38       | 0.59038 | 0.0143 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 39       | 0.53496 | 0.0143 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.98E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 40       | 0.57248 | 0.0143 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.54E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 41       | 0.58509 | 0.0143 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 42       | 0.61645 | 0.0143 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 43       | 0.63781 | 0.0143 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.52E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 44       | 0.60659 | 0.0143 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 45       | 0.53649 | 0.0143 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.01E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 46       | 0.4596  | 0.0143 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 47       | 0.41777 | 0.0143 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 48       | 0.3294  | 0.0143 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 49       | 0.28523 | 0.0143 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 50       | 0.25804 | 0.0143 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.85E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 51       | 0.23121 | 0.0143 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.45E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 52       | 0.18436 | 0.0143 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.01   |
| 53       | 0.16289 | 0.0143 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.01   |
| 54       | 0.14939 | 0.0143 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.01   |
| 55       | 0.15235 | 0.0143 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.27E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.01   |
| 56       | 0.55797 | 0.0143 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.04   |
| 57       | 0.56885 | 0.0143 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.49E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 58       | 0.58821 | 0.0143 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.78E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 59       | 0.68345 | 0.0143 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 60       | 0.69254 | 0.0143 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 61       | 0.73699 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 62       | 0.72167 | 0.0143 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 63       | 0.62652 | 0.0143 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.35E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 64       | 0.56525 | 0.0143 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.44E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 65       | 0.46307 | 0.0143 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.04   |
| 66       | 0.46763 | 0.0143 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.98E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.04   |
| 67       | 0.32884 | 0.0143 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 68       | 0.29277 | 0.0143 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 69       | 0.27065 | 0.0143 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.04E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 70       | 0.26125 | 0.0143 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.90E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 71       | 0.20425 | 0.0143 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 72       | 0.1906  | 0.0143 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.84E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 73       | 0.22012 | 0.0143 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.29E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 74       | 0.62675 | 0.0143 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.35E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 75       | 0.65056 | 0.0143 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 76       | 0.65456 | 0.0143 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.77E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 77       | 0.73638 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 78       | 0.8471  | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 79       | 0.88849 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 80       | 0.90496 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 81       | 0.82607 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 82       | 0.70876 | 0.0143 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 83       | 0.59652 | 0.0143 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.90E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 84       | 0.67997 | 0.0143 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 85       | 0.34615 | 0.0143 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 86       | 0.31525 | 0.0143 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.70E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 87       | 0.30195 | 0.0143 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.51E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 88       | 0.28593 | 0.0143 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.27E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 89       | 0.2696  | 0.0143 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 90       | 0.25777 | 0.0143 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.85E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 91       | 0.7657  | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 92       | 0.78216 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.17E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 93       | 0.89506 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.34E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 94       | 0.94714 | 0.0143 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.08  |
| 95       | 1.04003 | 0.0143 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.08  |
| 96       | 1.12421 | 0.0143 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.09  |
| 97       | 1.04229 | 0.0143 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.56E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.08  |
| 98       | 0.90305 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 99       | 0.88258 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 100      | 0.44117 | 0.0143 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.58E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 101      | 0.36795 | 0.0143 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.49E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 102      | 0.34454 | 0.0143 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 103      | 0.32801 | 0.0143 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.90E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 104      | 0.30575 | 0.0143 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.56E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 105      | 0.27575 | 0.0143 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 106      | 0.80913 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.07   |
| 107      | 0.83667 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.07   |
| 108      | 0.94434 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.08   |
| 109      | 0.98691 | 0.0143 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.08   |
| 110      | 1.13153 | 0.0143 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.09   |
| 111      | 1.3058  | 0.0143 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.95E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.10   |
| 112      | 1.41351 | 0.0143 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.11E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.11   |
| 113      | 1.42196 | 0.0143 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.11   |
| 114      | 1.36036 | 0.0143 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.11   |
| 115      | 0.40925 | 0.0143 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 116      | 0.39445 | 0.0143 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 117      | 0.38313 | 0.0143 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 118      | 0.33537 | 0.0143 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.01E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 119      | 0.28473 | 0.0143 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 120      | 0.92954 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.39E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.07   |
| 121      | 0.86551 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.07   |
| 122      | 0.98739 | 0.0143 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.08   |
| 123      | 1.16933 | 0.0143 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.09   |
| 124      | 1.386   | 0.0143 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.11   |
| 125      | 1.58316 | 0.0143 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.13   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 126      | 1.96907 | 0.0143 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.94E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.16  |
| 127      | 2.35262 | 0.0143 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.51E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.19  |
| 128      | 0.65638 | 0.0143 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.80E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 129      | 0.55176 | 0.0143 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 130      | 0.46604 | 0.0143 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.96E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 131      | 0.38018 | 0.0143 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 132      | 0.26126 | 0.0143 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.90E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 133      | 0.85154 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 134      | 1.07595 | 0.0143 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.09  |
| 135      | 1.3543  | 0.0143 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.11  |
| 136      | 1.57548 | 0.0143 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.35E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.13  |
| 137      | 1.93144 | 0.0143 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.16  |
| 138      | 2.71283 | 0.0143 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.05E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.22  |
| 139      | 5.71455 | 0.0143 | 8.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.53E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.46  |
| 140      | 0.67028 | 0.0143 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 141      | 0.52905 | 0.0143 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.90E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 142      | 0.43694 | 0.0143 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.52E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 143      | 0.29239 | 0.0143 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 144      | 1.25505 | 0.0143 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.10  |
| 145      | 1.65273 | 0.0143 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.47E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.13  |
| 146      | 1.98418 | 0.0143 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.96E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.16  |
| 147      | 2.64664 | 0.0143 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.95E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.21  |
| 148      | 3.89148 | 0.0143 | 5.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.81E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.31  |
| 149      | 3.51153 | 0.0143 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.24E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.28  |
| 150      | 2.03503 | 0.0143 | 2.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.04E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.16  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 151      | 1.50481 | 0.0143 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.12  |
| 152      | 1.22329 | 0.0143 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.10  |
| 153      | 0.70991 | 0.0143 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 154      | 0.58106 | 0.0143 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 155      | 0.47279 | 0.0143 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.06E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 156      | 0.40353 | 0.0143 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 157      | 3.34251 | 0.0143 | 4.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.99E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.27  |
| 158      | 3.76257 | 0.0143 | 5.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.62E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.30  |
| 159      | 4.54045 | 0.0143 | 6.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.78E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.37  |
| 160      | 2.52972 | 0.0143 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.78E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.20  |
| 161      | 1.65138 | 0.0143 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.13  |
| 162      | 1.21511 | 0.0143 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.10  |
| 163      | 0.58478 | 0.0143 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 164      | 0.51231 | 0.0143 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.65E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 165      | 0.43002 | 0.0143 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.42E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 166      | 5.34751 | 0.0143 | 7.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.98E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.43  |
| 167      | 2.93781 | 0.0143 | 4.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.38E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.24  |
| 168      | 2.01593 | 0.0143 | 2.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.01E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.16  |
| 169      | 1.42521 | 0.0143 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.13E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.11  |
| 170      | 1.08462 | 0.0143 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.09  |
| 171      | 0.68161 | 0.0143 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 172      | 0.51579 | 0.0143 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.70E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 173      | 0.42776 | 0.0143 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 174      | 8.55485 | 0.0143 | 1.2E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-04 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.69  |
| 175      | 5.40053 | 0.0143 | 7.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.06E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.43  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 176      | 3.33391 | 0.0143 | 4.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.98E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.27   |
| 177      | 2.2635  | 0.0143 | 3.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.38E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.18   |
| 178      | 1.59628 | 0.0143 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.38E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.13   |
| 179      | 1.15673 | 0.0143 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.09   |
| 180      | 0.89425 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.07   |
| 181      | 0.62061 | 0.0143 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 182      | 0.50601 | 0.0143 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.04   |
| 183      | 7.15077 | 0.0143 | 1.0E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-04 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.57   |
| 184      | 5.06388 | 0.0143 | 7.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.56E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.41   |
| 185      | 3.52857 | 0.0143 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.27E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.28   |
| 186      | 2.41297 | 0.0143 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.60E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.19   |
| 187      | 1.76478 | 0.0143 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.63E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.14   |
| 188      | 1.30975 | 0.0143 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.95E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.11   |
| 189      | 1.01047 | 0.0143 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.51E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.08   |
| 190      | 0.80384 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 191      | 8.32687 | 0.0143 | 1.2E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.24E-04 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.67   |
| 192      | 6.02533 | 0.0143 | 8.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.99E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.48   |
| 193      | 4.45973 | 0.0143 | 6.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.66E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.36   |
| 194      | 3.33262 | 0.0143 | 4.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.97E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.27   |
| 195      | 2.46305 | 0.0143 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.68E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.20   |
| 196      | 1.84191 | 0.0143 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.75E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.15   |
| 197      | 1.42077 | 0.0143 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.11   |
| 198      | 1.08702 | 0.0143 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.09   |
| 199      | 0.87584 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.07   |
| 200      | 0.72192 | 0.0143 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 201      | 3.24959 | 0.0143 | 4.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.85E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.26  |
| 202      | 4.95098 | 0.0143 | 7.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.39E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.40  |
| 203      | 5.8668  | 0.0143 | 8.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.76E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.47  |
| 204      | 6.38123 | 0.0143 | 9.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.52E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.51  |
| 205      | 5.89622 | 0.0143 | 8.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.80E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.47  |
| 206      | 4.88452 | 0.0143 | 7.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.29E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.39  |
| 207      | 3.92915 | 0.0143 | 5.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.86E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.32  |
| 208      | 3.09747 | 0.0143 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.62E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.25  |
| 209      | 2.38952 | 0.0143 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.57E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.19  |
| 210      | 1.86639 | 0.0143 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.79E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.15  |
| 211      | 1.46676 | 0.0143 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.19E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.12  |
| 212      | 1.14687 | 0.0143 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.09  |
| 213      | 0.93847 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.08  |
| 214      | 0.74904 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 215      | 0.62804 | 0.0143 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 216      | 1.51358 | 0.0143 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.26E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.12  |
| 217      | 1.75108 | 0.0143 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.61E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.14  |
| 218      | 2.40965 | 0.0143 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.60E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.19  |
| 219      | 3.09162 | 0.0143 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.61E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.25  |
| 220      | 3.64843 | 0.0143 | 5.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.44E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.29  |
| 221      | 3.87704 | 0.0143 | 5.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.79E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.31  |
| 222      | 3.7245  | 0.0143 | 5.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.56E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.30  |
| 223      | 3.25928 | 0.0143 | 4.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.86E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.26  |
| 224      | 2.72345 | 0.0143 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.06E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.22  |
| 225      | 2.20632 | 0.0143 | 3.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.29E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.18  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 226      | 1.77318 | 0.0143 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.65E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.14  |
| 227      | 1.44239 | 0.0143 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.15E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.12  |
| 228      | 1.16513 | 0.0143 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.09  |
| 229      | 0.94394 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.08  |
| 230      | 0.77791 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 231      | 0.62195 | 0.0143 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.28E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 232      | 1.05953 | 0.0143 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.09  |
| 233      | 1.11661 | 0.0143 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.09  |
| 234      | 1.47792 | 0.0143 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.12  |
| 235      | 1.89467 | 0.0143 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.83E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.15  |
| 236      | 2.31891 | 0.0143 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.46E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.19  |
| 237      | 2.71307 | 0.0143 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.05E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.22  |
| 238      | 2.76677 | 0.0143 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.13E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.22  |
| 239      | 2.56931 | 0.0143 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.83E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.21  |
| 240      | 2.2825  | 0.0143 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.18  |
| 241      | 1.93631 | 0.0143 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.16  |
| 242      | 1.63045 | 0.0143 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.43E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.13  |
| 243      | 1.35634 | 0.0143 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.11  |
| 244      | 1.13547 | 0.0143 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.09  |
| 245      | 0.91896 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 246      | 0.77965 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 247      | 0.63206 | 0.0143 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 248      | 0.86538 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 249      | 0.85659 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 250      | 1.00342 | 0.0143 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.08  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 251      | 1.28849 | 0.0143 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.10   |
| 252      | 1.63636 | 0.0143 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.44E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.13   |
| 253      | 1.90198 | 0.0143 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.84E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.15   |
| 254      | 2.02634 | 0.0143 | 2.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.16   |
| 255      | 2.01179 | 0.0143 | 2.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.00E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.16   |
| 256      | 1.88256 | 0.0143 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.81E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.15   |
| 257      | 1.68205 | 0.0143 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.51E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.14   |
| 258      | 1.46116 | 0.0143 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.18E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.12   |
| 259      | 1.25462 | 0.0143 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.10   |
| 260      | 1.07567 | 0.0143 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.09   |
| 261      | 0.89369 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.07   |
| 262      | 0.7632  | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 263      | 0.63167 | 0.0143 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 264      | 0.58009 | 0.0143 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.66E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 265      | 0.56073 | 0.0143 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 266      | 0.57902 | 0.0143 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 267      | 0.66488 | 0.0143 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 268      | 0.66061 | 0.0143 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 269      | 0.74394 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 270      | 0.92034 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.07   |
| 271      | 1.1693  | 0.0143 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.09   |
| 272      | 1.38588 | 0.0143 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.11   |
| 273      | 1.53028 | 0.0143 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.28E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.12   |
| 274      | 1.58042 | 0.0143 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.13   |
| 275      | 1.5324  | 0.0143 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.29E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.12   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 276      | 1.43091 | 0.0143 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.12  |
| 277      | 1.28867 | 0.0143 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.10  |
| 278      | 1.14049 | 0.0143 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.09  |
| 279      | 1.0007  | 0.0143 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.49E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.08  |
| 280      | 0.85395 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 281      | 0.7216  | 0.0143 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 282      | 0.60823 | 0.0143 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 283      | 0.46088 | 0.0143 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 284      | 0.44204 | 0.0143 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 285      | 0.43325 | 0.0143 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.47E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 286      | 0.45841 | 0.0143 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.84E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 287      | 0.52307 | 0.0143 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 288      | 0.56987 | 0.0143 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.50E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 289      | 0.59322 | 0.0143 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.85E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 290      | 0.71744 | 0.0143 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 291      | 0.87548 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 292      | 1.04219 | 0.0143 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.56E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.08  |
| 293      | 1.17605 | 0.0143 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.09  |
| 294      | 1.25313 | 0.0143 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.10  |
| 295      | 1.25792 | 0.0143 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.88E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.10  |
| 296      | 1.21473 | 0.0143 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.10  |
| 297      | 1.13348 | 0.0143 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.09  |
| 298      | 1.02677 | 0.0143 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.08  |
| 299      | 0.91652 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 300      | 0.80208 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 301      | 0.6609  | 0.0143 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 302      | 0.58197 | 0.0143 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 303      | 0.39159 | 0.0143 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.84E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 304      | 0.35914 | 0.0143 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 305      | 0.35529 | 0.0143 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 306      | 0.34386 | 0.0143 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 307      | 0.35356 | 0.0143 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.28E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 308      | 0.39073 | 0.0143 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.83E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 309      | 0.44141 | 0.0143 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.59E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.04   |
| 310      | 0.47846 | 0.0143 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.04   |
| 311      | 0.56418 | 0.0143 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.42E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 312      | 0.67741 | 0.0143 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 313      | 0.80426 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 314      | 0.92054 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.07   |
| 315      | 1.00261 | 0.0143 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.08   |
| 316      | 1.03928 | 0.0143 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.08   |
| 317      | 1.02828 | 0.0143 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.08   |
| 318      | 0.98264 | 0.0143 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.08   |
| 319      | 0.91474 | 0.0143 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.07   |
| 320      | 0.82666 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.07   |
| 321      | 0.74121 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 322      | 0.6153  | 0.0143 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.18E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 323      | 0.55156 | 0.0143 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.04   |
| 324      | 0.38105 | 0.0143 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 325      | 0.33126 | 0.0143 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.94E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 326      | 0.32305 | 0.0143 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.82E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 327      | 0.29252 | 0.0143 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 328      | 0.29248 | 0.0143 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 329      | 0.317   | 0.0143 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 330      | 0.33066 | 0.0143 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 331      | 0.35869 | 0.0143 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.35E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 332      | 0.40288 | 0.0143 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.01E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 333      | 0.4573  | 0.0143 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.82E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 334      | 0.53898 | 0.0143 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.04E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 335      | 0.63508 | 0.0143 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.48E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 336      | 0.73114 | 0.0143 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 337      | 0.80795 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 338      | 0.85925 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 339      | 0.87375 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 340      | 0.85425 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 341      | 0.81269 | 0.0143 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.07  |
| 342      | 0.72959 | 0.0143 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.06  |
| 343      | 0.67174 | 0.0143 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 344      | 0.57305 | 0.0143 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 345      | 0.51872 | 0.0143 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.74E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 346      | 0.29019 | 0.0143 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 347      | 0.27864 | 0.0143 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 348      | 0.26697 | 0.0143 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.98E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 349      | 0.25326 | 0.0143 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.78E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 350      | 0.25562 | 0.0143 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 351      | 0.2724  | 0.0143 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.07E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 352      | 0.28943 | 0.0143 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 353      | 0.3067  | 0.0143 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.58E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 354      | 0.33648 | 0.0143 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 355      | 0.3689  | 0.0143 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.51E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.03   |
| 356      | 0.44002 | 0.0143 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.57E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.04   |
| 357      | 0.51306 | 0.0143 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.66E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.04   |
| 358      | 0.59206 | 0.0143 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.84E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 359      | 0.66144 | 0.0143 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.87E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 360      | 0.71417 | 0.0143 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 361      | 0.73968 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 362      | 0.74345 | 0.0143 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 363      | 0.71982 | 0.0143 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.06   |
| 364      | 0.65107 | 0.0143 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 365      | 0.60983 | 0.0143 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.10E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.05   |
| 366      | 0.53056 | 0.0143 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.04   |
| 367      | 0.48574 | 0.0143 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.04   |
| 368      | 0.25159 | 0.0143 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 369      | 0.24678 | 0.0143 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 370      | 0.23335 | 0.0143 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.48E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 371      | 0.21774 | 0.0143 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 372      | 0.22662 | 0.0143 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 373      | 0.22108 | 0.0143 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 374      | 0.24111 | 0.0143 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |
| 375      | 0.25062 | 0.0143 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.74E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00     | 0.02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 376      | 0.27425 | 0.0143 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.09E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 377      | 0.29662 | 0.0143 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.02  |
| 378      | 0.31582 | 0.0143 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 379      | 0.36484 | 0.0143 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.44E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 380      | 0.40393 | 0.0143 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.03  |
| 381      | 0.48601 | 0.0143 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 382      | 0.5477  | 0.0143 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 383      | 0.59749 | 0.0143 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 384      | 0.62971 | 0.0143 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 385      | 0.64012 | 0.0143 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 386      | 0.62903 | 0.0143 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 387      | 0.5807  | 0.0143 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.05  |
| 388      | 0.55072 | 0.0143 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 389      | 0.49043 | 0.0143 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |
| 390      | 0.45288 | 0.0143 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.76E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 0.00            | 0.04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 2.04E-03 | 5   | 4.07E-04 | 2.44E-02 |
| 2  | 1.91E-03 | 5   | 3.82E-04 |          |
| 3  | 1.74E-03 | 5   | 3.49E-04 |          |
| 4  | 1.62E-03 | 5   | 3.23E-04 |          |
| 5  | 1.47E-03 | 5   | 2.95E-04 |          |
| 6  | 1.37E-03 | 5   | 2.74E-04 |          |
| 7  | 2.59E-03 | 5   | 5.18E-04 |          |
| 8  | 2.37E-03 | 5   | 4.74E-04 |          |
| 9  | 2.08E-03 | 5   | 4.16E-04 |          |
| 10 | 1.94E-03 | 5   | 3.87E-04 |          |
| 11 | 1.70E-03 | 5   | 3.40E-04 |          |
| 12 | 1.60E-03 | 5   | 3.19E-04 |          |
| 13 | 1.50E-03 | 5   | 3.00E-04 |          |
| 14 | 2.84E-03 | 5   | 5.68E-04 |          |
| 15 | 2.65E-03 | 5   | 5.29E-04 |          |
| 16 | 2.38E-03 | 5   | 4.75E-04 |          |
| 17 | 2.09E-03 | 5   | 4.19E-04 |          |
| 18 | 1.90E-03 | 5   | 3.80E-04 |          |
| 19 | 1.73E-03 | 5   | 3.47E-04 |          |
| 20 | 1.62E-03 | 5   | 3.24E-04 |          |
| 21 | 6.25E-03 | 5   | 1.25E-03 |          |
| 22 | 7.16E-03 | 5   | 1.43E-03 |          |
| 23 | 7.69E-03 | 5   | 1.54E-03 |          |
| 24 | 7.86E-03 | 5   | 1.57E-03 |          |
| 25 | 8.72E-03 | 5   | 1.74E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 8.50E-03    | 5          | 1.70E-03  |
| 27       | 7.83E-03    | 5          | 1.57E-03  |
| 28       | 6.95E-03    | 5          | 1.39E-03  |
| 29       | 5.89E-03    | 5          | 1.18E-03  |
| 30       | 3.86E-03    | 5          | 7.73E-04  |
| 31       | 3.57E-03    | 5          | 7.13E-04  |
| 32       | 2.91E-03    | 5          | 5.82E-04  |
| 33       | 2.76E-03    | 5          | 5.52E-04  |
| 34       | 2.29E-03    | 5          | 4.59E-04  |
| 35       | 2.12E-03    | 5          | 4.24E-04  |
| 36       | 1.90E-03    | 5          | 3.79E-04  |
| 37       | 1.79E-03    | 5          | 3.58E-04  |
| 38       | 8.43E-03    | 5          | 1.69E-03  |
| 39       | 7.64E-03    | 5          | 1.53E-03  |
| 40       | 8.17E-03    | 5          | 1.63E-03  |
| 41       | 8.35E-03    | 5          | 1.67E-03  |
| 42       | 8.80E-03    | 5          | 1.76E-03  |
| 43       | 9.11E-03    | 5          | 1.82E-03  |
| 44       | 8.66E-03    | 5          | 1.73E-03  |
| 45       | 7.66E-03    | 5          | 1.53E-03  |
| 46       | 6.56E-03    | 5          | 1.31E-03  |
| 47       | 5.97E-03    | 5          | 1.19E-03  |
| 48       | 4.70E-03    | 5          | 9.41E-04  |
| 49       | 4.07E-03    | 5          | 8.15E-04  |
| 50       | 3.68E-03    | 5          | 7.37E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 3.30E-03    | 5          | 6.60E-04  |
| 52       | 2.63E-03    | 5          | 5.26E-04  |
| 53       | 2.33E-03    | 5          | 4.65E-04  |
| 54       | 2.13E-03    | 5          | 4.27E-04  |
| 55       | 2.18E-03    | 5          | 4.35E-04  |
| 56       | 7.97E-03    | 5          | 1.59E-03  |
| 57       | 8.12E-03    | 5          | 1.62E-03  |
| 58       | 8.40E-03    | 5          | 1.68E-03  |
| 59       | 9.76E-03    | 5          | 1.95E-03  |
| 60       | 9.89E-03    | 5          | 1.98E-03  |
| 61       | 1.05E-02    | 5          | 2.10E-03  |
| 62       | 1.03E-02    | 5          | 2.06E-03  |
| 63       | 8.95E-03    | 5          | 1.79E-03  |
| 64       | 8.07E-03    | 5          | 1.61E-03  |
| 65       | 6.61E-03    | 5          | 1.32E-03  |
| 66       | 6.68E-03    | 5          | 1.34E-03  |
| 67       | 4.70E-03    | 5          | 9.39E-04  |
| 68       | 4.18E-03    | 5          | 8.36E-04  |
| 69       | 3.86E-03    | 5          | 7.73E-04  |
| 70       | 3.73E-03    | 5          | 7.46E-04  |
| 71       | 2.92E-03    | 5          | 5.83E-04  |
| 72       | 2.72E-03    | 5          | 5.44E-04  |
| 73       | 3.14E-03    | 5          | 6.29E-04  |
| 74       | 8.95E-03    | 5          | 1.79E-03  |
| 75       | 9.29E-03    | 5          | 1.86E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 9.35E-03    | 5          | 1.87E-03  |
| 77       | 1.05E-02    | 5          | 2.10E-03  |
| 78       | 1.21E-02    | 5          | 2.42E-03  |
| 79       | 1.27E-02    | 5          | 2.54E-03  |
| 80       | 1.29E-02    | 5          | 2.58E-03  |
| 81       | 1.18E-02    | 5          | 2.36E-03  |
| 82       | 1.01E-02    | 5          | 2.02E-03  |
| 83       | 8.52E-03    | 5          | 1.70E-03  |
| 84       | 9.71E-03    | 5          | 1.94E-03  |
| 85       | 4.94E-03    | 5          | 9.88E-04  |
| 86       | 4.50E-03    | 5          | 9.00E-04  |
| 87       | 4.31E-03    | 5          | 8.62E-04  |
| 88       | 4.08E-03    | 5          | 8.17E-04  |
| 89       | 3.85E-03    | 5          | 7.70E-04  |
| 90       | 3.68E-03    | 5          | 7.36E-04  |
| 91       | 1.09E-02    | 5          | 2.19E-03  |
| 92       | 1.12E-02    | 5          | 2.23E-03  |
| 93       | 1.28E-02    | 5          | 2.56E-03  |
| 94       | 1.35E-02    | 5          | 2.70E-03  |
| 95       | 1.48E-02    | 5          | 2.97E-03  |
| 96       | 1.61E-02    | 5          | 3.21E-03  |
| 97       | 1.49E-02    | 5          | 2.98E-03  |
| 98       | 1.29E-02    | 5          | 2.58E-03  |
| 99       | 1.26E-02    | 5          | 2.52E-03  |
| 100      | 6.30E-03    | 5          | 1.26E-03  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 101      | 5.25E-03    | 5          | 1.05E-03  |
| 102      | 4.92E-03    | 5          | 9.84E-04  |
| 103      | 4.68E-03    | 5          | 9.37E-04  |
| 104      | 4.37E-03    | 5          | 8.73E-04  |
| 105      | 3.94E-03    | 5          | 7.87E-04  |
| 106      | 1.16E-02    | 5          | 2.31E-03  |
| 107      | 1.19E-02    | 5          | 2.39E-03  |
| 108      | 1.35E-02    | 5          | 2.70E-03  |
| 109      | 1.41E-02    | 5          | 2.82E-03  |
| 110      | 1.62E-02    | 5          | 3.23E-03  |
| 111      | 1.86E-02    | 5          | 3.73E-03  |
| 112      | 2.02E-02    | 5          | 4.04E-03  |
| 113      | 2.03E-02    | 5          | 4.06E-03  |
| 114      | 1.94E-02    | 5          | 3.88E-03  |
| 115      | 5.84E-03    | 5          | 1.17E-03  |
| 116      | 5.63E-03    | 5          | 1.13E-03  |
| 117      | 5.47E-03    | 5          | 1.09E-03  |
| 118      | 4.79E-03    | 5          | 9.58E-04  |
| 119      | 4.07E-03    | 5          | 8.13E-04  |
| 120      | 1.33E-02    | 5          | 2.65E-03  |
| 121      | 1.24E-02    | 5          | 2.47E-03  |
| 122      | 1.41E-02    | 5          | 2.82E-03  |
| 123      | 1.67E-02    | 5          | 3.34E-03  |
| 124      | 1.98E-02    | 5          | 3.96E-03  |
| 125      | 2.26E-02    | 5          | 4.52E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 126      | 2.81E-02 | 5   | 5.62E-03 |
| 127      | 3.36E-02 | 5   | 6.72E-03 |
| 128      | 9.37E-03 | 5   | 1.87E-03 |
| 129      | 7.88E-03 | 5   | 1.58E-03 |
| 130      | 6.65E-03 | 5   | 1.33E-03 |
| 131      | 5.43E-03 | 5   | 1.09E-03 |
| 132      | 3.73E-03 | 5   | 7.46E-04 |
| 133      | 1.22E-02 | 5   | 2.43E-03 |
| 134      | 1.54E-02 | 5   | 3.07E-03 |
| 135      | 1.93E-02 | 5   | 3.87E-03 |
| 136      | 2.25E-02 | 5   | 4.50E-03 |
| 137      | 2.76E-02 | 5   | 5.52E-03 |
| 138      | 3.87E-02 | 5   | 7.75E-03 |
| 139      | 8.16E-02 | 5   | 1.63E-02 |
| 140      | 9.57E-03 | 5   | 1.91E-03 |
| 141      | 7.55E-03 | 5   | 1.51E-03 |
| 142      | 6.24E-03 | 5   | 1.25E-03 |
| 143      | 4.17E-03 | 5   | 8.35E-04 |
| 144      | 1.79E-02 | 5   | 3.58E-03 |
| 145      | 2.36E-02 | 5   | 4.72E-03 |
| 146      | 2.83E-02 | 5   | 5.67E-03 |
| 147      | 3.78E-02 | 5   | 7.56E-03 |
| 148      | 5.56E-02 | 5   | 1.11E-02 |
| 149      | 5.01E-02 | 5   | 1.00E-02 |
| 150      | 2.91E-02 | 5   | 5.81E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 2.15E-02 | 5   | 4.30E-03 |
| 152           | 1.75E-02 | 5   | 3.49E-03 |
| 153           | 1.01E-02 | 5   | 2.03E-03 |
| 154           | 8.30E-03 | 5   | 1.66E-03 |
| 155           | 6.75E-03 | 5   | 1.35E-03 |
| 156           | 5.76E-03 | 5   | 1.15E-03 |
| 157           | 4.77E-02 | 5   | 9.55E-03 |
| 158           | 5.37E-02 | 5   | 1.07E-02 |
| 159           | 6.48E-02 | 5   | 1.30E-02 |
| 160           | 3.61E-02 | 5   | 7.22E-03 |
| 161           | 2.36E-02 | 5   | 4.72E-03 |
| 162           | 1.73E-02 | 5   | 3.47E-03 |
| 163           | 8.35E-03 | 5   | 1.67E-03 |
| 164           | 7.31E-03 | 5   | 1.46E-03 |
| 165           | 6.14E-03 | 5   | 1.23E-03 |
| 166           | 7.64E-02 | 5   | 1.53E-02 |
| 167           | 4.19E-02 | 5   | 8.39E-03 |
| 168           | 2.88E-02 | 5   | 5.76E-03 |
| 169           | 2.03E-02 | 5   | 4.07E-03 |
| 170           | 1.55E-02 | 5   | 3.10E-03 |
| 171           | 9.73E-03 | 5   | 1.95E-03 |
| 172           | 7.36E-03 | 5   | 1.47E-03 |
| 173           | 6.11E-03 | 5   | 1.22E-03 |
| 174           | 1.22E-01 | 5   | 2.44E-02 |
| 175           | 7.71E-02 | 5   | 1.54E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 176      | 4.76E-02 | 5   | 9.52E-03 |
| 177      | 3.23E-02 | 5   | 6.46E-03 |
| 178      | 2.28E-02 | 5   | 4.56E-03 |
| 179      | 1.65E-02 | 5   | 3.30E-03 |
| 180      | 1.28E-02 | 5   | 2.55E-03 |
| 181      | 8.86E-03 | 5   | 1.77E-03 |
| 182      | 7.22E-03 | 5   | 1.44E-03 |
| 183      | 1.02E-01 | 5   | 2.04E-02 |
| 184      | 7.23E-02 | 5   | 1.45E-02 |
| 185      | 5.04E-02 | 5   | 1.01E-02 |
| 186      | 3.45E-02 | 5   | 6.89E-03 |
| 187      | 2.52E-02 | 5   | 5.04E-03 |
| 188      | 1.87E-02 | 5   | 3.74E-03 |
| 189      | 1.44E-02 | 5   | 2.89E-03 |
| 190      | 1.15E-02 | 5   | 2.30E-03 |
| 191      | 1.19E-01 | 5   | 2.38E-02 |
| 192      | 8.60E-02 | 5   | 1.72E-02 |
| 193      | 6.37E-02 | 5   | 1.27E-02 |
| 194      | 4.76E-02 | 5   | 9.52E-03 |
| 195      | 3.52E-02 | 5   | 7.03E-03 |
| 196      | 2.63E-02 | 5   | 5.26E-03 |
| 197      | 2.03E-02 | 5   | 4.06E-03 |
| 198      | 1.55E-02 | 5   | 3.10E-03 |
| 199      | 1.25E-02 | 5   | 2.50E-03 |
| 200      | 1.03E-02 | 5   | 2.06E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 201      | 4.64E-02 | 5   | 9.28E-03 |
| 202      | 7.07E-02 | 5   | 1.41E-02 |
| 203      | 8.38E-02 | 5   | 1.68E-02 |
| 204      | 9.11E-02 | 5   | 1.82E-02 |
| 205      | 8.42E-02 | 5   | 1.68E-02 |
| 206      | 6.97E-02 | 5   | 1.39E-02 |
| 207      | 5.61E-02 | 5   | 1.12E-02 |
| 208      | 4.42E-02 | 5   | 8.85E-03 |
| 209      | 3.41E-02 | 5   | 6.82E-03 |
| 210      | 2.66E-02 | 5   | 5.33E-03 |
| 211      | 2.09E-02 | 5   | 4.19E-03 |
| 212      | 1.64E-02 | 5   | 3.28E-03 |
| 213      | 1.34E-02 | 5   | 2.68E-03 |
| 214      | 1.07E-02 | 5   | 2.14E-03 |
| 215      | 8.97E-03 | 5   | 1.79E-03 |
| 216      | 2.16E-02 | 5   | 4.32E-03 |
| 217      | 2.50E-02 | 5   | 5.00E-03 |
| 218      | 3.44E-02 | 5   | 6.88E-03 |
| 219      | 4.41E-02 | 5   | 8.83E-03 |
| 220      | 5.21E-02 | 5   | 1.04E-02 |
| 221      | 5.54E-02 | 5   | 1.11E-02 |
| 222      | 5.32E-02 | 5   | 1.06E-02 |
| 223      | 4.65E-02 | 5   | 9.31E-03 |
| 224      | 3.89E-02 | 5   | 7.78E-03 |
| 225      | 3.15E-02 | 5   | 6.30E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 226      | 2.53E-02 | 5   | 5.06E-03 |
| 227      | 2.06E-02 | 5   | 4.12E-03 |
| 228      | 1.66E-02 | 5   | 3.33E-03 |
| 229      | 1.35E-02 | 5   | 2.70E-03 |
| 230      | 1.11E-02 | 5   | 2.22E-03 |
| 231      | 8.88E-03 | 5   | 1.78E-03 |
| 232      | 1.51E-02 | 5   | 3.03E-03 |
| 233      | 1.59E-02 | 5   | 3.19E-03 |
| 234      | 2.11E-02 | 5   | 4.22E-03 |
| 235      | 2.71E-02 | 5   | 5.41E-03 |
| 236      | 3.31E-02 | 5   | 6.62E-03 |
| 237      | 3.87E-02 | 5   | 7.75E-03 |
| 238      | 3.95E-02 | 5   | 7.90E-03 |
| 239      | 3.67E-02 | 5   | 7.34E-03 |
| 240      | 3.26E-02 | 5   | 6.52E-03 |
| 241      | 2.76E-02 | 5   | 5.53E-03 |
| 242      | 2.33E-02 | 5   | 4.66E-03 |
| 243      | 1.94E-02 | 5   | 3.87E-03 |
| 244      | 1.62E-02 | 5   | 3.24E-03 |
| 245      | 1.31E-02 | 5   | 2.62E-03 |
| 246      | 1.11E-02 | 5   | 2.23E-03 |
| 247      | 9.02E-03 | 5   | 1.80E-03 |
| 248      | 1.24E-02 | 5   | 2.47E-03 |
| 249      | 1.22E-02 | 5   | 2.45E-03 |
| 250      | 1.43E-02 | 5   | 2.87E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 1.84E-02 | 5   | 3.68E-03 |
| 252           | 2.34E-02 | 5   | 4.67E-03 |
| 253           | 2.72E-02 | 5   | 5.43E-03 |
| 254           | 2.89E-02 | 5   | 5.79E-03 |
| 255           | 2.87E-02 | 5   | 5.75E-03 |
| 256           | 2.69E-02 | 5   | 5.38E-03 |
| 257           | 2.40E-02 | 5   | 4.80E-03 |
| 258           | 2.09E-02 | 5   | 4.17E-03 |
| 259           | 1.79E-02 | 5   | 3.58E-03 |
| 260           | 1.54E-02 | 5   | 3.07E-03 |
| 261           | 1.28E-02 | 5   | 2.55E-03 |
| 262           | 1.09E-02 | 5   | 2.18E-03 |
| 263           | 9.02E-03 | 5   | 1.80E-03 |
| 264           | 8.28E-03 | 5   | 1.66E-03 |
| 265           | 8.01E-03 | 5   | 1.60E-03 |
| 266           | 8.27E-03 | 5   | 1.65E-03 |
| 267           | 9.49E-03 | 5   | 1.90E-03 |
| 268           | 9.43E-03 | 5   | 1.89E-03 |
| 269           | 1.06E-02 | 5   | 2.12E-03 |
| 270           | 1.31E-02 | 5   | 2.63E-03 |
| 271           | 1.67E-02 | 5   | 3.34E-03 |
| 272           | 1.98E-02 | 5   | 3.96E-03 |
| 273           | 2.18E-02 | 5   | 4.37E-03 |
| 274           | 2.26E-02 | 5   | 4.51E-03 |
| 275           | 2.19E-02 | 5   | 4.38E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 276           | 2.04E-02 | 5   | 4.09E-03 |
| 277           | 1.84E-02 | 5   | 3.68E-03 |
| 278           | 1.63E-02 | 5   | 3.26E-03 |
| 279           | 1.43E-02 | 5   | 2.86E-03 |
| 280           | 1.22E-02 | 5   | 2.44E-03 |
| 281           | 1.03E-02 | 5   | 2.06E-03 |
| 282           | 8.68E-03 | 5   | 1.74E-03 |
| 283           | 6.58E-03 | 5   | 1.32E-03 |
| 284           | 6.31E-03 | 5   | 1.26E-03 |
| 285           | 6.19E-03 | 5   | 1.24E-03 |
| 286           | 6.55E-03 | 5   | 1.31E-03 |
| 287           | 7.47E-03 | 5   | 1.49E-03 |
| 288           | 8.14E-03 | 5   | 1.63E-03 |
| 289           | 8.47E-03 | 5   | 1.69E-03 |
| 290           | 1.02E-02 | 5   | 2.05E-03 |
| 291           | 1.25E-02 | 5   | 2.50E-03 |
| 292           | 1.49E-02 | 5   | 2.98E-03 |
| 293           | 1.68E-02 | 5   | 3.36E-03 |
| 294           | 1.79E-02 | 5   | 3.58E-03 |
| 295           | 1.80E-02 | 5   | 3.59E-03 |
| 296           | 1.73E-02 | 5   | 3.47E-03 |
| 297           | 1.62E-02 | 5   | 3.24E-03 |
| 298           | 1.47E-02 | 5   | 2.93E-03 |
| 299           | 1.31E-02 | 5   | 2.62E-03 |
| 300           | 1.15E-02 | 5   | 2.29E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 9.44E-03 | 5   | 1.89E-03 |
| 302           | 8.31E-03 | 5   | 1.66E-03 |
| 303           | 5.59E-03 | 5   | 1.12E-03 |
| 304           | 5.13E-03 | 5   | 1.03E-03 |
| 305           | 5.07E-03 | 5   | 1.01E-03 |
| 306           | 4.91E-03 | 5   | 9.82E-04 |
| 307           | 5.05E-03 | 5   | 1.01E-03 |
| 308           | 5.58E-03 | 5   | 1.12E-03 |
| 309           | 6.30E-03 | 5   | 1.26E-03 |
| 310           | 6.83E-03 | 5   | 1.37E-03 |
| 311           | 8.06E-03 | 5   | 1.61E-03 |
| 312           | 9.67E-03 | 5   | 1.93E-03 |
| 313           | 1.15E-02 | 5   | 2.30E-03 |
| 314           | 1.31E-02 | 5   | 2.63E-03 |
| 315           | 1.43E-02 | 5   | 2.86E-03 |
| 316           | 1.48E-02 | 5   | 2.97E-03 |
| 317           | 1.47E-02 | 5   | 2.94E-03 |
| 318           | 1.40E-02 | 5   | 2.81E-03 |
| 319           | 1.31E-02 | 5   | 2.61E-03 |
| 320           | 1.18E-02 | 5   | 2.36E-03 |
| 321           | 1.06E-02 | 5   | 2.12E-03 |
| 322           | 8.79E-03 | 5   | 1.76E-03 |
| 323           | 7.88E-03 | 5   | 1.58E-03 |
| 324           | 5.44E-03 | 5   | 1.09E-03 |
| 325           | 4.73E-03 | 5   | 9.46E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 326      | 4.61E-03 | 5   | 9.23E-04 |
| 327      | 4.18E-03 | 5   | 8.35E-04 |
| 328      | 4.18E-03 | 5   | 8.35E-04 |
| 329      | 4.53E-03 | 5   | 9.05E-04 |
| 330      | 4.72E-03 | 5   | 9.44E-04 |
| 331      | 5.12E-03 | 5   | 1.02E-03 |
| 332      | 5.75E-03 | 5   | 1.15E-03 |
| 333      | 6.53E-03 | 5   | 1.31E-03 |
| 334      | 7.70E-03 | 5   | 1.54E-03 |
| 335      | 9.07E-03 | 5   | 1.81E-03 |
| 336      | 1.04E-02 | 5   | 2.09E-03 |
| 337      | 1.15E-02 | 5   | 2.31E-03 |
| 338      | 1.23E-02 | 5   | 2.45E-03 |
| 339      | 1.25E-02 | 5   | 2.50E-03 |
| 340      | 1.22E-02 | 5   | 2.44E-03 |
| 341      | 1.16E-02 | 5   | 2.32E-03 |
| 342      | 1.04E-02 | 5   | 2.08E-03 |
| 343      | 9.59E-03 | 5   | 1.92E-03 |
| 344      | 8.18E-03 | 5   | 1.64E-03 |
| 345      | 7.41E-03 | 5   | 1.48E-03 |
| 346      | 4.14E-03 | 5   | 8.29E-04 |
| 347      | 3.98E-03 | 5   | 7.96E-04 |
| 348      | 3.81E-03 | 5   | 7.62E-04 |
| 349      | 3.62E-03 | 5   | 7.23E-04 |
| 350      | 3.65E-03 | 5   | 7.30E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 3.89E-03 | 5   | 7.78E-04 |
| 352           | 4.13E-03 | 5   | 8.27E-04 |
| 353           | 4.38E-03 | 5   | 8.76E-04 |
| 354           | 4.80E-03 | 5   | 9.61E-04 |
| 355           | 5.27E-03 | 5   | 1.05E-03 |
| 356           | 6.28E-03 | 5   | 1.26E-03 |
| 357           | 7.33E-03 | 5   | 1.47E-03 |
| 358           | 8.45E-03 | 5   | 1.69E-03 |
| 359           | 9.44E-03 | 5   | 1.89E-03 |
| 360           | 1.02E-02 | 5   | 2.04E-03 |
| 361           | 1.06E-02 | 5   | 2.11E-03 |
| 362           | 1.06E-02 | 5   | 2.12E-03 |
| 363           | 1.03E-02 | 5   | 2.06E-03 |
| 364           | 9.30E-03 | 5   | 1.86E-03 |
| 365           | 8.71E-03 | 5   | 1.74E-03 |
| 366           | 7.58E-03 | 5   | 1.52E-03 |
| 367           | 6.94E-03 | 5   | 1.39E-03 |
| 368           | 3.59E-03 | 5   | 7.18E-04 |
| 369           | 3.52E-03 | 5   | 7.05E-04 |
| 370           | 3.33E-03 | 5   | 6.66E-04 |
| 371           | 3.11E-03 | 5   | 6.22E-04 |
| 372           | 3.24E-03 | 5   | 6.47E-04 |
| 373           | 3.16E-03 | 5   | 6.31E-04 |
| 374           | 3.44E-03 | 5   | 6.89E-04 |
| 375           | 3.58E-03 | 5   | 7.16E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1A**

***Non Cancer Risk***

| <b>Receptor</b> |             |            |           |
|-----------------|-------------|------------|-----------|
| <b>#</b>        | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
| 376             | 3.92E-03    | 5          | 7.83E-04  |
| 377             | 4.24E-03    | 5          | 8.47E-04  |
| 378             | 4.51E-03    | 5          | 9.02E-04  |
| 379             | 5.21E-03    | 5          | 1.04E-03  |
| 380             | 5.77E-03    | 5          | 1.15E-03  |
| 381             | 6.94E-03    | 5          | 1.39E-03  |
| 382             | 7.82E-03    | 5          | 1.56E-03  |
| 383             | 8.53E-03    | 5          | 1.71E-03  |
| 384             | 8.99E-03    | 5          | 1.80E-03  |
| 385             | 9.14E-03    | 5          | 1.83E-03  |
| 386             | 8.98E-03    | 5          | 1.80E-03  |
| 387             | 8.29E-03    | 5          | 1.66E-03  |
| 388             | 7.86E-03    | 5          | 1.57E-03  |
| 389             | 7.00E-03    | 5          | 1.40E-03  |
| 390             | 6.47E-03    | 5          | 1.29E-03  |

**Risk Calculations - Birth to 2 years**  
**Construction Phase 1B**

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      | RISK (0- (Risk/ |     |      |       |                 |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|-----------------|-----|------|-------|-----------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT              | FAH | 2)   | Mill) |                 |
| 1        | 0.14257 | 0.0187 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.79E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.05  | Max<br>2.70E+00 |
| 2        | 0.13369 | 0.0187 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.61E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.04  |                 |
| 3        | 0.12214 | 0.0187 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.39E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.04  |                 |
| 4        | 0.11318 | 0.0187 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.21E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.04  |                 |
| 5        | 0.10329 | 0.0187 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.02E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.03  |                 |
| 6        | 0.0959  | 0.0187 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.87E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.03  |                 |
| 7        | 0.18122 | 0.0187 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.54E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.06  |                 |
| 8        | 0.16599 | 0.0187 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.24E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.05  |                 |
| 9        | 0.14564 | 0.0187 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.85E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.05  |                 |
| 10       | 0.13566 | 0.0187 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.65E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.04  |                 |
| 11       | 0.11905 | 0.0187 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.33E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.04  |                 |
| 12       | 0.11174 | 0.0187 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.18E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.04  |                 |
| 13       | 0.10516 | 0.0187 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.06E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.03  |                 |
| 14       | 0.19891 | 0.0187 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.89E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.06  |                 |
| 15       | 0.18538 | 0.0187 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.62E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.06  |                 |
| 16       | 0.16647 | 0.0187 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.25E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.05  |                 |
| 17       | 0.14661 | 0.0187 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.87E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.05  |                 |
| 18       | 0.13322 | 0.0187 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.60E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.04  |                 |
| 19       | 0.12149 | 0.0187 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.37E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.04  |                 |
| 20       | 0.11331 | 0.0187 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.21E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.04  |                 |
| 21       | 0.43801 | 0.0187 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.56E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.14  |                 |
| 22       | 0.5016  | 0.0187 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.80E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.16  |                 |
| 23       | 0.53845 | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.05E-05 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.17  |                 |
| 24       | 0.55059 | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.08E-05 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.17  |                 |
| 25       | 0.61064 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.19E-05 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.19  |                 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 26       | 0.59517 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 27       | 0.54814 | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.17   |
| 28       | 0.48705 | 0.0187 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.52E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 29       | 0.41251 | 0.0187 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.06E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.13   |
| 30       | 0.27062 | 0.0187 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.29E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 31       | 0.24985 | 0.0187 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.88E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 32       | 0.20383 | 0.0187 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.98E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.06   |
| 33       | 0.19347 | 0.0187 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.78E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.06   |
| 34       | 0.16069 | 0.0187 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.14E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.05   |
| 35       | 0.14853 | 0.0187 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.90E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.05   |
| 36       | 0.1328  | 0.0187 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.60E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.04   |
| 37       | 0.12553 | 0.0187 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.45E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.04   |
| 38       | 0.59038 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 39       | 0.53496 | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.17   |
| 40       | 0.57248 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 41       | 0.58509 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 42       | 0.61645 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 43       | 0.63781 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 44       | 0.60659 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 45       | 0.53649 | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.17   |
| 46       | 0.4596  | 0.0187 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.98E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 47       | 0.41777 | 0.0187 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.17E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.13   |
| 48       | 0.3294  | 0.0187 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.44E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 49       | 0.28523 | 0.0187 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.57E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 50       | 0.25804 | 0.0187 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.04E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 51       | 0.23121 | 0.0187 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.52E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.07   |
| 52       | 0.18436 | 0.0187 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.60E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.06   |
| 53       | 0.16289 | 0.0187 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.18E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.05   |
| 54       | 0.14939 | 0.0187 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.92E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.05   |
| 55       | 0.15235 | 0.0187 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.98E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.05   |
| 56       | 0.55797 | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 57       | 0.56885 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 58       | 0.58821 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 59       | 0.68345 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.34E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.22   |
| 60       | 0.69254 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.22   |
| 61       | 0.73699 | 0.0187 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 62       | 0.72167 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 63       | 0.62652 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 64       | 0.56525 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 65       | 0.46307 | 0.0187 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.05E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 66       | 0.46763 | 0.0187 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.14E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 67       | 0.32884 | 0.0187 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.43E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 68       | 0.29277 | 0.0187 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.72E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 69       | 0.27065 | 0.0187 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.29E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 70       | 0.26125 | 0.0187 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.11E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 71       | 0.20425 | 0.0187 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.99E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.06   |
| 72       | 0.1906  | 0.0187 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.73E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.06   |
| 73       | 0.22012 | 0.0187 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.30E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.07   |
| 74       | 0.62675 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 75       | 0.65056 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.21   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 76       | 0.65456 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.21   |
| 77       | 0.73638 | 0.0187 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 78       | 0.8471  | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.27   |
| 79       | 0.88849 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.28   |
| 80       | 0.90496 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.77E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.29   |
| 81       | 0.82607 | 0.0187 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.26   |
| 82       | 0.70876 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.39E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.22   |
| 83       | 0.59652 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.17E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 84       | 0.67997 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.21   |
| 85       | 0.34615 | 0.0187 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.77E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 86       | 0.31525 | 0.0187 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.16E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 87       | 0.30195 | 0.0187 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.90E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 88       | 0.28593 | 0.0187 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.59E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 89       | 0.2696  | 0.0187 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.27E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 90       | 0.25777 | 0.0187 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.04E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 91       | 0.7657  | 0.0187 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.24   |
| 92       | 0.78216 | 0.0187 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.25   |
| 93       | 0.89506 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.28   |
| 94       | 0.94714 | 0.0187 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.85E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.30   |
| 95       | 1.04003 | 0.0187 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.33   |
| 96       | 1.12421 | 0.0187 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.20E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.36   |
| 97       | 1.04229 | 0.0187 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.04E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.33   |
| 98       | 0.90305 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.29   |
| 99       | 0.88258 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.28   |
| 100      | 0.44117 | 0.0187 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.62E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.14   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 101      | 0.36795 | 0.0187 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.19E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 102      | 0.34454 | 0.0187 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.73E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 103      | 0.32801 | 0.0187 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.41E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 104      | 0.30575 | 0.0187 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.98E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 105      | 0.27575 | 0.0187 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.39E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 106      | 0.80913 | 0.0187 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.26   |
| 107      | 0.83667 | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.26   |
| 108      | 0.94434 | 0.0187 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.85E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.30   |
| 109      | 0.98691 | 0.0187 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.31   |
| 110      | 1.13153 | 0.0187 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.36   |
| 111      | 1.3058  | 0.0187 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.55E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.41   |
| 112      | 1.41351 | 0.0187 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.76E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.45   |
| 113      | 1.42196 | 0.0187 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.78E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.45   |
| 114      | 1.36036 | 0.0187 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.66E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.43   |
| 115      | 0.40925 | 0.0187 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.00E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.13   |
| 116      | 0.39445 | 0.0187 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.71E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 117      | 0.38313 | 0.0187 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.49E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 118      | 0.33537 | 0.0187 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.55E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 119      | 0.28473 | 0.0187 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.56E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 120      | 0.92954 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.82E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.29   |
| 121      | 0.86551 | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.27   |
| 122      | 0.98739 | 0.0187 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.31   |
| 123      | 1.16933 | 0.0187 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.29E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.37   |
| 124      | 1.386   | 0.0187 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.71E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.44   |
| 125      | 1.58316 | 0.0187 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.09E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.50   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 126      | 1.96907 | 0.0187 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.85E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.62  |
| 127      | 2.35262 | 0.0187 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.60E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.74  |
| 128      | 0.65638 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.28E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.21  |
| 129      | 0.55176 | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.08E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.17  |
| 130      | 0.46604 | 0.0187 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.11E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.15  |
| 131      | 0.38018 | 0.0187 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.43E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.12  |
| 132      | 0.26126 | 0.0187 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.11E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.08  |
| 133      | 0.85154 | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.66E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.27  |
| 134      | 1.07595 | 0.0187 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.10E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.34  |
| 135      | 1.3543  | 0.0187 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.65E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.43  |
| 136      | 1.57548 | 0.0187 | 2.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.08E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.50  |
| 137      | 1.93144 | 0.0187 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.77E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.61  |
| 138      | 2.71283 | 0.0187 | 5.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 5.30E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.86  |
| 139      | 5.71455 | 0.0187 | 1.1E-01 | 1090 | 1 | 0.96 | 1E-06 | 1.12E-04 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 1.81  |
| 140      | 0.67028 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.31E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.21  |
| 141      | 0.52905 | 0.0187 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.03E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.17  |
| 142      | 0.43694 | 0.0187 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.54E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.14  |
| 143      | 0.29239 | 0.0187 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.71E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.09  |
| 144      | 1.25505 | 0.0187 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.45E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.40  |
| 145      | 1.65273 | 0.0187 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.23E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.52  |
| 146      | 1.98418 | 0.0187 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.88E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.63  |
| 147      | 2.64664 | 0.0187 | 4.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 5.17E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.84  |
| 148      | 3.89148 | 0.0187 | 7.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 7.61E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 1.23  |
| 149      | 3.51153 | 0.0187 | 6.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 6.86E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 1.11  |
| 150      | 2.03503 | 0.0187 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.98E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.64  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 151      | 1.50481 | 0.0187 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.94E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.48   |
| 152      | 1.22329 | 0.0187 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.39E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.39   |
| 153      | 0.70991 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.39E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.22   |
| 154      | 0.58106 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 155      | 0.47279 | 0.0187 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.24E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 156      | 0.40353 | 0.0187 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.89E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.13   |
| 157      | 3.34251 | 0.0187 | 6.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.53E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.06   |
| 158      | 3.76257 | 0.0187 | 7.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.35E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.19   |
| 159      | 4.54045 | 0.0187 | 8.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.87E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.43   |
| 160      | 2.52972 | 0.0187 | 4.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.94E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.80   |
| 161      | 1.65138 | 0.0187 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.23E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.52   |
| 162      | 1.21511 | 0.0187 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.38   |
| 163      | 0.58478 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 164      | 0.51231 | 0.0187 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.16   |
| 165      | 0.43002 | 0.0187 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.40E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.14   |
| 166      | 5.34751 | 0.0187 | 1.0E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-04 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.69   |
| 167      | 2.93781 | 0.0187 | 5.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.74E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.93   |
| 168      | 2.01593 | 0.0187 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.94E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.64   |
| 169      | 1.42521 | 0.0187 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.79E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.45   |
| 170      | 1.08462 | 0.0187 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.34   |
| 171      | 0.68161 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.22   |
| 172      | 0.51579 | 0.0187 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.16   |
| 173      | 0.42776 | 0.0187 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.36E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.14   |
| 174      | 8.55485 | 0.0187 | 1.6E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-04 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 2.70   |
| 175      | 5.40053 | 0.0187 | 1.0E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-04 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.71   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 176      | 3.33391 | 0.0187 | 6.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.52E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.05   |
| 177      | 2.2635  | 0.0187 | 4.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.42E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.72   |
| 178      | 1.59628 | 0.0187 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.12E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.50   |
| 179      | 1.15673 | 0.0187 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.26E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.37   |
| 180      | 0.89425 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.28   |
| 181      | 0.62061 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 182      | 0.50601 | 0.0187 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.89E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.16   |
| 183      | 7.15077 | 0.0187 | 1.3E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-04 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 2.26   |
| 184      | 5.06388 | 0.0187 | 9.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.90E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.60   |
| 185      | 3.52857 | 0.0187 | 6.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.90E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.11   |
| 186      | 2.41297 | 0.0187 | 4.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.72E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.76   |
| 187      | 1.76478 | 0.0187 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.45E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.56   |
| 188      | 1.30975 | 0.0187 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.41   |
| 189      | 1.01047 | 0.0187 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.97E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.32   |
| 190      | 0.80384 | 0.0187 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.25   |
| 191      | 8.32687 | 0.0187 | 1.6E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-04 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 2.63   |
| 192      | 6.02533 | 0.0187 | 1.1E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-04 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.90   |
| 193      | 4.45973 | 0.0187 | 8.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.72E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.41   |
| 194      | 3.33262 | 0.0187 | 6.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.51E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.05   |
| 195      | 2.46305 | 0.0187 | 4.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.81E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.78   |
| 196      | 1.84191 | 0.0187 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.60E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.58   |
| 197      | 1.42077 | 0.0187 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.78E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.45   |
| 198      | 1.08702 | 0.0187 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.34   |
| 199      | 0.87584 | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.28   |
| 200      | 0.72192 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 201      | 3.24959 | 0.0187 | 6.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.35E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.03   |
| 202      | 4.95098 | 0.0187 | 9.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.68E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.56   |
| 203      | 5.8668  | 0.0187 | 1.1E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-04 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.85   |
| 204      | 6.38123 | 0.0187 | 1.2E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-04 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 2.02   |
| 205      | 5.89622 | 0.0187 | 1.1E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-04 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.86   |
| 206      | 4.88452 | 0.0187 | 9.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.55E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.54   |
| 207      | 3.92915 | 0.0187 | 7.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.68E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.24   |
| 208      | 3.09747 | 0.0187 | 5.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.05E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.98   |
| 209      | 2.38952 | 0.0187 | 4.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.67E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.75   |
| 210      | 1.86639 | 0.0187 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.65E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.59   |
| 211      | 1.46676 | 0.0187 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.87E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.46   |
| 212      | 1.14687 | 0.0187 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.24E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.36   |
| 213      | 0.93847 | 0.0187 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.30   |
| 214      | 0.74904 | 0.0187 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.24   |
| 215      | 0.62804 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 216      | 1.51358 | 0.0187 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.96E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.48   |
| 217      | 1.75108 | 0.0187 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.42E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.55   |
| 218      | 2.40965 | 0.0187 | 4.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.71E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.76   |
| 219      | 3.09162 | 0.0187 | 5.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.04E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.98   |
| 220      | 3.64843 | 0.0187 | 6.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.13E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.15   |
| 221      | 3.87704 | 0.0187 | 7.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.58E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.22   |
| 222      | 3.7245  | 0.0187 | 7.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.28E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.18   |
| 223      | 3.25928 | 0.0187 | 6.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.37E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 1.03   |
| 224      | 2.72345 | 0.0187 | 5.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.32E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.86   |
| 225      | 2.20632 | 0.0187 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.31E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.70   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 226      | 1.77318 | 0.0187 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.47E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.56   |
| 227      | 1.44239 | 0.0187 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.82E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.46   |
| 228      | 1.16513 | 0.0187 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.28E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.37   |
| 229      | 0.94394 | 0.0187 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.30   |
| 230      | 0.77791 | 0.0187 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.52E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.25   |
| 231      | 0.62195 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 232      | 1.05953 | 0.0187 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.07E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.33   |
| 233      | 1.11661 | 0.0187 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.18E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.35   |
| 234      | 1.47792 | 0.0187 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.47   |
| 235      | 1.89467 | 0.0187 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.70E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.60   |
| 236      | 2.31891 | 0.0187 | 4.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.53E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.73   |
| 237      | 2.71307 | 0.0187 | 5.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.30E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.86   |
| 238      | 2.76677 | 0.0187 | 5.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.41E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.87   |
| 239      | 2.56931 | 0.0187 | 4.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.02E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.81   |
| 240      | 2.2825  | 0.0187 | 4.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.46E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.72   |
| 241      | 1.93631 | 0.0187 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.78E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.61   |
| 242      | 1.63045 | 0.0187 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.19E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.52   |
| 243      | 1.35634 | 0.0187 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.65E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.43   |
| 244      | 1.13547 | 0.0187 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.22E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.36   |
| 245      | 0.91896 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.80E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.29   |
| 246      | 0.77965 | 0.0187 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.52E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.25   |
| 247      | 0.63206 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.24E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 248      | 0.86538 | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.27   |
| 249      | 0.85659 | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.27   |
| 250      | 1.00342 | 0.0187 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.32   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 251      | 1.28849 | 0.0187 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.52E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.41   |
| 252      | 1.63636 | 0.0187 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.20E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.52   |
| 253      | 1.90198 | 0.0187 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.72E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.60   |
| 254      | 2.02634 | 0.0187 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.96E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.64   |
| 255      | 2.01179 | 0.0187 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.93E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.64   |
| 256      | 1.88256 | 0.0187 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.68E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.59   |
| 257      | 1.68205 | 0.0187 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.29E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.53   |
| 258      | 1.46116 | 0.0187 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.86E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.46   |
| 259      | 1.25462 | 0.0187 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.45E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.40   |
| 260      | 1.07567 | 0.0187 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.10E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.34   |
| 261      | 0.89369 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.28   |
| 262      | 0.7632  | 0.0187 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.49E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.24   |
| 263      | 0.63167 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 264      | 0.58009 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 265      | 0.56073 | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 266      | 0.57902 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 267      | 0.66488 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.21   |
| 268      | 0.66061 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.21   |
| 269      | 0.74394 | 0.0187 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.45E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.24   |
| 270      | 0.92034 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.80E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.29   |
| 271      | 1.1693  | 0.0187 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.29E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.37   |
| 272      | 1.38588 | 0.0187 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.71E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.44   |
| 273      | 1.53028 | 0.0187 | 2.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.99E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.48   |
| 274      | 1.58042 | 0.0187 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.09E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.50   |
| 275      | 1.5324  | 0.0187 | 2.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.00E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.48   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 276      | 1.43091 | 0.0187 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.45   |
| 277      | 1.28867 | 0.0187 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.52E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.41   |
| 278      | 1.14049 | 0.0187 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.23E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.36   |
| 279      | 1.0007  | 0.0187 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.32   |
| 280      | 0.85395 | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.27   |
| 281      | 0.7216  | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 282      | 0.60823 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 283      | 0.46088 | 0.0187 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.01E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 284      | 0.44204 | 0.0187 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.64E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.14   |
| 285      | 0.43325 | 0.0187 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.47E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.14   |
| 286      | 0.45841 | 0.0187 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.96E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.14   |
| 287      | 0.52307 | 0.0187 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.17   |
| 288      | 0.56987 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 289      | 0.59322 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 290      | 0.71744 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 291      | 0.87548 | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.28   |
| 292      | 1.04219 | 0.0187 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.04E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.33   |
| 293      | 1.17605 | 0.0187 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.30E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.37   |
| 294      | 1.25313 | 0.0187 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.45E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.40   |
| 295      | 1.25792 | 0.0187 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.40   |
| 296      | 1.21473 | 0.0187 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.38   |
| 297      | 1.13348 | 0.0187 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.22E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.36   |
| 298      | 1.02677 | 0.0187 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.01E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.32   |
| 299      | 0.91652 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.29   |
| 300      | 0.80208 | 0.0187 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.25   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 301      | 0.6609  | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.21   |
| 302      | 0.58197 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 303      | 0.39159 | 0.0187 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.65E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 304      | 0.35914 | 0.0187 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.02E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 305      | 0.35529 | 0.0187 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.94E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 306      | 0.34386 | 0.0187 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.72E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 307      | 0.35356 | 0.0187 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.91E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 308      | 0.39073 | 0.0187 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.64E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 309      | 0.44141 | 0.0187 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.63E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.14   |
| 310      | 0.47846 | 0.0187 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.35E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 311      | 0.56418 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 312      | 0.67741 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.21   |
| 313      | 0.80426 | 0.0187 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.25   |
| 314      | 0.92054 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.80E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.29   |
| 315      | 1.00261 | 0.0187 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.32   |
| 316      | 1.03928 | 0.0187 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.33   |
| 317      | 1.02828 | 0.0187 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.01E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.32   |
| 318      | 0.98264 | 0.0187 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.31   |
| 319      | 0.91474 | 0.0187 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.29   |
| 320      | 0.82666 | 0.0187 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.26   |
| 321      | 0.74121 | 0.0187 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.45E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 322      | 0.6153  | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 323      | 0.55156 | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.17   |
| 324      | 0.38105 | 0.0187 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.45E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 325      | 0.33126 | 0.0187 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.47E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 326      | 0.32305 | 0.0187 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.31E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 327      | 0.29252 | 0.0187 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.72E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 328      | 0.29248 | 0.0187 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.72E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 329      | 0.317   | 0.0187 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.20E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 330      | 0.33066 | 0.0187 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.46E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 331      | 0.35869 | 0.0187 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.01E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 332      | 0.40288 | 0.0187 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.87E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.13   |
| 333      | 0.4573  | 0.0187 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.94E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.14   |
| 334      | 0.53898 | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.17   |
| 335      | 0.63508 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.24E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 336      | 0.73114 | 0.0187 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.43E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 337      | 0.80795 | 0.0187 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.26   |
| 338      | 0.85925 | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.27   |
| 339      | 0.87375 | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.28   |
| 340      | 0.85425 | 0.0187 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.27   |
| 341      | 0.81269 | 0.0187 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.59E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.26   |
| 342      | 0.72959 | 0.0187 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.43E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 343      | 0.67174 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.21   |
| 344      | 0.57305 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 345      | 0.51872 | 0.0187 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.16   |
| 346      | 0.29019 | 0.0187 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.67E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 347      | 0.27864 | 0.0187 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.45E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 348      | 0.26697 | 0.0187 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.22E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 349      | 0.25326 | 0.0187 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.95E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 350      | 0.25562 | 0.0187 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.00E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 351      | 0.2724  | 0.0187 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.32E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 352      | 0.28943 | 0.0187 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.66E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 353      | 0.3067  | 0.0187 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.99E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 354      | 0.33648 | 0.0187 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.58E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 355      | 0.3689  | 0.0187 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.21E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 356      | 0.44002 | 0.0187 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.60E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.14   |
| 357      | 0.51306 | 0.0187 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.16   |
| 358      | 0.59206 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 359      | 0.66144 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.21   |
| 360      | 0.71417 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 361      | 0.73968 | 0.0187 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.45E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 362      | 0.74345 | 0.0187 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.45E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 363      | 0.71982 | 0.0187 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.23   |
| 364      | 0.65107 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.21   |
| 365      | 0.60983 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 366      | 0.53056 | 0.0187 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.17   |
| 367      | 0.48574 | 0.0187 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.49E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 368      | 0.25159 | 0.0187 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.92E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 369      | 0.24678 | 0.0187 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.82E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 370      | 0.23335 | 0.0187 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.56E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.07   |
| 371      | 0.21774 | 0.0187 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.26E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.07   |
| 372      | 0.22662 | 0.0187 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.43E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.07   |
| 373      | 0.22108 | 0.0187 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.32E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.07   |
| 374      | 0.24111 | 0.0187 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.71E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 375      | 0.25062 | 0.0187 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.90E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 376      | 0.27425 | 0.0187 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.36E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 377      | 0.29662 | 0.0187 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.80E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 378      | 0.31582 | 0.0187 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.17E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 379      | 0.36484 | 0.0187 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.13E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 380      | 0.40393 | 0.0187 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.89E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.13   |
| 381      | 0.48601 | 0.0187 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.50E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 382      | 0.5477  | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.17   |
| 383      | 0.59749 | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.17E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.19   |
| 384      | 0.62971 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 385      | 0.64012 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 386      | 0.62903 | 0.0187 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 387      | 0.5807  | 0.0187 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 388      | 0.55072 | 0.0187 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.17   |
| 389      | 0.49043 | 0.0187 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.59E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 390      | 0.45288 | 0.0187 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.85E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.14   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 2.67E-03 | 5   | 5.33E-04 | 3.20E-02 |
| 2  | 2.50E-03 | 5   | 5.00E-04 |          |
| 3  | 2.28E-03 | 5   | 4.57E-04 |          |
| 4  | 2.12E-03 | 5   | 4.23E-04 |          |
| 5  | 1.93E-03 | 5   | 3.86E-04 |          |
| 6  | 1.79E-03 | 5   | 3.59E-04 |          |
| 7  | 3.39E-03 | 5   | 6.78E-04 |          |
| 8  | 3.10E-03 | 5   | 6.21E-04 |          |
| 9  | 2.72E-03 | 5   | 5.45E-04 |          |
| 10 | 2.54E-03 | 5   | 5.07E-04 |          |
| 11 | 2.23E-03 | 5   | 4.45E-04 |          |
| 12 | 2.09E-03 | 5   | 4.18E-04 |          |
| 13 | 1.97E-03 | 5   | 3.93E-04 |          |
| 14 | 3.72E-03 | 5   | 7.44E-04 |          |
| 15 | 3.47E-03 | 5   | 6.93E-04 |          |
| 16 | 3.11E-03 | 5   | 6.23E-04 |          |
| 17 | 2.74E-03 | 5   | 5.48E-04 |          |
| 18 | 2.49E-03 | 5   | 4.98E-04 |          |
| 19 | 2.27E-03 | 5   | 4.54E-04 |          |
| 20 | 2.12E-03 | 5   | 4.24E-04 |          |
| 21 | 8.19E-03 | 5   | 1.64E-03 |          |
| 22 | 9.38E-03 | 5   | 1.88E-03 |          |
| 23 | 1.01E-02 | 5   | 2.01E-03 |          |
| 24 | 1.03E-02 | 5   | 2.06E-03 |          |
| 25 | 1.14E-02 | 5   | 2.28E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 1.11E-02    | 5          | 2.23E-03  |
| 27       | 1.02E-02    | 5          | 2.05E-03  |
| 28       | 9.11E-03    | 5          | 1.82E-03  |
| 29       | 7.71E-03    | 5          | 1.54E-03  |
| 30       | 5.06E-03    | 5          | 1.01E-03  |
| 31       | 4.67E-03    | 5          | 9.34E-04  |
| 32       | 3.81E-03    | 5          | 7.62E-04  |
| 33       | 3.62E-03    | 5          | 7.24E-04  |
| 34       | 3.00E-03    | 5          | 6.01E-04  |
| 35       | 2.78E-03    | 5          | 5.55E-04  |
| 36       | 2.48E-03    | 5          | 4.97E-04  |
| 37       | 2.35E-03    | 5          | 4.69E-04  |
| 38       | 1.10E-02    | 5          | 2.21E-03  |
| 39       | 1.00E-02    | 5          | 2.00E-03  |
| 40       | 1.07E-02    | 5          | 2.14E-03  |
| 41       | 1.09E-02    | 5          | 2.19E-03  |
| 42       | 1.15E-02    | 5          | 2.31E-03  |
| 43       | 1.19E-02    | 5          | 2.39E-03  |
| 44       | 1.13E-02    | 5          | 2.27E-03  |
| 45       | 1.00E-02    | 5          | 2.01E-03  |
| 46       | 8.59E-03    | 5          | 1.72E-03  |
| 47       | 7.81E-03    | 5          | 1.56E-03  |
| 48       | 6.16E-03    | 5          | 1.23E-03  |
| 49       | 5.33E-03    | 5          | 1.07E-03  |
| 50       | 4.83E-03    | 5          | 9.65E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 4.32E-03    | 5          | 8.65E-04  |
| 52       | 3.45E-03    | 5          | 6.89E-04  |
| 53       | 3.05E-03    | 5          | 6.09E-04  |
| 54       | 2.79E-03    | 5          | 5.59E-04  |
| 55       | 2.85E-03    | 5          | 5.70E-04  |
| 56       | 1.04E-02    | 5          | 2.09E-03  |
| 57       | 1.06E-02    | 5          | 2.13E-03  |
| 58       | 1.10E-02    | 5          | 2.20E-03  |
| 59       | 1.28E-02    | 5          | 2.56E-03  |
| 60       | 1.30E-02    | 5          | 2.59E-03  |
| 61       | 1.38E-02    | 5          | 2.76E-03  |
| 62       | 1.35E-02    | 5          | 2.70E-03  |
| 63       | 1.17E-02    | 5          | 2.34E-03  |
| 64       | 1.06E-02    | 5          | 2.11E-03  |
| 65       | 8.66E-03    | 5          | 1.73E-03  |
| 66       | 8.74E-03    | 5          | 1.75E-03  |
| 67       | 6.15E-03    | 5          | 1.23E-03  |
| 68       | 5.47E-03    | 5          | 1.09E-03  |
| 69       | 5.06E-03    | 5          | 1.01E-03  |
| 70       | 4.89E-03    | 5          | 9.77E-04  |
| 71       | 3.82E-03    | 5          | 7.64E-04  |
| 72       | 3.56E-03    | 5          | 7.13E-04  |
| 73       | 4.12E-03    | 5          | 8.23E-04  |
| 74       | 1.17E-02    | 5          | 2.34E-03  |
| 75       | 1.22E-02    | 5          | 2.43E-03  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 1.22E-02    | 5          | 2.45E-03  |
| 77       | 1.38E-02    | 5          | 2.75E-03  |
| 78       | 1.58E-02    | 5          | 3.17E-03  |
| 79       | 1.66E-02    | 5          | 3.32E-03  |
| 80       | 1.69E-02    | 5          | 3.38E-03  |
| 81       | 1.54E-02    | 5          | 3.09E-03  |
| 82       | 1.33E-02    | 5          | 2.65E-03  |
| 83       | 1.12E-02    | 5          | 2.23E-03  |
| 84       | 1.27E-02    | 5          | 2.54E-03  |
| 85       | 6.47E-03    | 5          | 1.29E-03  |
| 86       | 5.90E-03    | 5          | 1.18E-03  |
| 87       | 5.65E-03    | 5          | 1.13E-03  |
| 88       | 5.35E-03    | 5          | 1.07E-03  |
| 89       | 5.04E-03    | 5          | 1.01E-03  |
| 90       | 4.82E-03    | 5          | 9.64E-04  |
| 91       | 1.43E-02    | 5          | 2.86E-03  |
| 92       | 1.46E-02    | 5          | 2.93E-03  |
| 93       | 1.67E-02    | 5          | 3.35E-03  |
| 94       | 1.77E-02    | 5          | 3.54E-03  |
| 95       | 1.94E-02    | 5          | 3.89E-03  |
| 96       | 2.10E-02    | 5          | 4.20E-03  |
| 97       | 1.95E-02    | 5          | 3.90E-03  |
| 98       | 1.69E-02    | 5          | 3.38E-03  |
| 99       | 1.65E-02    | 5          | 3.30E-03  |
| 100      | 8.25E-03    | 5          | 1.65E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 6.88E-03 | 5   | 1.38E-03 |
| 102           | 6.44E-03 | 5   | 1.29E-03 |
| 103           | 6.13E-03 | 5   | 1.23E-03 |
| 104           | 5.72E-03 | 5   | 1.14E-03 |
| 105           | 5.16E-03 | 5   | 1.03E-03 |
| 106           | 1.51E-02 | 5   | 3.03E-03 |
| 107           | 1.56E-02 | 5   | 3.13E-03 |
| 108           | 1.77E-02 | 5   | 3.53E-03 |
| 109           | 1.85E-02 | 5   | 3.69E-03 |
| 110           | 2.12E-02 | 5   | 4.23E-03 |
| 111           | 2.44E-02 | 5   | 4.88E-03 |
| 112           | 2.64E-02 | 5   | 5.29E-03 |
| 113           | 2.66E-02 | 5   | 5.32E-03 |
| 114           | 2.54E-02 | 5   | 5.09E-03 |
| 115           | 7.65E-03 | 5   | 1.53E-03 |
| 116           | 7.38E-03 | 5   | 1.48E-03 |
| 117           | 7.16E-03 | 5   | 1.43E-03 |
| 118           | 6.27E-03 | 5   | 1.25E-03 |
| 119           | 5.32E-03 | 5   | 1.06E-03 |
| 120           | 1.74E-02 | 5   | 3.48E-03 |
| 121           | 1.62E-02 | 5   | 3.24E-03 |
| 122           | 1.85E-02 | 5   | 3.69E-03 |
| 123           | 2.19E-02 | 5   | 4.37E-03 |
| 124           | 2.59E-02 | 5   | 5.18E-03 |
| 125           | 2.96E-02 | 5   | 5.92E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 126      | 3.68E-02 | 5   | 7.36E-03 |
| 127      | 4.40E-02 | 5   | 8.80E-03 |
| 128      | 1.23E-02 | 5   | 2.45E-03 |
| 129      | 1.03E-02 | 5   | 2.06E-03 |
| 130      | 8.71E-03 | 5   | 1.74E-03 |
| 131      | 7.11E-03 | 5   | 1.42E-03 |
| 132      | 4.89E-03 | 5   | 9.77E-04 |
| 133      | 1.59E-02 | 5   | 3.18E-03 |
| 134      | 2.01E-02 | 5   | 4.02E-03 |
| 135      | 2.53E-02 | 5   | 5.06E-03 |
| 136      | 2.95E-02 | 5   | 5.89E-03 |
| 137      | 3.61E-02 | 5   | 7.22E-03 |
| 138      | 5.07E-02 | 5   | 1.01E-02 |
| 139      | 1.07E-01 | 5   | 2.14E-02 |
| 140      | 1.25E-02 | 5   | 2.51E-03 |
| 141      | 9.89E-03 | 5   | 1.98E-03 |
| 142      | 8.17E-03 | 5   | 1.63E-03 |
| 143      | 5.47E-03 | 5   | 1.09E-03 |
| 144      | 2.35E-02 | 5   | 4.69E-03 |
| 145      | 3.09E-02 | 5   | 6.18E-03 |
| 146      | 3.71E-02 | 5   | 7.42E-03 |
| 147      | 4.95E-02 | 5   | 9.90E-03 |
| 148      | 7.28E-02 | 5   | 1.46E-02 |
| 149      | 6.57E-02 | 5   | 1.31E-02 |
| 150      | 3.81E-02 | 5   | 7.61E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 2.81E-02 | 5   | 5.63E-03 |
| 152           | 2.29E-02 | 5   | 4.57E-03 |
| 153           | 1.33E-02 | 5   | 2.65E-03 |
| 154           | 1.09E-02 | 5   | 2.17E-03 |
| 155           | 8.84E-03 | 5   | 1.77E-03 |
| 156           | 7.55E-03 | 5   | 1.51E-03 |
| 157           | 6.25E-02 | 5   | 1.25E-02 |
| 158           | 7.04E-02 | 5   | 1.41E-02 |
| 159           | 8.49E-02 | 5   | 1.70E-02 |
| 160           | 4.73E-02 | 5   | 9.46E-03 |
| 161           | 3.09E-02 | 5   | 6.18E-03 |
| 162           | 2.27E-02 | 5   | 4.54E-03 |
| 163           | 1.09E-02 | 5   | 2.19E-03 |
| 164           | 9.58E-03 | 5   | 1.92E-03 |
| 165           | 8.04E-03 | 5   | 1.61E-03 |
| 166           | 1.00E-01 | 5   | 2.00E-02 |
| 167           | 5.49E-02 | 5   | 1.10E-02 |
| 168           | 3.77E-02 | 5   | 7.54E-03 |
| 169           | 2.67E-02 | 5   | 5.33E-03 |
| 170           | 2.03E-02 | 5   | 4.06E-03 |
| 171           | 1.27E-02 | 5   | 2.55E-03 |
| 172           | 9.65E-03 | 5   | 1.93E-03 |
| 173           | 8.00E-03 | 5   | 1.60E-03 |
| 174           | 1.60E-01 | 5   | 3.20E-02 |
| 175           | 1.01E-01 | 5   | 2.02E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 6.23E-02 | 5   | 1.25E-02 |
| 177           | 4.23E-02 | 5   | 8.47E-03 |
| 178           | 2.98E-02 | 5   | 5.97E-03 |
| 179           | 2.16E-02 | 5   | 4.33E-03 |
| 180           | 1.67E-02 | 5   | 3.34E-03 |
| 181           | 1.16E-02 | 5   | 2.32E-03 |
| 182           | 9.46E-03 | 5   | 1.89E-03 |
| 183           | 1.34E-01 | 5   | 2.67E-02 |
| 184           | 9.47E-02 | 5   | 1.89E-02 |
| 185           | 6.60E-02 | 5   | 1.32E-02 |
| 186           | 4.51E-02 | 5   | 9.02E-03 |
| 187           | 3.30E-02 | 5   | 6.60E-03 |
| 188           | 2.45E-02 | 5   | 4.90E-03 |
| 189           | 1.89E-02 | 5   | 3.78E-03 |
| 190           | 1.50E-02 | 5   | 3.01E-03 |
| 191           | 1.56E-01 | 5   | 3.11E-02 |
| 192           | 1.13E-01 | 5   | 2.25E-02 |
| 193           | 8.34E-02 | 5   | 1.67E-02 |
| 194           | 6.23E-02 | 5   | 1.25E-02 |
| 195           | 4.61E-02 | 5   | 9.21E-03 |
| 196           | 3.44E-02 | 5   | 6.89E-03 |
| 197           | 2.66E-02 | 5   | 5.31E-03 |
| 198           | 2.03E-02 | 5   | 4.07E-03 |
| 199           | 1.64E-02 | 5   | 3.28E-03 |
| 200           | 1.35E-02 | 5   | 2.70E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 201           | 6.08E-02 | 5   | 1.22E-02 |
| 202           | 9.26E-02 | 5   | 1.85E-02 |
| 203           | 1.10E-01 | 5   | 2.19E-02 |
| 204           | 1.19E-01 | 5   | 2.39E-02 |
| 205           | 1.10E-01 | 5   | 2.21E-02 |
| 206           | 9.13E-02 | 5   | 1.83E-02 |
| 207           | 7.35E-02 | 5   | 1.47E-02 |
| 208           | 5.79E-02 | 5   | 1.16E-02 |
| 209           | 4.47E-02 | 5   | 8.94E-03 |
| 210           | 3.49E-02 | 5   | 6.98E-03 |
| 211           | 2.74E-02 | 5   | 5.49E-03 |
| 212           | 2.14E-02 | 5   | 4.29E-03 |
| 213           | 1.75E-02 | 5   | 3.51E-03 |
| 214           | 1.40E-02 | 5   | 2.80E-03 |
| 215           | 1.17E-02 | 5   | 2.35E-03 |
| 216           | 2.83E-02 | 5   | 5.66E-03 |
| 217           | 3.27E-02 | 5   | 6.55E-03 |
| 218           | 4.51E-02 | 5   | 9.01E-03 |
| 219           | 5.78E-02 | 5   | 1.16E-02 |
| 220           | 6.82E-02 | 5   | 1.36E-02 |
| 221           | 7.25E-02 | 5   | 1.45E-02 |
| 222           | 6.96E-02 | 5   | 1.39E-02 |
| 223           | 6.09E-02 | 5   | 1.22E-02 |
| 224           | 5.09E-02 | 5   | 1.02E-02 |
| 225           | 4.13E-02 | 5   | 8.25E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 226      | 3.32E-02 | 5   | 6.63E-03 |
| 227      | 2.70E-02 | 5   | 5.39E-03 |
| 228      | 2.18E-02 | 5   | 4.36E-03 |
| 229      | 1.77E-02 | 5   | 3.53E-03 |
| 230      | 1.45E-02 | 5   | 2.91E-03 |
| 231      | 1.16E-02 | 5   | 2.33E-03 |
| 232      | 1.98E-02 | 5   | 3.96E-03 |
| 233      | 2.09E-02 | 5   | 4.18E-03 |
| 234      | 2.76E-02 | 5   | 5.53E-03 |
| 235      | 3.54E-02 | 5   | 7.09E-03 |
| 236      | 4.34E-02 | 5   | 8.67E-03 |
| 237      | 5.07E-02 | 5   | 1.01E-02 |
| 238      | 5.17E-02 | 5   | 1.03E-02 |
| 239      | 4.80E-02 | 5   | 9.61E-03 |
| 240      | 4.27E-02 | 5   | 8.54E-03 |
| 241      | 3.62E-02 | 5   | 7.24E-03 |
| 242      | 3.05E-02 | 5   | 6.10E-03 |
| 243      | 2.54E-02 | 5   | 5.07E-03 |
| 244      | 2.12E-02 | 5   | 4.25E-03 |
| 245      | 1.72E-02 | 5   | 3.44E-03 |
| 246      | 1.46E-02 | 5   | 2.92E-03 |
| 247      | 1.18E-02 | 5   | 2.36E-03 |
| 248      | 1.62E-02 | 5   | 3.24E-03 |
| 249      | 1.60E-02 | 5   | 3.20E-03 |
| 250      | 1.88E-02 | 5   | 3.75E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 2.41E-02 | 5   | 4.82E-03 |
| 252           | 3.06E-02 | 5   | 6.12E-03 |
| 253           | 3.56E-02 | 5   | 7.11E-03 |
| 254           | 3.79E-02 | 5   | 7.58E-03 |
| 255           | 3.76E-02 | 5   | 7.52E-03 |
| 256           | 3.52E-02 | 5   | 7.04E-03 |
| 257           | 3.15E-02 | 5   | 6.29E-03 |
| 258           | 2.73E-02 | 5   | 5.46E-03 |
| 259           | 2.35E-02 | 5   | 4.69E-03 |
| 260           | 2.01E-02 | 5   | 4.02E-03 |
| 261           | 1.67E-02 | 5   | 3.34E-03 |
| 262           | 1.43E-02 | 5   | 2.85E-03 |
| 263           | 1.18E-02 | 5   | 2.36E-03 |
| 264           | 1.08E-02 | 5   | 2.17E-03 |
| 265           | 1.05E-02 | 5   | 2.10E-03 |
| 266           | 1.08E-02 | 5   | 2.17E-03 |
| 267           | 1.24E-02 | 5   | 2.49E-03 |
| 268           | 1.24E-02 | 5   | 2.47E-03 |
| 269           | 1.39E-02 | 5   | 2.78E-03 |
| 270           | 1.72E-02 | 5   | 3.44E-03 |
| 271           | 2.19E-02 | 5   | 4.37E-03 |
| 272           | 2.59E-02 | 5   | 5.18E-03 |
| 273           | 2.86E-02 | 5   | 5.72E-03 |
| 274           | 2.96E-02 | 5   | 5.91E-03 |
| 275           | 2.87E-02 | 5   | 5.73E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 276      | 2.68E-02 | 5   | 5.35E-03 |
| 277      | 2.41E-02 | 5   | 4.82E-03 |
| 278      | 2.13E-02 | 5   | 4.27E-03 |
| 279      | 1.87E-02 | 5   | 3.74E-03 |
| 280      | 1.60E-02 | 5   | 3.19E-03 |
| 281      | 1.35E-02 | 5   | 2.70E-03 |
| 282      | 1.14E-02 | 5   | 2.27E-03 |
| 283      | 8.62E-03 | 5   | 1.72E-03 |
| 284      | 8.27E-03 | 5   | 1.65E-03 |
| 285      | 8.10E-03 | 5   | 1.62E-03 |
| 286      | 8.57E-03 | 5   | 1.71E-03 |
| 287      | 9.78E-03 | 5   | 1.96E-03 |
| 288      | 1.07E-02 | 5   | 2.13E-03 |
| 289      | 1.11E-02 | 5   | 2.22E-03 |
| 290      | 1.34E-02 | 5   | 2.68E-03 |
| 291      | 1.64E-02 | 5   | 3.27E-03 |
| 292      | 1.95E-02 | 5   | 3.90E-03 |
| 293      | 2.20E-02 | 5   | 4.40E-03 |
| 294      | 2.34E-02 | 5   | 4.69E-03 |
| 295      | 2.35E-02 | 5   | 4.70E-03 |
| 296      | 2.27E-02 | 5   | 4.54E-03 |
| 297      | 2.12E-02 | 5   | 4.24E-03 |
| 298      | 1.92E-02 | 5   | 3.84E-03 |
| 299      | 1.71E-02 | 5   | 3.43E-03 |
| 300      | 1.50E-02 | 5   | 3.00E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 1.24E-02 | 5   | 2.47E-03 |
| 302           | 1.09E-02 | 5   | 2.18E-03 |
| 303           | 7.32E-03 | 5   | 1.46E-03 |
| 304           | 6.72E-03 | 5   | 1.34E-03 |
| 305           | 6.64E-03 | 5   | 1.33E-03 |
| 306           | 6.43E-03 | 5   | 1.29E-03 |
| 307           | 6.61E-03 | 5   | 1.32E-03 |
| 308           | 7.31E-03 | 5   | 1.46E-03 |
| 309           | 8.25E-03 | 5   | 1.65E-03 |
| 310           | 8.95E-03 | 5   | 1.79E-03 |
| 311           | 1.05E-02 | 5   | 2.11E-03 |
| 312           | 1.27E-02 | 5   | 2.53E-03 |
| 313           | 1.50E-02 | 5   | 3.01E-03 |
| 314           | 1.72E-02 | 5   | 3.44E-03 |
| 315           | 1.87E-02 | 5   | 3.75E-03 |
| 316           | 1.94E-02 | 5   | 3.89E-03 |
| 317           | 1.92E-02 | 5   | 3.85E-03 |
| 318           | 1.84E-02 | 5   | 3.67E-03 |
| 319           | 1.71E-02 | 5   | 3.42E-03 |
| 320           | 1.55E-02 | 5   | 3.09E-03 |
| 321           | 1.39E-02 | 5   | 2.77E-03 |
| 322           | 1.15E-02 | 5   | 2.30E-03 |
| 323           | 1.03E-02 | 5   | 2.06E-03 |
| 324           | 7.13E-03 | 5   | 1.43E-03 |
| 325           | 6.19E-03 | 5   | 1.24E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 326      | 6.04E-03 | 5   | 1.21E-03 |
| 327      | 5.47E-03 | 5   | 1.09E-03 |
| 328      | 5.47E-03 | 5   | 1.09E-03 |
| 329      | 5.93E-03 | 5   | 1.19E-03 |
| 330      | 6.18E-03 | 5   | 1.24E-03 |
| 331      | 6.71E-03 | 5   | 1.34E-03 |
| 332      | 7.53E-03 | 5   | 1.51E-03 |
| 333      | 8.55E-03 | 5   | 1.71E-03 |
| 334      | 1.01E-02 | 5   | 2.02E-03 |
| 335      | 1.19E-02 | 5   | 2.38E-03 |
| 336      | 1.37E-02 | 5   | 2.73E-03 |
| 337      | 1.51E-02 | 5   | 3.02E-03 |
| 338      | 1.61E-02 | 5   | 3.21E-03 |
| 339      | 1.63E-02 | 5   | 3.27E-03 |
| 340      | 1.60E-02 | 5   | 3.19E-03 |
| 341      | 1.52E-02 | 5   | 3.04E-03 |
| 342      | 1.36E-02 | 5   | 2.73E-03 |
| 343      | 1.26E-02 | 5   | 2.51E-03 |
| 344      | 1.07E-02 | 5   | 2.14E-03 |
| 345      | 9.70E-03 | 5   | 1.94E-03 |
| 346      | 5.43E-03 | 5   | 1.09E-03 |
| 347      | 5.21E-03 | 5   | 1.04E-03 |
| 348      | 4.99E-03 | 5   | 9.98E-04 |
| 349      | 4.74E-03 | 5   | 9.47E-04 |
| 350      | 4.78E-03 | 5   | 9.56E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 5.09E-03 | 5   | 1.02E-03 |
| 352           | 5.41E-03 | 5   | 1.08E-03 |
| 353           | 5.74E-03 | 5   | 1.15E-03 |
| 354           | 6.29E-03 | 5   | 1.26E-03 |
| 355           | 6.90E-03 | 5   | 1.38E-03 |
| 356           | 8.23E-03 | 5   | 1.65E-03 |
| 357           | 9.59E-03 | 5   | 1.92E-03 |
| 358           | 1.11E-02 | 5   | 2.21E-03 |
| 359           | 1.24E-02 | 5   | 2.47E-03 |
| 360           | 1.34E-02 | 5   | 2.67E-03 |
| 361           | 1.38E-02 | 5   | 2.77E-03 |
| 362           | 1.39E-02 | 5   | 2.78E-03 |
| 363           | 1.35E-02 | 5   | 2.69E-03 |
| 364           | 1.22E-02 | 5   | 2.43E-03 |
| 365           | 1.14E-02 | 5   | 2.28E-03 |
| 366           | 9.92E-03 | 5   | 1.98E-03 |
| 367           | 9.08E-03 | 5   | 1.82E-03 |
| 368           | 4.70E-03 | 5   | 9.41E-04 |
| 369           | 4.61E-03 | 5   | 9.23E-04 |
| 370           | 4.36E-03 | 5   | 8.73E-04 |
| 371           | 4.07E-03 | 5   | 8.14E-04 |
| 372           | 4.24E-03 | 5   | 8.48E-04 |
| 373           | 4.13E-03 | 5   | 8.27E-04 |
| 374           | 4.51E-03 | 5   | 9.02E-04 |
| 375           | 4.69E-03 | 5   | 9.37E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 1B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 376           | 5.13E-03 | 5   | 1.03E-03 |
| 377           | 5.55E-03 | 5   | 1.11E-03 |
| 378           | 5.91E-03 | 5   | 1.18E-03 |
| 379           | 6.82E-03 | 5   | 1.36E-03 |
| 380           | 7.55E-03 | 5   | 1.51E-03 |
| 381           | 9.09E-03 | 5   | 1.82E-03 |
| 382           | 1.02E-02 | 5   | 2.05E-03 |
| 383           | 1.12E-02 | 5   | 2.23E-03 |
| 384           | 1.18E-02 | 5   | 2.36E-03 |
| 385           | 1.20E-02 | 5   | 2.39E-03 |
| 386           | 1.18E-02 | 5   | 2.35E-03 |
| 387           | 1.09E-02 | 5   | 2.17E-03 |
| 388           | 1.03E-02 | 5   | 2.06E-03 |
| 389           | 9.17E-03 | 5   | 1.83E-03 |
| 390           | 8.47E-03 | 5   | 1.69E-03 |

**Risk Calculations - Birth to 2 years**  
**Construction Phase 2A**

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      | RISK (0- (Risk/ |     |      |       |          |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|-----------------|-----|------|-------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT              | FAH | 2)   | Mill) |          |
| 1        | 0.14257 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.53E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  | Max      |
| 2        | 0.13369 | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.43E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  | 1.48E+00 |
| 3        | 0.12214 | 0.0102 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.31E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  |          |
| 4        | 0.11318 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.21E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  |          |
| 5        | 0.10329 | 0.0102 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.11E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  |          |
| 6        | 0.0959  | 0.0102 | 9.8E-04 | 1090 | 1 | 0.96 | 1E-06 | 1.03E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  |          |
| 7        | 0.18122 | 0.0102 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.94E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.03  |          |
| 8        | 0.16599 | 0.0102 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.78E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.03  |          |
| 9        | 0.14564 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.56E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.03  |          |
| 10       | 0.13566 | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.45E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  |          |
| 11       | 0.11905 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.28E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  |          |
| 12       | 0.11174 | 0.0102 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.20E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  |          |
| 13       | 0.10516 | 0.0102 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.13E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  |          |
| 14       | 0.19891 | 0.0102 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.13E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.03  |          |
| 15       | 0.18538 | 0.0102 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.99E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.03  |          |
| 16       | 0.16647 | 0.0102 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.78E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.03  |          |
| 17       | 0.14661 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.57E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.03  |          |
| 18       | 0.13322 | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.43E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  |          |
| 19       | 0.12149 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.30E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  |          |
| 20       | 0.11331 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.21E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.02  |          |
| 21       | 0.43801 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.69E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.08  |          |
| 22       | 0.5016  | 0.0102 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.37E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.09  |          |
| 23       | 0.53845 | 0.0102 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.77E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.09  |          |
| 24       | 0.55059 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.90E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.10  |          |
| 25       | 0.61064 | 0.0102 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.54E-06 | 1.1 | 10  | 0.10 | 70              | 1   | 0.00 | 0.11  |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 26       | 0.59517 | 0.0102 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.37E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.10  |
| 27       | 0.54814 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.87E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.09  |
| 28       | 0.48705 | 0.0102 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.22E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.08  |
| 29       | 0.41251 | 0.0102 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.42E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.07  |
| 30       | 0.27062 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.90E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.05  |
| 31       | 0.24985 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.68E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.04  |
| 32       | 0.20383 | 0.0102 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.18E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.04  |
| 33       | 0.19347 | 0.0102 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.07E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.03  |
| 34       | 0.16069 | 0.0102 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.72E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.03  |
| 35       | 0.14853 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.59E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.03  |
| 36       | 0.1328  | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.42E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.02  |
| 37       | 0.12553 | 0.0102 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.34E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.02  |
| 38       | 0.59038 | 0.0102 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.32E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.10  |
| 39       | 0.53496 | 0.0102 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.73E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.09  |
| 40       | 0.57248 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.13E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.10  |
| 41       | 0.58509 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.27E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.10  |
| 42       | 0.61645 | 0.0102 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.60E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.11  |
| 43       | 0.63781 | 0.0102 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.83E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.11  |
| 44       | 0.60659 | 0.0102 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.50E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.11  |
| 45       | 0.53649 | 0.0102 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.75E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.09  |
| 46       | 0.4596  | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.92E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.08  |
| 47       | 0.41777 | 0.0102 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.47E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.07  |
| 48       | 0.3294  | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.53E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.06  |
| 49       | 0.28523 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.06E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.05  |
| 50       | 0.25804 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.76E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.04  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 51       | 0.23121 | 0.0102 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.48E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.04   |
| 52       | 0.18436 | 0.0102 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.97E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.03   |
| 53       | 0.16289 | 0.0102 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.74E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.03   |
| 54       | 0.14939 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.60E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.03   |
| 55       | 0.15235 | 0.0102 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.63E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.03   |
| 56       | 0.55797 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.98E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 57       | 0.56885 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.09E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 58       | 0.58821 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.30E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 59       | 0.68345 | 0.0102 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.32E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 60       | 0.69254 | 0.0102 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.42E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 61       | 0.73699 | 0.0102 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.89E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.13   |
| 62       | 0.72167 | 0.0102 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.73E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 63       | 0.62652 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.71E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 64       | 0.56525 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.05E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 65       | 0.46307 | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.96E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 66       | 0.46763 | 0.0102 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.01E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 67       | 0.32884 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.52E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.06   |
| 68       | 0.29277 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.14E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.05   |
| 69       | 0.27065 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.90E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.05   |
| 70       | 0.26125 | 0.0102 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.80E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.05   |
| 71       | 0.20425 | 0.0102 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.19E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.04   |
| 72       | 0.1906  | 0.0102 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.04E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.03   |
| 73       | 0.22012 | 0.0102 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.36E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.04   |
| 74       | 0.62675 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.71E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 75       | 0.65056 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.97E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 76       | 0.65456 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.01E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.11  |
| 77       | 0.73638 | 0.0102 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.89E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.13  |
| 78       | 0.8471  | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.07E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.15  |
| 79       | 0.88849 | 0.0102 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.52E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.15  |
| 80       | 0.90496 | 0.0102 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.69E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.16  |
| 81       | 0.82607 | 0.0102 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.85E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.14  |
| 82       | 0.70876 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.59E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.12  |
| 83       | 0.59652 | 0.0102 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.39E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.10  |
| 84       | 0.67997 | 0.0102 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.28E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.12  |
| 85       | 0.34615 | 0.0102 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.71E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.06  |
| 86       | 0.31525 | 0.0102 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.38E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.05  |
| 87       | 0.30195 | 0.0102 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.23E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.05  |
| 88       | 0.28593 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.06E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.05  |
| 89       | 0.2696  | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.89E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.05  |
| 90       | 0.25777 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.76E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.04  |
| 91       | 0.7657  | 0.0102 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.20E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.13  |
| 92       | 0.78216 | 0.0102 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.38E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.14  |
| 93       | 0.89506 | 0.0102 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.59E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.15  |
| 94       | 0.94714 | 0.0102 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.01E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.16  |
| 95       | 1.04003 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.11E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.18  |
| 96       | 1.12421 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.20E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.19  |
| 97       | 1.04229 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.12E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.18  |
| 98       | 0.90305 | 0.0102 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.67E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.16  |
| 99       | 0.88258 | 0.0102 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.45E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.15  |
| 100      | 0.44117 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.73E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.08  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 101      | 0.36795 | 0.0102 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.94E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.06  |
| 102      | 0.34454 | 0.0102 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.69E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.06  |
| 103      | 0.32801 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.51E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.06  |
| 104      | 0.30575 | 0.0102 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.27E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.05  |
| 105      | 0.27575 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.95E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.05  |
| 106      | 0.80913 | 0.0102 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.67E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.14  |
| 107      | 0.83667 | 0.0102 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.96E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.14  |
| 108      | 0.94434 | 0.0102 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.01E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.16  |
| 109      | 0.98691 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.06E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.17  |
| 110      | 1.13153 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.21E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.20  |
| 111      | 1.3058  | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.40E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.23  |
| 112      | 1.41351 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.51E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.24  |
| 113      | 1.42196 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.52E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.25  |
| 114      | 1.36036 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.46E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.24  |
| 115      | 0.40925 | 0.0102 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.38E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.07  |
| 116      | 0.39445 | 0.0102 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.22E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.07  |
| 117      | 0.38313 | 0.0102 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.10E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.07  |
| 118      | 0.33537 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.59E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.06  |
| 119      | 0.28473 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.05E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.05  |
| 120      | 0.92954 | 0.0102 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.96E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.16  |
| 121      | 0.86551 | 0.0102 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.27E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.15  |
| 122      | 0.98739 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.06E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.17  |
| 123      | 1.16933 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.25E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.20  |
| 124      | 1.386   | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.48E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.24  |
| 125      | 1.58316 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.70E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.27  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    | RISK (0- (Risk/ |      |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----------------|------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH             | 2)   | Mill) |
| 126      | 1.96907 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.11E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.34  |
| 127      | 2.35262 | 0.0102 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.52E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.41  |
| 128      | 0.65638 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.03E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.11  |
| 129      | 0.55176 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.91E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.10  |
| 130      | 0.46604 | 0.0102 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.99E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.08  |
| 131      | 0.38018 | 0.0102 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.07E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.07  |
| 132      | 0.26126 | 0.0102 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.80E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.05  |
| 133      | 0.85154 | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.12E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.15  |
| 134      | 1.07595 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.15E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.19  |
| 135      | 1.3543  | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.45E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.23  |
| 136      | 1.57548 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.69E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.27  |
| 137      | 1.93144 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.07E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.33  |
| 138      | 2.71283 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.91E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.47  |
| 139      | 5.71455 | 0.0102 | 5.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 6.12E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.99  |
| 140      | 0.67028 | 0.0102 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.18E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.12  |
| 141      | 0.52905 | 0.0102 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.67E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.09  |
| 142      | 0.43694 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.68E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.08  |
| 143      | 0.29239 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.13E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.05  |
| 144      | 1.25505 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.34E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.22  |
| 145      | 1.65273 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.77E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.29  |
| 146      | 1.98418 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.13E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.34  |
| 147      | 2.64664 | 0.0102 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.83E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.46  |
| 148      | 3.89148 | 0.0102 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.17E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.67  |
| 149      | 3.51153 | 0.0102 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.76E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.61  |
| 150      | 2.03503 | 0.0102 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.18E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.35  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    | RISK (0- (Risk/ |      |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----------------|------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH             | 2)   | Mill) |
| 151      | 1.50481 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.61E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.26  |
| 152      | 1.22329 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.31E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.21  |
| 153      | 0.70991 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.60E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.12  |
| 154      | 0.58106 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.22E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.10  |
| 155      | 0.47279 | 0.0102 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.06E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.08  |
| 156      | 0.40353 | 0.0102 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.32E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.07  |
| 157      | 3.34251 | 0.0102 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.58E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.58  |
| 158      | 3.76257 | 0.0102 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.03E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.65  |
| 159      | 4.54045 | 0.0102 | 4.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.86E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.79  |
| 160      | 2.52972 | 0.0102 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.71E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.44  |
| 161      | 1.65138 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.77E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.29  |
| 162      | 1.21511 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.30E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.21  |
| 163      | 0.58478 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.26E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.10  |
| 164      | 0.51231 | 0.0102 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.49E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.09  |
| 165      | 0.43002 | 0.0102 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.61E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.07  |
| 166      | 5.34751 | 0.0102 | 5.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 5.73E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.93  |
| 167      | 2.93781 | 0.0102 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.15E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.51  |
| 168      | 2.01593 | 0.0102 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.16E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.35  |
| 169      | 1.42521 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.53E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.25  |
| 170      | 1.08462 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.16E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.19  |
| 171      | 0.68161 | 0.0102 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.30E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.12  |
| 172      | 0.51579 | 0.0102 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.52E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.09  |
| 173      | 0.42776 | 0.0102 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.58E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.07  |
| 174      | 8.55485 | 0.0102 | 8.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 9.16E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 1.48  |
| 175      | 5.40053 | 0.0102 | 5.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 5.78E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.93  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    | RISK (0- (Risk/ |      |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----------------|------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH             | 2)   | Mill) |
| 176      | 3.33391 | 0.0102 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.57E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.58  |
| 177      | 2.2635  | 0.0102 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.42E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.39  |
| 178      | 1.59628 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.71E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.28  |
| 179      | 1.15673 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.24E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.20  |
| 180      | 0.89425 | 0.0102 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.58E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.15  |
| 181      | 0.62061 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.65E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.11  |
| 182      | 0.50601 | 0.0102 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.42E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.09  |
| 183      | 7.15077 | 0.0102 | 7.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 7.66E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 1.24  |
| 184      | 5.06388 | 0.0102 | 5.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 5.42E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.88  |
| 185      | 3.52857 | 0.0102 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.78E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.61  |
| 186      | 2.41297 | 0.0102 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.58E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.42  |
| 187      | 1.76478 | 0.0102 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.89E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.31  |
| 188      | 1.30975 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.40E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.23  |
| 189      | 1.01047 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.08E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.17  |
| 190      | 0.80384 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.61E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.14  |
| 191      | 8.32687 | 0.0102 | 8.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 8.92E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 1.44  |
| 192      | 6.02533 | 0.0102 | 6.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 6.45E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 1.04  |
| 193      | 4.45973 | 0.0102 | 4.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.78E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.77  |
| 194      | 3.33262 | 0.0102 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.57E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.58  |
| 195      | 2.46305 | 0.0102 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.64E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.43  |
| 196      | 1.84191 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.97E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.32  |
| 197      | 1.42077 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.52E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.25  |
| 198      | 1.08702 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.16E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.19  |
| 199      | 0.87584 | 0.0102 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.38E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.15  |
| 200      | 0.72192 | 0.0102 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.73E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.12  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 201      | 3.24959 | 0.0102 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.48E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.56  |
| 202      | 4.95098 | 0.0102 | 5.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 5.30E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.86  |
| 203      | 5.8668  | 0.0102 | 6.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 6.28E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 1.02  |
| 204      | 6.38123 | 0.0102 | 6.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 6.83E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 1.10  |
| 205      | 5.89622 | 0.0102 | 6.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 6.32E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 1.02  |
| 206      | 4.88452 | 0.0102 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 5.23E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.85  |
| 207      | 3.92915 | 0.0102 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.21E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.68  |
| 208      | 3.09747 | 0.0102 | 3.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.32E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.54  |
| 209      | 2.38952 | 0.0102 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.56E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.41  |
| 210      | 1.86639 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.00E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.32  |
| 211      | 1.46676 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.57E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.25  |
| 212      | 1.14687 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.23E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.20  |
| 213      | 0.93847 | 0.0102 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.01E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.16  |
| 214      | 0.74904 | 0.0102 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.02E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.13  |
| 215      | 0.62804 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.73E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.11  |
| 216      | 1.51358 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.62E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.26  |
| 217      | 1.75108 | 0.0102 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.88E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.30  |
| 218      | 2.40965 | 0.0102 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.58E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.42  |
| 219      | 3.09162 | 0.0102 | 3.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.31E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.54  |
| 220      | 3.64843 | 0.0102 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.91E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.63  |
| 221      | 3.87704 | 0.0102 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.15E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.67  |
| 222      | 3.7245  | 0.0102 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.99E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.64  |
| 223      | 3.25928 | 0.0102 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.49E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.56  |
| 224      | 2.72345 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.92E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.47  |
| 225      | 2.20632 | 0.0102 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.36E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.38  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 226      | 1.77318 | 0.0102 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.90E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.31  |
| 227      | 1.44239 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.54E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.25  |
| 228      | 1.16513 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.25E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.20  |
| 229      | 0.94394 | 0.0102 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.01E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.16  |
| 230      | 0.77791 | 0.0102 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.33E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.13  |
| 231      | 0.62195 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.66E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.11  |
| 232      | 1.05953 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.13E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.18  |
| 233      | 1.11661 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.20E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.19  |
| 234      | 1.47792 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.58E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.26  |
| 235      | 1.89467 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.03E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.33  |
| 236      | 2.31891 | 0.0102 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.48E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.40  |
| 237      | 2.71307 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.91E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.47  |
| 238      | 2.76677 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.96E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.48  |
| 239      | 2.56931 | 0.0102 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.75E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.44  |
| 240      | 2.2825  | 0.0102 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.44E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.40  |
| 241      | 1.93631 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.07E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.34  |
| 242      | 1.63045 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.75E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.28  |
| 243      | 1.35634 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.45E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.23  |
| 244      | 1.13547 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.22E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.20  |
| 245      | 0.91896 | 0.0102 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.84E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.16  |
| 246      | 0.77965 | 0.0102 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.35E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.13  |
| 247      | 0.63206 | 0.0102 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.77E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.11  |
| 248      | 0.86538 | 0.0102 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.27E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.15  |
| 249      | 0.85659 | 0.0102 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.18E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.15  |
| 250      | 1.00342 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.07E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00            | 0.17  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    | RISK (0- (Risk/ |      |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----------------|------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH             | 2)   | Mill) |
| 251      | 1.28849 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.38E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.22  |
| 252      | 1.63636 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.75E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.28  |
| 253      | 1.90198 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.04E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.33  |
| 254      | 2.02634 | 0.0102 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.17E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.35  |
| 255      | 2.01179 | 0.0102 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.15E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.35  |
| 256      | 1.88256 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.02E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.33  |
| 257      | 1.68205 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.80E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.29  |
| 258      | 1.46116 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.57E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.25  |
| 259      | 1.25462 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.34E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.22  |
| 260      | 1.07567 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.15E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.19  |
| 261      | 0.89369 | 0.0102 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.57E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.15  |
| 262      | 0.7632  | 0.0102 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.17E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.13  |
| 263      | 0.63167 | 0.0102 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.77E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.11  |
| 264      | 0.58009 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.21E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.10  |
| 265      | 0.56073 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.01E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.10  |
| 266      | 0.57902 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.20E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.10  |
| 267      | 0.66488 | 0.0102 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.12E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.12  |
| 268      | 0.66061 | 0.0102 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.08E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.11  |
| 269      | 0.74394 | 0.0102 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.97E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.13  |
| 270      | 0.92034 | 0.0102 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.86E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.16  |
| 271      | 1.1693  | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.25E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.20  |
| 272      | 1.38588 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.48E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.24  |
| 273      | 1.53028 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.64E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.26  |
| 274      | 1.58042 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.69E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.27  |
| 275      | 1.5324  | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.64E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.27  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 276      | 1.43091 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.25   |
| 277      | 1.28867 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.22   |
| 278      | 1.14049 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 279      | 1.0007  | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.17   |
| 280      | 0.85395 | 0.0102 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.15E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 281      | 0.7216  | 0.0102 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.73E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 282      | 0.60823 | 0.0102 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.51E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 283      | 0.46088 | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.94E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 284      | 0.44204 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.73E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 285      | 0.43325 | 0.0102 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.64E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 286      | 0.45841 | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.91E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 287      | 0.52307 | 0.0102 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.60E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 288      | 0.56987 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.10E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 289      | 0.59322 | 0.0102 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.35E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 290      | 0.71744 | 0.0102 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.68E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.12   |
| 291      | 0.87548 | 0.0102 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.38E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.15   |
| 292      | 1.04219 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 293      | 1.17605 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 294      | 1.25313 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.34E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.22   |
| 295      | 1.25792 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.22   |
| 296      | 1.21473 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.21   |
| 297      | 1.13348 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.20   |
| 298      | 1.02677 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.18   |
| 299      | 0.91652 | 0.0102 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.82E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.16   |
| 300      | 0.80208 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.59E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.14   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    | RISK (0- (Risk/ |      |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----------------|------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH             | 2)   | Mill) |
| 301      | 0.6609  | 0.0102 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.08E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.11  |
| 302      | 0.58197 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.23E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.10  |
| 303      | 0.39159 | 0.0102 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.19E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.07  |
| 304      | 0.35914 | 0.0102 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.85E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.06  |
| 305      | 0.35529 | 0.0102 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.81E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.06  |
| 306      | 0.34386 | 0.0102 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.68E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.06  |
| 307      | 0.35356 | 0.0102 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.79E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.06  |
| 308      | 0.39073 | 0.0102 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.19E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.07  |
| 309      | 0.44141 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.73E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.08  |
| 310      | 0.47846 | 0.0102 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.12E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.08  |
| 311      | 0.56418 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.04E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.10  |
| 312      | 0.67741 | 0.0102 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.26E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.12  |
| 313      | 0.80426 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.61E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.14  |
| 314      | 0.92054 | 0.0102 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.86E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.16  |
| 315      | 1.00261 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.07E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.17  |
| 316      | 1.03928 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.11E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.18  |
| 317      | 1.02828 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.10E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.18  |
| 318      | 0.98264 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.05E-05 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.17  |
| 319      | 0.91474 | 0.0102 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.80E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.16  |
| 320      | 0.82666 | 0.0102 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.85E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.14  |
| 321      | 0.74121 | 0.0102 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.94E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.13  |
| 322      | 0.6153  | 0.0102 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.59E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.11  |
| 323      | 0.55156 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.91E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.10  |
| 324      | 0.38105 | 0.0102 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.08E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.07  |
| 325      | 0.33126 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.55E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.06  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    | RISK (0- (Risk/ |      |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----------------|------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH             | 2)   | Mill) |
| 326      | 0.32305 | 0.0102 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.46E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.06  |
| 327      | 0.29252 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.13E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.05  |
| 328      | 0.29248 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.13E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.05  |
| 329      | 0.317   | 0.0102 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.40E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.05  |
| 330      | 0.33066 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.54E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.06  |
| 331      | 0.35869 | 0.0102 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.84E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.06  |
| 332      | 0.40288 | 0.0102 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.32E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.07  |
| 333      | 0.4573  | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.90E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.08  |
| 334      | 0.53898 | 0.0102 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.77E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.09  |
| 335      | 0.63508 | 0.0102 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.80E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.11  |
| 336      | 0.73114 | 0.0102 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.83E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.13  |
| 337      | 0.80795 | 0.0102 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.65E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.14  |
| 338      | 0.85925 | 0.0102 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.20E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.15  |
| 339      | 0.87375 | 0.0102 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.36E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.15  |
| 340      | 0.85425 | 0.0102 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.15E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.15  |
| 341      | 0.81269 | 0.0102 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.70E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.14  |
| 342      | 0.72959 | 0.0102 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.81E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.13  |
| 343      | 0.67174 | 0.0102 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.20E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.12  |
| 344      | 0.57305 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.14E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.10  |
| 345      | 0.51872 | 0.0102 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.56E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.09  |
| 346      | 0.29019 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.11E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.05  |
| 347      | 0.27864 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.98E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.05  |
| 348      | 0.26697 | 0.0102 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.86E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.05  |
| 349      | 0.25326 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.71E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.04  |
| 350      | 0.25562 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.74E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    | RISK (0- (Risk/ |      |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----------------|------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH             | 2)   | Mill) |
| 351      | 0.2724  | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.92E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.05  |
| 352      | 0.28943 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.10E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.05  |
| 353      | 0.3067  | 0.0102 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.29E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.05  |
| 354      | 0.33648 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.60E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.06  |
| 355      | 0.3689  | 0.0102 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.95E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.06  |
| 356      | 0.44002 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.71E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.08  |
| 357      | 0.51306 | 0.0102 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.50E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.09  |
| 358      | 0.59206 | 0.0102 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.34E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.10  |
| 359      | 0.66144 | 0.0102 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.08E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.11  |
| 360      | 0.71417 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.65E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.12  |
| 361      | 0.73968 | 0.0102 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.92E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.13  |
| 362      | 0.74345 | 0.0102 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.96E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.13  |
| 363      | 0.71982 | 0.0102 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.71E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.12  |
| 364      | 0.65107 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.97E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.11  |
| 365      | 0.60983 | 0.0102 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.53E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.11  |
| 366      | 0.53056 | 0.0102 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.68E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.09  |
| 367      | 0.48574 | 0.0102 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.20E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.08  |
| 368      | 0.25159 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.69E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.04  |
| 369      | 0.24678 | 0.0102 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.64E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.04  |
| 370      | 0.23335 | 0.0102 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.50E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.04  |
| 371      | 0.21774 | 0.0102 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.33E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.04  |
| 372      | 0.22662 | 0.0102 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.43E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.04  |
| 373      | 0.22108 | 0.0102 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.37E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.04  |
| 374      | 0.24111 | 0.0102 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.58E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.04  |
| 375      | 0.25062 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.68E-06 | 1.1 | 10  | 0.10 | 70 | 1               | 0.00 | 0.04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 376      | 0.27425 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.94E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.05   |
| 377      | 0.29662 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.18E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.05   |
| 378      | 0.31582 | 0.0102 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.38E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.05   |
| 379      | 0.36484 | 0.0102 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.91E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.06   |
| 380      | 0.40393 | 0.0102 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.33E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.07   |
| 381      | 0.48601 | 0.0102 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.21E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 382      | 0.5477  | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.87E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.09   |
| 383      | 0.59749 | 0.0102 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.40E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 384      | 0.62971 | 0.0102 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 385      | 0.64012 | 0.0102 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.86E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 386      | 0.62903 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.11   |
| 387      | 0.5807  | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.22E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 388      | 0.55072 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.90E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.10   |
| 389      | 0.49043 | 0.0102 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.25E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |
| 390      | 0.45288 | 0.0102 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.85E-06 | 1.1 | 10  | 0.10 | 70 | 1   | 0.00     | 0.08   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 1.46E-03 | 5   | 2.92E-04 | 1.75E-02 |
| 2  | 1.37E-03 | 5   | 2.74E-04 |          |
| 3  | 1.25E-03 | 5   | 2.50E-04 |          |
| 4  | 1.16E-03 | 5   | 2.32E-04 |          |
| 5  | 1.06E-03 | 5   | 2.12E-04 |          |
| 6  | 9.83E-04 | 5   | 1.97E-04 |          |
| 7  | 1.86E-03 | 5   | 3.71E-04 |          |
| 8  | 1.70E-03 | 5   | 3.40E-04 |          |
| 9  | 1.49E-03 | 5   | 2.98E-04 |          |
| 10 | 1.39E-03 | 5   | 2.78E-04 |          |
| 11 | 1.22E-03 | 5   | 2.44E-04 |          |
| 12 | 1.15E-03 | 5   | 2.29E-04 |          |
| 13 | 1.08E-03 | 5   | 2.16E-04 |          |
| 14 | 2.04E-03 | 5   | 4.08E-04 |          |
| 15 | 1.90E-03 | 5   | 3.80E-04 |          |
| 16 | 1.71E-03 | 5   | 3.41E-04 |          |
| 17 | 1.50E-03 | 5   | 3.00E-04 |          |
| 18 | 1.37E-03 | 5   | 2.73E-04 |          |
| 19 | 1.25E-03 | 5   | 2.49E-04 |          |
| 20 | 1.16E-03 | 5   | 2.32E-04 |          |
| 21 | 4.49E-03 | 5   | 8.98E-04 |          |
| 22 | 5.14E-03 | 5   | 1.03E-03 |          |
| 23 | 5.52E-03 | 5   | 1.10E-03 |          |
| 24 | 5.64E-03 | 5   | 1.13E-03 |          |
| 25 | 6.26E-03 | 5   | 1.25E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 6.10E-03    | 5          | 1.22E-03  |
| 27       | 5.62E-03    | 5          | 1.12E-03  |
| 28       | 4.99E-03    | 5          | 9.98E-04  |
| 29       | 4.23E-03    | 5          | 8.45E-04  |
| 30       | 2.77E-03    | 5          | 5.55E-04  |
| 31       | 2.56E-03    | 5          | 5.12E-04  |
| 32       | 2.09E-03    | 5          | 4.18E-04  |
| 33       | 1.98E-03    | 5          | 3.97E-04  |
| 34       | 1.65E-03    | 5          | 3.29E-04  |
| 35       | 1.52E-03    | 5          | 3.04E-04  |
| 36       | 1.36E-03    | 5          | 2.72E-04  |
| 37       | 1.29E-03    | 5          | 2.57E-04  |
| 38       | 6.05E-03    | 5          | 1.21E-03  |
| 39       | 5.48E-03    | 5          | 1.10E-03  |
| 40       | 5.87E-03    | 5          | 1.17E-03  |
| 41       | 6.00E-03    | 5          | 1.20E-03  |
| 42       | 6.32E-03    | 5          | 1.26E-03  |
| 43       | 6.54E-03    | 5          | 1.31E-03  |
| 44       | 6.22E-03    | 5          | 1.24E-03  |
| 45       | 5.50E-03    | 5          | 1.10E-03  |
| 46       | 4.71E-03    | 5          | 9.42E-04  |
| 47       | 4.28E-03    | 5          | 8.56E-04  |
| 48       | 3.38E-03    | 5          | 6.75E-04  |
| 49       | 2.92E-03    | 5          | 5.85E-04  |
| 50       | 2.64E-03    | 5          | 5.29E-04  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 2.37E-03    | 5          | 4.74E-04  |
| 52       | 1.89E-03    | 5          | 3.78E-04  |
| 53       | 1.67E-03    | 5          | 3.34E-04  |
| 54       | 1.53E-03    | 5          | 3.06E-04  |
| 55       | 1.56E-03    | 5          | 3.12E-04  |
| 56       | 5.72E-03    | 5          | 1.14E-03  |
| 57       | 5.83E-03    | 5          | 1.17E-03  |
| 58       | 6.03E-03    | 5          | 1.21E-03  |
| 59       | 7.00E-03    | 5          | 1.40E-03  |
| 60       | 7.10E-03    | 5          | 1.42E-03  |
| 61       | 7.55E-03    | 5          | 1.51E-03  |
| 62       | 7.40E-03    | 5          | 1.48E-03  |
| 63       | 6.42E-03    | 5          | 1.28E-03  |
| 64       | 5.79E-03    | 5          | 1.16E-03  |
| 65       | 4.75E-03    | 5          | 9.49E-04  |
| 66       | 4.79E-03    | 5          | 9.58E-04  |
| 67       | 3.37E-03    | 5          | 6.74E-04  |
| 68       | 3.00E-03    | 5          | 6.00E-04  |
| 69       | 2.77E-03    | 5          | 5.55E-04  |
| 70       | 2.68E-03    | 5          | 5.35E-04  |
| 71       | 2.09E-03    | 5          | 4.19E-04  |
| 72       | 1.95E-03    | 5          | 3.91E-04  |
| 73       | 2.26E-03    | 5          | 4.51E-04  |
| 74       | 6.42E-03    | 5          | 1.28E-03  |
| 75       | 6.67E-03    | 5          | 1.33E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 76       | 6.71E-03 | 5   | 1.34E-03 |
| 77       | 7.55E-03 | 5   | 1.51E-03 |
| 78       | 8.68E-03 | 5   | 1.74E-03 |
| 79       | 9.11E-03 | 5   | 1.82E-03 |
| 80       | 9.27E-03 | 5   | 1.85E-03 |
| 81       | 8.47E-03 | 5   | 1.69E-03 |
| 82       | 7.26E-03 | 5   | 1.45E-03 |
| 83       | 6.11E-03 | 5   | 1.22E-03 |
| 84       | 6.97E-03 | 5   | 1.39E-03 |
| 85       | 3.55E-03 | 5   | 7.09E-04 |
| 86       | 3.23E-03 | 5   | 6.46E-04 |
| 87       | 3.09E-03 | 5   | 6.19E-04 |
| 88       | 2.93E-03 | 5   | 5.86E-04 |
| 89       | 2.76E-03 | 5   | 5.53E-04 |
| 90       | 2.64E-03 | 5   | 5.28E-04 |
| 91       | 7.85E-03 | 5   | 1.57E-03 |
| 92       | 8.02E-03 | 5   | 1.60E-03 |
| 93       | 9.17E-03 | 5   | 1.83E-03 |
| 94       | 9.71E-03 | 5   | 1.94E-03 |
| 95       | 1.07E-02 | 5   | 2.13E-03 |
| 96       | 1.15E-02 | 5   | 2.30E-03 |
| 97       | 1.07E-02 | 5   | 2.14E-03 |
| 98       | 9.25E-03 | 5   | 1.85E-03 |
| 99       | 9.04E-03 | 5   | 1.81E-03 |
| 100      | 4.52E-03 | 5   | 9.04E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 3.77E-03 | 5   | 7.54E-04 |
| 102           | 3.53E-03 | 5   | 7.06E-04 |
| 103           | 3.36E-03 | 5   | 6.72E-04 |
| 104           | 3.13E-03 | 5   | 6.27E-04 |
| 105           | 2.83E-03 | 5   | 5.65E-04 |
| 106           | 8.29E-03 | 5   | 1.66E-03 |
| 107           | 8.57E-03 | 5   | 1.71E-03 |
| 108           | 9.68E-03 | 5   | 1.94E-03 |
| 109           | 1.01E-02 | 5   | 2.02E-03 |
| 110           | 1.16E-02 | 5   | 2.32E-03 |
| 111           | 1.34E-02 | 5   | 2.68E-03 |
| 112           | 1.45E-02 | 5   | 2.90E-03 |
| 113           | 1.46E-02 | 5   | 2.91E-03 |
| 114           | 1.39E-02 | 5   | 2.79E-03 |
| 115           | 4.19E-03 | 5   | 8.39E-04 |
| 116           | 4.04E-03 | 5   | 8.08E-04 |
| 117           | 3.93E-03 | 5   | 7.85E-04 |
| 118           | 3.44E-03 | 5   | 6.87E-04 |
| 119           | 2.92E-03 | 5   | 5.84E-04 |
| 120           | 9.53E-03 | 5   | 1.91E-03 |
| 121           | 8.87E-03 | 5   | 1.77E-03 |
| 122           | 1.01E-02 | 5   | 2.02E-03 |
| 123           | 1.20E-02 | 5   | 2.40E-03 |
| 124           | 1.42E-02 | 5   | 2.84E-03 |
| 125           | 1.62E-02 | 5   | 3.24E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 126      | 2.02E-02    | 5          | 4.04E-03  |
| 127      | 2.41E-02    | 5          | 4.82E-03  |
| 128      | 6.73E-03    | 5          | 1.35E-03  |
| 129      | 5.65E-03    | 5          | 1.13E-03  |
| 130      | 4.78E-03    | 5          | 9.55E-04  |
| 131      | 3.90E-03    | 5          | 7.79E-04  |
| 132      | 2.68E-03    | 5          | 5.35E-04  |
| 133      | 8.73E-03    | 5          | 1.75E-03  |
| 134      | 1.10E-02    | 5          | 2.21E-03  |
| 135      | 1.39E-02    | 5          | 2.78E-03  |
| 136      | 1.61E-02    | 5          | 3.23E-03  |
| 137      | 1.98E-02    | 5          | 3.96E-03  |
| 138      | 2.78E-02    | 5          | 5.56E-03  |
| 139      | 5.86E-02    | 5          | 1.17E-02  |
| 140      | 6.87E-03    | 5          | 1.37E-03  |
| 141      | 5.42E-03    | 5          | 1.08E-03  |
| 142      | 4.48E-03    | 5          | 8.96E-04  |
| 143      | 3.00E-03    | 5          | 5.99E-04  |
| 144      | 1.29E-02    | 5          | 2.57E-03  |
| 145      | 1.69E-02    | 5          | 3.39E-03  |
| 146      | 2.03E-02    | 5          | 4.07E-03  |
| 147      | 2.71E-02    | 5          | 5.42E-03  |
| 148      | 3.99E-02    | 5          | 7.98E-03  |
| 149      | 3.60E-02    | 5          | 7.20E-03  |
| 150      | 2.09E-02    | 5          | 4.17E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 1.54E-02 | 5   | 3.08E-03 |
| 152           | 1.25E-02 | 5   | 2.51E-03 |
| 153           | 7.28E-03 | 5   | 1.46E-03 |
| 154           | 5.95E-03 | 5   | 1.19E-03 |
| 155           | 4.85E-03 | 5   | 9.69E-04 |
| 156           | 4.14E-03 | 5   | 8.27E-04 |
| 157           | 3.43E-02 | 5   | 6.85E-03 |
| 158           | 3.86E-02 | 5   | 7.71E-03 |
| 159           | 4.65E-02 | 5   | 9.31E-03 |
| 160           | 2.59E-02 | 5   | 5.18E-03 |
| 161           | 1.69E-02 | 5   | 3.38E-03 |
| 162           | 1.25E-02 | 5   | 2.49E-03 |
| 163           | 5.99E-03 | 5   | 1.20E-03 |
| 164           | 5.25E-03 | 5   | 1.05E-03 |
| 165           | 4.41E-03 | 5   | 8.81E-04 |
| 166           | 5.48E-02 | 5   | 1.10E-02 |
| 167           | 3.01E-02 | 5   | 6.02E-03 |
| 168           | 2.07E-02 | 5   | 4.13E-03 |
| 169           | 1.46E-02 | 5   | 2.92E-03 |
| 170           | 1.11E-02 | 5   | 2.22E-03 |
| 171           | 6.99E-03 | 5   | 1.40E-03 |
| 172           | 5.29E-03 | 5   | 1.06E-03 |
| 173           | 4.38E-03 | 5   | 8.77E-04 |
| 174           | 8.77E-02 | 5   | 1.75E-02 |
| 175           | 5.53E-02 | 5   | 1.11E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 3.42E-02 | 5   | 6.83E-03 |
| 177           | 2.32E-02 | 5   | 4.64E-03 |
| 178           | 1.64E-02 | 5   | 3.27E-03 |
| 179           | 1.19E-02 | 5   | 2.37E-03 |
| 180           | 9.16E-03 | 5   | 1.83E-03 |
| 181           | 6.36E-03 | 5   | 1.27E-03 |
| 182           | 5.19E-03 | 5   | 1.04E-03 |
| 183           | 7.33E-02 | 5   | 1.47E-02 |
| 184           | 5.19E-02 | 5   | 1.04E-02 |
| 185           | 3.62E-02 | 5   | 7.23E-03 |
| 186           | 2.47E-02 | 5   | 4.95E-03 |
| 187           | 1.81E-02 | 5   | 3.62E-03 |
| 188           | 1.34E-02 | 5   | 2.68E-03 |
| 189           | 1.04E-02 | 5   | 2.07E-03 |
| 190           | 8.24E-03 | 5   | 1.65E-03 |
| 191           | 8.53E-02 | 5   | 1.71E-02 |
| 192           | 6.17E-02 | 5   | 1.23E-02 |
| 193           | 4.57E-02 | 5   | 9.14E-03 |
| 194           | 3.42E-02 | 5   | 6.83E-03 |
| 195           | 2.52E-02 | 5   | 5.05E-03 |
| 196           | 1.89E-02 | 5   | 3.78E-03 |
| 197           | 1.46E-02 | 5   | 2.91E-03 |
| 198           | 1.11E-02 | 5   | 2.23E-03 |
| 199           | 8.98E-03 | 5   | 1.80E-03 |
| 200           | 7.40E-03 | 5   | 1.48E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 201      | 3.33E-02 | 5   | 6.66E-03 |
| 202      | 5.07E-02 | 5   | 1.01E-02 |
| 203      | 6.01E-02 | 5   | 1.20E-02 |
| 204      | 6.54E-02 | 5   | 1.31E-02 |
| 205      | 6.04E-02 | 5   | 1.21E-02 |
| 206      | 5.01E-02 | 5   | 1.00E-02 |
| 207      | 4.03E-02 | 5   | 8.05E-03 |
| 208      | 3.17E-02 | 5   | 6.35E-03 |
| 209      | 2.45E-02 | 5   | 4.90E-03 |
| 210      | 1.91E-02 | 5   | 3.83E-03 |
| 211      | 1.50E-02 | 5   | 3.01E-03 |
| 212      | 1.18E-02 | 5   | 2.35E-03 |
| 213      | 9.62E-03 | 5   | 1.92E-03 |
| 214      | 7.68E-03 | 5   | 1.54E-03 |
| 215      | 6.44E-03 | 5   | 1.29E-03 |
| 216      | 1.55E-02 | 5   | 3.10E-03 |
| 217      | 1.79E-02 | 5   | 3.59E-03 |
| 218      | 2.47E-02 | 5   | 4.94E-03 |
| 219      | 3.17E-02 | 5   | 6.34E-03 |
| 220      | 3.74E-02 | 5   | 7.48E-03 |
| 221      | 3.97E-02 | 5   | 7.95E-03 |
| 222      | 3.82E-02 | 5   | 7.63E-03 |
| 223      | 3.34E-02 | 5   | 6.68E-03 |
| 224      | 2.79E-02 | 5   | 5.58E-03 |
| 225      | 2.26E-02 | 5   | 4.52E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 226           | 1.82E-02 | 5   | 3.63E-03 |
| 227           | 1.48E-02 | 5   | 2.96E-03 |
| 228           | 1.19E-02 | 5   | 2.39E-03 |
| 229           | 9.67E-03 | 5   | 1.93E-03 |
| 230           | 7.97E-03 | 5   | 1.59E-03 |
| 231           | 6.37E-03 | 5   | 1.27E-03 |
| 232           | 1.09E-02 | 5   | 2.17E-03 |
| 233           | 1.14E-02 | 5   | 2.29E-03 |
| 234           | 1.51E-02 | 5   | 3.03E-03 |
| 235           | 1.94E-02 | 5   | 3.88E-03 |
| 236           | 2.38E-02 | 5   | 4.75E-03 |
| 237           | 2.78E-02 | 5   | 5.56E-03 |
| 238           | 2.84E-02 | 5   | 5.67E-03 |
| 239           | 2.63E-02 | 5   | 5.27E-03 |
| 240           | 2.34E-02 | 5   | 4.68E-03 |
| 241           | 1.98E-02 | 5   | 3.97E-03 |
| 242           | 1.67E-02 | 5   | 3.34E-03 |
| 243           | 1.39E-02 | 5   | 2.78E-03 |
| 244           | 1.16E-02 | 5   | 2.33E-03 |
| 245           | 9.42E-03 | 5   | 1.88E-03 |
| 246           | 7.99E-03 | 5   | 1.60E-03 |
| 247           | 6.48E-03 | 5   | 1.30E-03 |
| 248           | 8.87E-03 | 5   | 1.77E-03 |
| 249           | 8.78E-03 | 5   | 1.76E-03 |
| 250           | 1.03E-02 | 5   | 2.06E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 1.32E-02 | 5   | 2.64E-03 |
| 252           | 1.68E-02 | 5   | 3.35E-03 |
| 253           | 1.95E-02 | 5   | 3.90E-03 |
| 254           | 2.08E-02 | 5   | 4.15E-03 |
| 255           | 2.06E-02 | 5   | 4.12E-03 |
| 256           | 1.93E-02 | 5   | 3.86E-03 |
| 257           | 1.72E-02 | 5   | 3.45E-03 |
| 258           | 1.50E-02 | 5   | 2.99E-03 |
| 259           | 1.29E-02 | 5   | 2.57E-03 |
| 260           | 1.10E-02 | 5   | 2.20E-03 |
| 261           | 9.16E-03 | 5   | 1.83E-03 |
| 262           | 7.82E-03 | 5   | 1.56E-03 |
| 263           | 6.47E-03 | 5   | 1.29E-03 |
| 264           | 5.94E-03 | 5   | 1.19E-03 |
| 265           | 5.75E-03 | 5   | 1.15E-03 |
| 266           | 5.93E-03 | 5   | 1.19E-03 |
| 267           | 6.81E-03 | 5   | 1.36E-03 |
| 268           | 6.77E-03 | 5   | 1.35E-03 |
| 269           | 7.62E-03 | 5   | 1.52E-03 |
| 270           | 9.43E-03 | 5   | 1.89E-03 |
| 271           | 1.20E-02 | 5   | 2.40E-03 |
| 272           | 1.42E-02 | 5   | 2.84E-03 |
| 273           | 1.57E-02 | 5   | 3.14E-03 |
| 274           | 1.62E-02 | 5   | 3.24E-03 |
| 275           | 1.57E-02 | 5   | 3.14E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 276      | 1.47E-02    | 5          | 2.93E-03  |
| 277      | 1.32E-02    | 5          | 2.64E-03  |
| 278      | 1.17E-02    | 5          | 2.34E-03  |
| 279      | 1.03E-02    | 5          | 2.05E-03  |
| 280      | 8.75E-03    | 5          | 1.75E-03  |
| 281      | 7.39E-03    | 5          | 1.48E-03  |
| 282      | 6.23E-03    | 5          | 1.25E-03  |
| 283      | 4.72E-03    | 5          | 9.45E-04  |
| 284      | 4.53E-03    | 5          | 9.06E-04  |
| 285      | 4.44E-03    | 5          | 8.88E-04  |
| 286      | 4.70E-03    | 5          | 9.40E-04  |
| 287      | 5.36E-03    | 5          | 1.07E-03  |
| 288      | 5.84E-03    | 5          | 1.17E-03  |
| 289      | 6.08E-03    | 5          | 1.22E-03  |
| 290      | 7.35E-03    | 5          | 1.47E-03  |
| 291      | 8.97E-03    | 5          | 1.79E-03  |
| 292      | 1.07E-02    | 5          | 2.14E-03  |
| 293      | 1.21E-02    | 5          | 2.41E-03  |
| 294      | 1.28E-02    | 5          | 2.57E-03  |
| 295      | 1.29E-02    | 5          | 2.58E-03  |
| 296      | 1.24E-02    | 5          | 2.49E-03  |
| 297      | 1.16E-02    | 5          | 2.32E-03  |
| 298      | 1.05E-02    | 5          | 2.10E-03  |
| 299      | 9.39E-03    | 5          | 1.88E-03  |
| 300      | 8.22E-03    | 5          | 1.64E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 6.77E-03 | 5   | 1.35E-03 |
| 302           | 5.96E-03 | 5   | 1.19E-03 |
| 303           | 4.01E-03 | 5   | 8.03E-04 |
| 304           | 3.68E-03 | 5   | 7.36E-04 |
| 305           | 3.64E-03 | 5   | 7.28E-04 |
| 306           | 3.52E-03 | 5   | 7.05E-04 |
| 307           | 3.62E-03 | 5   | 7.25E-04 |
| 308           | 4.00E-03 | 5   | 8.01E-04 |
| 309           | 4.52E-03 | 5   | 9.05E-04 |
| 310           | 4.90E-03 | 5   | 9.81E-04 |
| 311           | 5.78E-03 | 5   | 1.16E-03 |
| 312           | 6.94E-03 | 5   | 1.39E-03 |
| 313           | 8.24E-03 | 5   | 1.65E-03 |
| 314           | 9.43E-03 | 5   | 1.89E-03 |
| 315           | 1.03E-02 | 5   | 2.05E-03 |
| 316           | 1.07E-02 | 5   | 2.13E-03 |
| 317           | 1.05E-02 | 5   | 2.11E-03 |
| 318           | 1.01E-02 | 5   | 2.01E-03 |
| 319           | 9.37E-03 | 5   | 1.87E-03 |
| 320           | 8.47E-03 | 5   | 1.69E-03 |
| 321           | 7.60E-03 | 5   | 1.52E-03 |
| 322           | 6.31E-03 | 5   | 1.26E-03 |
| 323           | 5.65E-03 | 5   | 1.13E-03 |
| 324           | 3.90E-03 | 5   | 7.81E-04 |
| 325           | 3.39E-03 | 5   | 6.79E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 326      | 3.31E-03 | 5   | 6.62E-04 |
| 327      | 3.00E-03 | 5   | 6.00E-04 |
| 328      | 3.00E-03 | 5   | 5.99E-04 |
| 329      | 3.25E-03 | 5   | 6.50E-04 |
| 330      | 3.39E-03 | 5   | 6.78E-04 |
| 331      | 3.68E-03 | 5   | 7.35E-04 |
| 332      | 4.13E-03 | 5   | 8.26E-04 |
| 333      | 4.69E-03 | 5   | 9.37E-04 |
| 334      | 5.52E-03 | 5   | 1.10E-03 |
| 335      | 6.51E-03 | 5   | 1.30E-03 |
| 336      | 7.49E-03 | 5   | 1.50E-03 |
| 337      | 8.28E-03 | 5   | 1.66E-03 |
| 338      | 8.81E-03 | 5   | 1.76E-03 |
| 339      | 8.95E-03 | 5   | 1.79E-03 |
| 340      | 8.75E-03 | 5   | 1.75E-03 |
| 341      | 8.33E-03 | 5   | 1.67E-03 |
| 342      | 7.48E-03 | 5   | 1.50E-03 |
| 343      | 6.88E-03 | 5   | 1.38E-03 |
| 344      | 5.87E-03 | 5   | 1.17E-03 |
| 345      | 5.32E-03 | 5   | 1.06E-03 |
| 346      | 2.97E-03 | 5   | 5.95E-04 |
| 347      | 2.86E-03 | 5   | 5.71E-04 |
| 348      | 2.74E-03 | 5   | 5.47E-04 |
| 349      | 2.60E-03 | 5   | 5.19E-04 |
| 350      | 2.62E-03 | 5   | 5.24E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 351      | 2.79E-03    | 5          | 5.58E-04  |
| 352      | 2.97E-03    | 5          | 5.93E-04  |
| 353      | 3.14E-03    | 5          | 6.29E-04  |
| 354      | 3.45E-03    | 5          | 6.90E-04  |
| 355      | 3.78E-03    | 5          | 7.56E-04  |
| 356      | 4.51E-03    | 5          | 9.02E-04  |
| 357      | 5.26E-03    | 5          | 1.05E-03  |
| 358      | 6.07E-03    | 5          | 1.21E-03  |
| 359      | 6.78E-03    | 5          | 1.36E-03  |
| 360      | 7.32E-03    | 5          | 1.46E-03  |
| 361      | 7.58E-03    | 5          | 1.52E-03  |
| 362      | 7.62E-03    | 5          | 1.52E-03  |
| 363      | 7.38E-03    | 5          | 1.48E-03  |
| 364      | 6.67E-03    | 5          | 1.33E-03  |
| 365      | 6.25E-03    | 5          | 1.25E-03  |
| 366      | 5.44E-03    | 5          | 1.09E-03  |
| 367      | 4.98E-03    | 5          | 9.96E-04  |
| 368      | 2.58E-03    | 5          | 5.16E-04  |
| 369      | 2.53E-03    | 5          | 5.06E-04  |
| 370      | 2.39E-03    | 5          | 4.78E-04  |
| 371      | 2.23E-03    | 5          | 4.46E-04  |
| 372      | 2.32E-03    | 5          | 4.64E-04  |
| 373      | 2.27E-03    | 5          | 4.53E-04  |
| 374      | 2.47E-03    | 5          | 4.94E-04  |
| 375      | 2.57E-03    | 5          | 5.14E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 2.81E-03    | 5          | 5.62E-04  |
| 377      | 3.04E-03    | 5          | 6.08E-04  |
| 378      | 3.24E-03    | 5          | 6.47E-04  |
| 379      | 3.74E-03    | 5          | 7.48E-04  |
| 380      | 4.14E-03    | 5          | 8.28E-04  |
| 381      | 4.98E-03    | 5          | 9.96E-04  |
| 382      | 5.61E-03    | 5          | 1.12E-03  |
| 383      | 6.12E-03    | 5          | 1.22E-03  |
| 384      | 6.45E-03    | 5          | 1.29E-03  |
| 385      | 6.56E-03    | 5          | 1.31E-03  |
| 386      | 6.45E-03    | 5          | 1.29E-03  |
| 387      | 5.95E-03    | 5          | 1.19E-03  |
| 388      | 5.64E-03    | 5          | 1.13E-03  |
| 389      | 5.03E-03    | 5          | 1.01E-03  |
| 390      | 4.64E-03    | 5          | 9.28E-04  |

**Risk Calculations - Birth to 2 years**  
**Construction Phase 2B**

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     |      | RISK (0- (Risk/ |          |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|------|-----------------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)   | Mill)           |          |
| 1        | 0.14257 | 0.0069 | 9.9E-04 | 1090 | 1 | 0.96 | 1E-06 | 1.03E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            | Max      |
| 2        | 0.13369 | 0.0069 | 9.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.67E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            | 5.00E-01 |
| 3        | 0.12214 | 0.0069 | 8.5E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.84E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 4        | 0.11318 | 0.0069 | 7.8E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.19E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 5        | 0.10329 | 0.0069 | 7.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.47E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 6        | 0.0959  | 0.0069 | 6.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 6.94E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 7        | 0.18122 | 0.0069 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 8        | 0.16599 | 0.0069 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 9        | 0.14564 | 0.0069 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.05E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 10       | 0.13566 | 0.0069 | 9.4E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.81E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 11       | 0.11905 | 0.0069 | 8.2E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.61E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 12       | 0.11174 | 0.0069 | 7.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.08E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 13       | 0.10516 | 0.0069 | 7.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.61E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 14       | 0.19891 | 0.0069 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 15       | 0.18538 | 0.0069 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 16       | 0.16647 | 0.0069 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 17       | 0.14661 | 0.0069 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 18       | 0.13322 | 0.0069 | 9.2E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.64E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 19       | 0.12149 | 0.0069 | 8.4E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.79E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 20       | 0.11331 | 0.0069 | 7.8E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.20E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.01            |          |
| 21       | 0.43801 | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.03            |          |
| 22       | 0.5016  | 0.0069 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.03            |          |
| 23       | 0.53845 | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.03            |          |
| 24       | 0.55059 | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.98E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.03            |          |
| 25       | 0.61064 | 0.0069 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 | 0.04            |          |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 26       | 0.59517 | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 27       | 0.54814 | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 28       | 0.48705 | 0.0069 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 29       | 0.41251 | 0.0069 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.98E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 30       | 0.27062 | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 31       | 0.24985 | 0.0069 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.01  |
| 32       | 0.20383 | 0.0069 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.47E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.01  |
| 33       | 0.19347 | 0.0069 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.40E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.01  |
| 34       | 0.16069 | 0.0069 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.01  |
| 35       | 0.14853 | 0.0069 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.01  |
| 36       | 0.1328  | 0.0069 | 9.2E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.61E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.01  |
| 37       | 0.12553 | 0.0069 | 8.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.08E-07 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.01  |
| 38       | 0.59038 | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.27E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 39       | 0.53496 | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 40       | 0.57248 | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.14E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 41       | 0.58509 | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.23E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 42       | 0.61645 | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 43       | 0.63781 | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.61E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 44       | 0.60659 | 0.0069 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.39E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 45       | 0.53649 | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.88E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 46       | 0.4596  | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 47       | 0.41777 | 0.0069 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 48       | 0.3294  | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.38E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 49       | 0.28523 | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 50       | 0.25804 | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 51       | 0.23121 | 0.0069 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 52       | 0.18436 | 0.0069 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 53       | 0.16289 | 0.0069 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 54       | 0.14939 | 0.0069 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 55       | 0.15235 | 0.0069 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 56       | 0.55797 | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.04E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 57       | 0.56885 | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 58       | 0.58821 | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 59       | 0.68345 | 0.0069 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.94E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 60       | 0.69254 | 0.0069 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.01E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 61       | 0.73699 | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.33E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 62       | 0.72167 | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.22E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 63       | 0.62652 | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.53E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 64       | 0.56525 | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.09E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 65       | 0.46307 | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 66       | 0.46763 | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.38E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 67       | 0.32884 | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.38E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 68       | 0.29277 | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 69       | 0.27065 | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 70       | 0.26125 | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 71       | 0.20425 | 0.0069 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 72       | 0.1906  | 0.0069 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 73       | 0.22012 | 0.0069 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 74       | 0.62675 | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.53E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 75       | 0.65056 | 0.0069 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 76       | 0.65456 | 0.0069 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 77       | 0.73638 | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.33E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 78       | 0.8471  | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 79       | 0.88849 | 0.0069 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 80       | 0.90496 | 0.0069 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.55E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 81       | 0.82607 | 0.0069 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.98E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 82       | 0.70876 | 0.0069 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 83       | 0.59652 | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 84       | 0.67997 | 0.0069 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.92E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 85       | 0.34615 | 0.0069 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 86       | 0.31525 | 0.0069 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 87       | 0.30195 | 0.0069 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.18E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 88       | 0.28593 | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 89       | 0.2696  | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.95E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 90       | 0.25777 | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 91       | 0.7657  | 0.0069 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 92       | 0.78216 | 0.0069 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 93       | 0.89506 | 0.0069 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 94       | 0.94714 | 0.0069 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 95       | 1.04003 | 0.0069 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 96       | 1.12421 | 0.0069 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.07  |
| 97       | 1.04229 | 0.0069 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 98       | 0.90305 | 0.0069 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.53E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 99       | 0.88258 | 0.0069 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.38E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 100      | 0.44117 | 0.0069 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 101      | 0.36795 | 0.0069 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 102      | 0.34454 | 0.0069 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.49E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 103      | 0.32801 | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 104      | 0.30575 | 0.0069 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 105      | 0.27575 | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.99E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 106      | 0.80913 | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 107      | 0.83667 | 0.0069 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.05E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 108      | 0.94434 | 0.0069 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.83E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 109      | 0.98691 | 0.0069 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.14E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 110      | 1.13153 | 0.0069 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.07  |
| 111      | 1.3058  | 0.0069 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.45E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.08  |
| 112      | 1.41351 | 0.0069 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.02E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.08  |
| 113      | 1.42196 | 0.0069 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.08  |
| 114      | 1.36036 | 0.0069 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.84E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.08  |
| 115      | 0.40925 | 0.0069 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 116      | 0.39445 | 0.0069 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 117      | 0.38313 | 0.0069 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 118      | 0.33537 | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 119      | 0.28473 | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 120      | 0.92954 | 0.0069 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 121      | 0.86551 | 0.0069 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 122      | 0.98739 | 0.0069 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.14E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 123      | 1.16933 | 0.0069 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.07  |
| 124      | 1.386   | 0.0069 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.00E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.08  |
| 125      | 1.58316 | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.09  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 126      | 1.96907 | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.42E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.12  |
| 127      | 2.35262 | 0.0069 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.70E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.14  |
| 128      | 0.65638 | 0.0069 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.75E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 129      | 0.55176 | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.99E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 130      | 0.46604 | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 131      | 0.38018 | 0.0069 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.75E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 132      | 0.26126 | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.89E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 133      | 0.85154 | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 134      | 1.07595 | 0.0069 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 135      | 1.3543  | 0.0069 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.80E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.08  |
| 136      | 1.57548 | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.09  |
| 137      | 1.93144 | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.40E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.11  |
| 138      | 2.71283 | 0.0069 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.96E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.16  |
| 139      | 5.71455 | 0.0069 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.13E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.33  |
| 140      | 0.67028 | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 141      | 0.52905 | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.83E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 142      | 0.43694 | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 143      | 0.29239 | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 144      | 1.25505 | 0.0069 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.07  |
| 145      | 1.65273 | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.20E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.10  |
| 146      | 1.98418 | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.12  |
| 147      | 2.64664 | 0.0069 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.91E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.15  |
| 148      | 3.89148 | 0.0069 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.82E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.23  |
| 149      | 3.51153 | 0.0069 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.54E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.21  |
| 150      | 2.03503 | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.47E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.12  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2) Mill)        |
| 151      | 1.50481 | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.09       |
| 152      | 1.22329 | 0.0069 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.07       |
| 153      | 0.70991 | 0.0069 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.14E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.04       |
| 154      | 0.58106 | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.03       |
| 155      | 0.47279 | 0.0069 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.03       |
| 156      | 0.40353 | 0.0069 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.92E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.02       |
| 157      | 3.34251 | 0.0069 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.42E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.20       |
| 158      | 3.76257 | 0.0069 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.72E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.22       |
| 159      | 4.54045 | 0.0069 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.28E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.27       |
| 160      | 2.52972 | 0.0069 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.83E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.15       |
| 161      | 1.65138 | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.10       |
| 162      | 1.21511 | 0.0069 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.79E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.07       |
| 163      | 0.58478 | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.23E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.03       |
| 164      | 0.51231 | 0.0069 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.03       |
| 165      | 0.43002 | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.03       |
| 166      | 5.34751 | 0.0069 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.87E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.31       |
| 167      | 2.93781 | 0.0069 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.13E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.17       |
| 168      | 2.01593 | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.46E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.12       |
| 169      | 1.42521 | 0.0069 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.08       |
| 170      | 1.08462 | 0.0069 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.06       |
| 171      | 0.68161 | 0.0069 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.04       |
| 172      | 0.51579 | 0.0069 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.73E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.03       |
| 173      | 0.42776 | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.09E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.03       |
| 174      | 8.55485 | 0.0069 | 5.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 6.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.50       |
| 175      | 5.40053 | 0.0069 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.91E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00 0.32       |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 176      | 3.33391 | 0.0069 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.19   |
| 177      | 2.2635  | 0.0069 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 178      | 1.59628 | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 179      | 1.15673 | 0.0069 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 180      | 0.89425 | 0.0069 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.47E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 181      | 0.62061 | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.49E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 182      | 0.50601 | 0.0069 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 183      | 7.15077 | 0.0069 | 4.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.17E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.42   |
| 184      | 5.06388 | 0.0069 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.30   |
| 185      | 3.52857 | 0.0069 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.55E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.21   |
| 186      | 2.41297 | 0.0069 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 187      | 1.76478 | 0.0069 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 188      | 1.30975 | 0.0069 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 189      | 1.01047 | 0.0069 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 190      | 0.80384 | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 191      | 8.32687 | 0.0069 | 5.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.02E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.49   |
| 192      | 6.02533 | 0.0069 | 4.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.36E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.35   |
| 193      | 4.45973 | 0.0069 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.26   |
| 194      | 3.33262 | 0.0069 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.19   |
| 195      | 2.46305 | 0.0069 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.78E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 196      | 1.84191 | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 197      | 1.42077 | 0.0069 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 198      | 1.08702 | 0.0069 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 199      | 0.87584 | 0.0069 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 200      | 0.72192 | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.22E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 201      | 3.24959 | 0.0069 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.35E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.19   |
| 202      | 4.95098 | 0.0069 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.58E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.29   |
| 203      | 5.8668  | 0.0069 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.24E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.34   |
| 204      | 6.38123 | 0.0069 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.62E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.37   |
| 205      | 5.89622 | 0.0069 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.27E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.34   |
| 206      | 4.88452 | 0.0069 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.53E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.29   |
| 207      | 3.92915 | 0.0069 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.84E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.23   |
| 208      | 3.09747 | 0.0069 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.24E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.18   |
| 209      | 2.38952 | 0.0069 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 210      | 1.86639 | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 211      | 1.46676 | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 212      | 1.14687 | 0.0069 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 213      | 0.93847 | 0.0069 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.79E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 214      | 0.74904 | 0.0069 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 215      | 0.62804 | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 216      | 1.51358 | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 217      | 1.75108 | 0.0069 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 218      | 2.40965 | 0.0069 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 219      | 3.09162 | 0.0069 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.24E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.18   |
| 220      | 3.64843 | 0.0069 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.64E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.21   |
| 221      | 3.87704 | 0.0069 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.23   |
| 222      | 3.7245  | 0.0069 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.22   |
| 223      | 3.25928 | 0.0069 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.19   |
| 224      | 2.72345 | 0.0069 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.97E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 225      | 2.20632 | 0.0069 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.60E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 226      | 1.77318 | 0.0069 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 227      | 1.44239 | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 228      | 1.16513 | 0.0069 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 229      | 0.94394 | 0.0069 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.83E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 230      | 0.77791 | 0.0069 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 231      | 0.62195 | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 232      | 1.05953 | 0.0069 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 233      | 1.11661 | 0.0069 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 234      | 1.47792 | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 235      | 1.89467 | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 236      | 2.31891 | 0.0069 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 237      | 2.71307 | 0.0069 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 238      | 2.76677 | 0.0069 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.00E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 239      | 2.56931 | 0.0069 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.86E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.15   |
| 240      | 2.2825  | 0.0069 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 241      | 1.93631 | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 242      | 1.63045 | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 243      | 1.35634 | 0.0069 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 244      | 1.13547 | 0.0069 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 245      | 0.91896 | 0.0069 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 246      | 0.77965 | 0.0069 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.64E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 247      | 0.63206 | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 248      | 0.86538 | 0.0069 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 249      | 0.85659 | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 250      | 1.00342 | 0.0069 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 251      | 1.28849 | 0.0069 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.08  |
| 252      | 1.63636 | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.18E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.10  |
| 253      | 1.90198 | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.38E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.11  |
| 254      | 2.02634 | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.47E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.12  |
| 255      | 2.01179 | 0.0069 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.46E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.12  |
| 256      | 1.88256 | 0.0069 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.36E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.11  |
| 257      | 1.68205 | 0.0069 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.22E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.10  |
| 258      | 1.46116 | 0.0069 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.09  |
| 259      | 1.25462 | 0.0069 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.07  |
| 260      | 1.07567 | 0.0069 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 261      | 0.89369 | 0.0069 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.47E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 262      | 0.7632  | 0.0069 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 263      | 0.63167 | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 264      | 0.58009 | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 265      | 0.56073 | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 266      | 0.57902 | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 267      | 0.66488 | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 268      | 0.66061 | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 269      | 0.74394 | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.38E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 270      | 0.92034 | 0.0069 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 271      | 1.1693  | 0.0069 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.07  |
| 272      | 1.38588 | 0.0069 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.00E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.08  |
| 273      | 1.53028 | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.09  |
| 274      | 1.58042 | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.09  |
| 275      | 1.5324  | 0.0069 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.09  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 276      | 1.43091 | 0.0069 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 277      | 1.28867 | 0.0069 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 278      | 1.14049 | 0.0069 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.25E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 279      | 1.0007  | 0.0069 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.24E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 280      | 0.85395 | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 281      | 0.7216  | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.22E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 282      | 0.60823 | 0.0069 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.40E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 283      | 0.46088 | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.33E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 284      | 0.44204 | 0.0069 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 285      | 0.43325 | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 286      | 0.45841 | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 287      | 0.52307 | 0.0069 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 288      | 0.56987 | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 289      | 0.59322 | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 290      | 0.71744 | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 291      | 0.87548 | 0.0069 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.33E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 292      | 1.04219 | 0.0069 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 293      | 1.17605 | 0.0069 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 294      | 1.25313 | 0.0069 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 295      | 1.25792 | 0.0069 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.10E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 296      | 1.21473 | 0.0069 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.79E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 297      | 1.13348 | 0.0069 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 298      | 1.02677 | 0.0069 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 299      | 0.91652 | 0.0069 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 300      | 0.80208 | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.80E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/ |       |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|-----------------|-------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)              | Mill) |
| 301      | 0.6609  | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 302      | 0.58197 | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 303      | 0.39159 | 0.0069 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.83E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 304      | 0.35914 | 0.0069 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.60E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 305      | 0.35529 | 0.0069 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 306      | 0.34386 | 0.0069 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.49E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 307      | 0.35356 | 0.0069 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 308      | 0.39073 | 0.0069 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.83E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 309      | 0.44141 | 0.0069 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 310      | 0.47846 | 0.0069 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 311      | 0.56418 | 0.0069 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 312      | 0.67741 | 0.0069 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 313      | 0.80426 | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 314      | 0.92054 | 0.0069 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 315      | 1.00261 | 0.0069 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.25E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 316      | 1.03928 | 0.0069 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 317      | 1.02828 | 0.0069 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 318      | 0.98264 | 0.0069 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.06  |
| 319      | 0.91474 | 0.0069 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.62E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 320      | 0.82666 | 0.0069 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.98E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.05  |
| 321      | 0.74121 | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.36E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 322      | 0.6153  | 0.0069 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.45E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.04  |
| 323      | 0.55156 | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.99E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.03  |
| 324      | 0.38105 | 0.0069 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |
| 325      | 0.33126 | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.40E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00            | 0.02  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 326      | 0.32305 | 0.0069 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 327      | 0.29252 | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 328      | 0.29248 | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 329      | 0.317   | 0.0069 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 330      | 0.33066 | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.39E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 331      | 0.35869 | 0.0069 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 332      | 0.40288 | 0.0069 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 333      | 0.4573  | 0.0069 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 334      | 0.53898 | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 335      | 0.63508 | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 336      | 0.73114 | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 337      | 0.80795 | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 338      | 0.85925 | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.22E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 339      | 0.87375 | 0.0069 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 340      | 0.85425 | 0.0069 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 341      | 0.81269 | 0.0069 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.88E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 342      | 0.72959 | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 343      | 0.67174 | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 344      | 0.57305 | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 345      | 0.51872 | 0.0069 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.75E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 346      | 0.29019 | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.10E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 347      | 0.27864 | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 348      | 0.26697 | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 349      | 0.25326 | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 350      | 0.25562 | 0.0069 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 351      | 0.2724  | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 352      | 0.28943 | 0.0069 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 353      | 0.3067  | 0.0069 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.22E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 354      | 0.33648 | 0.0069 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 355      | 0.3689  | 0.0069 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 356      | 0.44002 | 0.0069 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.18E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 357      | 0.51306 | 0.0069 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 358      | 0.59206 | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 359      | 0.66144 | 0.0069 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.79E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 360      | 0.71417 | 0.0069 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 361      | 0.73968 | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 362      | 0.74345 | 0.0069 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.38E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 363      | 0.71982 | 0.0069 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 364      | 0.65107 | 0.0069 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 365      | 0.60983 | 0.0069 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.41E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 366      | 0.53056 | 0.0069 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.84E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 367      | 0.48574 | 0.0069 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 368      | 0.25159 | 0.0069 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 369      | 0.24678 | 0.0069 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 370      | 0.23335 | 0.0069 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 371      | 0.21774 | 0.0069 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 372      | 0.22662 | 0.0069 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 373      | 0.22108 | 0.0069 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.60E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 374      | 0.24111 | 0.0069 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 375      | 0.25062 | 0.0069 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 376      | 0.27425 | 0.0069 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 377      | 0.29662 | 0.0069 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 378      | 0.31582 | 0.0069 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 379      | 0.36484 | 0.0069 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.64E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 380      | 0.40393 | 0.0069 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.92E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 381      | 0.48601 | 0.0069 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 382      | 0.5477  | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 383      | 0.59749 | 0.0069 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 384      | 0.62971 | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 385      | 0.64012 | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 386      | 0.62903 | 0.0069 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.55E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 387      | 0.5807  | 0.0069 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 388      | 0.55072 | 0.0069 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.98E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 389      | 0.49043 | 0.0069 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.55E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 390      | 0.45288 | 0.0069 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 9.87E-04 | 5   | 1.97E-04 | 1.18E-02 |
| 2  | 9.25E-04 | 5   | 1.85E-04 |          |
| 3  | 8.45E-04 | 5   | 1.69E-04 |          |
| 4  | 7.83E-04 | 5   | 1.57E-04 |          |
| 5  | 7.15E-04 | 5   | 1.43E-04 |          |
| 6  | 6.64E-04 | 5   | 1.33E-04 |          |
| 7  | 1.25E-03 | 5   | 2.51E-04 |          |
| 8  | 1.15E-03 | 5   | 2.30E-04 |          |
| 9  | 1.01E-03 | 5   | 2.02E-04 |          |
| 10 | 9.39E-04 | 5   | 1.88E-04 |          |
| 11 | 8.24E-04 | 5   | 1.65E-04 |          |
| 12 | 7.73E-04 | 5   | 1.55E-04 |          |
| 13 | 7.28E-04 | 5   | 1.46E-04 |          |
| 14 | 1.38E-03 | 5   | 2.75E-04 |          |
| 15 | 1.28E-03 | 5   | 2.57E-04 |          |
| 16 | 1.15E-03 | 5   | 2.30E-04 |          |
| 17 | 1.01E-03 | 5   | 2.03E-04 |          |
| 18 | 9.22E-04 | 5   | 1.84E-04 |          |
| 19 | 8.41E-04 | 5   | 1.68E-04 |          |
| 20 | 7.84E-04 | 5   | 1.57E-04 |          |
| 21 | 3.03E-03 | 5   | 6.06E-04 |          |
| 22 | 3.47E-03 | 5   | 6.94E-04 |          |
| 23 | 3.73E-03 | 5   | 7.45E-04 |          |
| 24 | 3.81E-03 | 5   | 7.62E-04 |          |
| 25 | 4.23E-03 | 5   | 8.45E-04 |          |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 4.12E-03    | 5          | 8.24E-04  |
| 27       | 3.79E-03    | 5          | 7.59E-04  |
| 28       | 3.37E-03    | 5          | 6.74E-04  |
| 29       | 2.86E-03    | 5          | 5.71E-04  |
| 30       | 1.87E-03    | 5          | 3.75E-04  |
| 31       | 1.73E-03    | 5          | 3.46E-04  |
| 32       | 1.41E-03    | 5          | 2.82E-04  |
| 33       | 1.34E-03    | 5          | 2.68E-04  |
| 34       | 1.11E-03    | 5          | 2.22E-04  |
| 35       | 1.03E-03    | 5          | 2.06E-04  |
| 36       | 9.19E-04    | 5          | 1.84E-04  |
| 37       | 8.69E-04    | 5          | 1.74E-04  |
| 38       | 4.09E-03    | 5          | 8.17E-04  |
| 39       | 3.70E-03    | 5          | 7.41E-04  |
| 40       | 3.96E-03    | 5          | 7.92E-04  |
| 41       | 4.05E-03    | 5          | 8.10E-04  |
| 42       | 4.27E-03    | 5          | 8.53E-04  |
| 43       | 4.41E-03    | 5          | 8.83E-04  |
| 44       | 4.20E-03    | 5          | 8.40E-04  |
| 45       | 3.71E-03    | 5          | 7.43E-04  |
| 46       | 3.18E-03    | 5          | 6.36E-04  |
| 47       | 2.89E-03    | 5          | 5.78E-04  |
| 48       | 2.28E-03    | 5          | 4.56E-04  |
| 49       | 1.97E-03    | 5          | 3.95E-04  |
| 50       | 1.79E-03    | 5          | 3.57E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 1.60E-03    | 5          | 3.20E-04  |
| 52       | 1.28E-03    | 5          | 2.55E-04  |
| 53       | 1.13E-03    | 5          | 2.25E-04  |
| 54       | 1.03E-03    | 5          | 2.07E-04  |
| 55       | 1.05E-03    | 5          | 2.11E-04  |
| 56       | 3.86E-03    | 5          | 7.72E-04  |
| 57       | 3.94E-03    | 5          | 7.87E-04  |
| 58       | 4.07E-03    | 5          | 8.14E-04  |
| 59       | 4.73E-03    | 5          | 9.46E-04  |
| 60       | 4.79E-03    | 5          | 9.59E-04  |
| 61       | 5.10E-03    | 5          | 1.02E-03  |
| 62       | 5.00E-03    | 5          | 9.99E-04  |
| 63       | 4.34E-03    | 5          | 8.67E-04  |
| 64       | 3.91E-03    | 5          | 7.82E-04  |
| 65       | 3.21E-03    | 5          | 6.41E-04  |
| 66       | 3.24E-03    | 5          | 6.47E-04  |
| 67       | 2.28E-03    | 5          | 4.55E-04  |
| 68       | 2.03E-03    | 5          | 4.05E-04  |
| 69       | 1.87E-03    | 5          | 3.75E-04  |
| 70       | 1.81E-03    | 5          | 3.62E-04  |
| 71       | 1.41E-03    | 5          | 2.83E-04  |
| 72       | 1.32E-03    | 5          | 2.64E-04  |
| 73       | 1.52E-03    | 5          | 3.05E-04  |
| 74       | 4.34E-03    | 5          | 8.68E-04  |
| 75       | 4.50E-03    | 5          | 9.01E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 4.53E-03    | 5          | 9.06E-04  |
| 77       | 5.10E-03    | 5          | 1.02E-03  |
| 78       | 5.86E-03    | 5          | 1.17E-03  |
| 79       | 6.15E-03    | 5          | 1.23E-03  |
| 80       | 6.26E-03    | 5          | 1.25E-03  |
| 81       | 5.72E-03    | 5          | 1.14E-03  |
| 82       | 4.91E-03    | 5          | 9.81E-04  |
| 83       | 4.13E-03    | 5          | 8.26E-04  |
| 84       | 4.71E-03    | 5          | 9.41E-04  |
| 85       | 2.40E-03    | 5          | 4.79E-04  |
| 86       | 2.18E-03    | 5          | 4.36E-04  |
| 87       | 2.09E-03    | 5          | 4.18E-04  |
| 88       | 1.98E-03    | 5          | 3.96E-04  |
| 89       | 1.87E-03    | 5          | 3.73E-04  |
| 90       | 1.78E-03    | 5          | 3.57E-04  |
| 91       | 5.30E-03    | 5          | 1.06E-03  |
| 92       | 5.41E-03    | 5          | 1.08E-03  |
| 93       | 6.20E-03    | 5          | 1.24E-03  |
| 94       | 6.56E-03    | 5          | 1.31E-03  |
| 95       | 7.20E-03    | 5          | 1.44E-03  |
| 96       | 7.78E-03    | 5          | 1.56E-03  |
| 97       | 7.21E-03    | 5          | 1.44E-03  |
| 98       | 6.25E-03    | 5          | 1.25E-03  |
| 99       | 6.11E-03    | 5          | 1.22E-03  |
| 100      | 3.05E-03    | 5          | 6.11E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 101      | 2.55E-03 | 5   | 5.09E-04 |
| 102      | 2.38E-03 | 5   | 4.77E-04 |
| 103      | 2.27E-03 | 5   | 4.54E-04 |
| 104      | 2.12E-03 | 5   | 4.23E-04 |
| 105      | 1.91E-03 | 5   | 3.82E-04 |
| 106      | 5.60E-03 | 5   | 1.12E-03 |
| 107      | 5.79E-03 | 5   | 1.16E-03 |
| 108      | 6.54E-03 | 5   | 1.31E-03 |
| 109      | 6.83E-03 | 5   | 1.37E-03 |
| 110      | 7.83E-03 | 5   | 1.57E-03 |
| 111      | 9.04E-03 | 5   | 1.81E-03 |
| 112      | 9.78E-03 | 5   | 1.96E-03 |
| 113      | 9.84E-03 | 5   | 1.97E-03 |
| 114      | 9.42E-03 | 5   | 1.88E-03 |
| 115      | 2.83E-03 | 5   | 5.67E-04 |
| 116      | 2.73E-03 | 5   | 5.46E-04 |
| 117      | 2.65E-03 | 5   | 5.30E-04 |
| 118      | 2.32E-03 | 5   | 4.64E-04 |
| 119      | 1.97E-03 | 5   | 3.94E-04 |
| 120      | 6.43E-03 | 5   | 1.29E-03 |
| 121      | 5.99E-03 | 5   | 1.20E-03 |
| 122      | 6.83E-03 | 5   | 1.37E-03 |
| 123      | 8.09E-03 | 5   | 1.62E-03 |
| 124      | 9.59E-03 | 5   | 1.92E-03 |
| 125      | 1.10E-02 | 5   | 2.19E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 126      | 1.36E-02 | 5   | 2.73E-03 |
| 127      | 1.63E-02 | 5   | 3.26E-03 |
| 128      | 4.54E-03 | 5   | 9.09E-04 |
| 129      | 3.82E-03 | 5   | 7.64E-04 |
| 130      | 3.23E-03 | 5   | 6.45E-04 |
| 131      | 2.63E-03 | 5   | 5.26E-04 |
| 132      | 1.81E-03 | 5   | 3.62E-04 |
| 133      | 5.89E-03 | 5   | 1.18E-03 |
| 134      | 7.45E-03 | 5   | 1.49E-03 |
| 135      | 9.37E-03 | 5   | 1.87E-03 |
| 136      | 1.09E-02 | 5   | 2.18E-03 |
| 137      | 1.34E-02 | 5   | 2.67E-03 |
| 138      | 1.88E-02 | 5   | 3.76E-03 |
| 139      | 3.96E-02 | 5   | 7.91E-03 |
| 140      | 4.64E-03 | 5   | 9.28E-04 |
| 141      | 3.66E-03 | 5   | 7.32E-04 |
| 142      | 3.02E-03 | 5   | 6.05E-04 |
| 143      | 2.02E-03 | 5   | 4.05E-04 |
| 144      | 8.69E-03 | 5   | 1.74E-03 |
| 145      | 1.14E-02 | 5   | 2.29E-03 |
| 146      | 1.37E-02 | 5   | 2.75E-03 |
| 147      | 1.83E-02 | 5   | 3.66E-03 |
| 148      | 2.69E-02 | 5   | 5.39E-03 |
| 149      | 2.43E-02 | 5   | 4.86E-03 |
| 150      | 1.41E-02 | 5   | 2.82E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 1.04E-02 | 5   | 2.08E-03 |
| 152           | 8.47E-03 | 5   | 1.69E-03 |
| 153           | 4.91E-03 | 5   | 9.83E-04 |
| 154           | 4.02E-03 | 5   | 8.04E-04 |
| 155           | 3.27E-03 | 5   | 6.54E-04 |
| 156           | 2.79E-03 | 5   | 5.59E-04 |
| 157           | 2.31E-02 | 5   | 4.63E-03 |
| 158           | 2.60E-02 | 5   | 5.21E-03 |
| 159           | 3.14E-02 | 5   | 6.29E-03 |
| 160           | 1.75E-02 | 5   | 3.50E-03 |
| 161           | 1.14E-02 | 5   | 2.29E-03 |
| 162           | 8.41E-03 | 5   | 1.68E-03 |
| 163           | 4.05E-03 | 5   | 8.10E-04 |
| 164           | 3.55E-03 | 5   | 7.09E-04 |
| 165           | 2.98E-03 | 5   | 5.95E-04 |
| 166           | 3.70E-02 | 5   | 7.40E-03 |
| 167           | 2.03E-02 | 5   | 4.07E-03 |
| 168           | 1.40E-02 | 5   | 2.79E-03 |
| 169           | 9.86E-03 | 5   | 1.97E-03 |
| 170           | 7.51E-03 | 5   | 1.50E-03 |
| 171           | 4.72E-03 | 5   | 9.44E-04 |
| 172           | 3.57E-03 | 5   | 7.14E-04 |
| 173           | 2.96E-03 | 5   | 5.92E-04 |
| 174           | 5.92E-02 | 5   | 1.18E-02 |
| 175           | 3.74E-02 | 5   | 7.48E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 176      | 2.31E-02 | 5   | 4.62E-03 |
| 177      | 1.57E-02 | 5   | 3.13E-03 |
| 178      | 1.10E-02 | 5   | 2.21E-03 |
| 179      | 8.01E-03 | 5   | 1.60E-03 |
| 180      | 6.19E-03 | 5   | 1.24E-03 |
| 181      | 4.30E-03 | 5   | 8.59E-04 |
| 182      | 3.50E-03 | 5   | 7.00E-04 |
| 183      | 4.95E-02 | 5   | 9.90E-03 |
| 184      | 3.50E-02 | 5   | 7.01E-03 |
| 185      | 2.44E-02 | 5   | 4.88E-03 |
| 186      | 1.67E-02 | 5   | 3.34E-03 |
| 187      | 1.22E-02 | 5   | 2.44E-03 |
| 188      | 9.07E-03 | 5   | 1.81E-03 |
| 189      | 6.99E-03 | 5   | 1.40E-03 |
| 190      | 5.56E-03 | 5   | 1.11E-03 |
| 191      | 5.76E-02 | 5   | 1.15E-02 |
| 192      | 4.17E-02 | 5   | 8.34E-03 |
| 193      | 3.09E-02 | 5   | 6.17E-03 |
| 194      | 2.31E-02 | 5   | 4.61E-03 |
| 195      | 1.70E-02 | 5   | 3.41E-03 |
| 196      | 1.27E-02 | 5   | 2.55E-03 |
| 197      | 9.83E-03 | 5   | 1.97E-03 |
| 198      | 7.52E-03 | 5   | 1.50E-03 |
| 199      | 6.06E-03 | 5   | 1.21E-03 |
| 200      | 5.00E-03 | 5   | 9.99E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 201           | 2.25E-02 | 5   | 4.50E-03 |
| 202           | 3.43E-02 | 5   | 6.85E-03 |
| 203           | 4.06E-02 | 5   | 8.12E-03 |
| 204           | 4.42E-02 | 5   | 8.83E-03 |
| 205           | 4.08E-02 | 5   | 8.16E-03 |
| 206           | 3.38E-02 | 5   | 6.76E-03 |
| 207           | 2.72E-02 | 5   | 5.44E-03 |
| 208           | 2.14E-02 | 5   | 4.29E-03 |
| 209           | 1.65E-02 | 5   | 3.31E-03 |
| 210           | 1.29E-02 | 5   | 2.58E-03 |
| 211           | 1.02E-02 | 5   | 2.03E-03 |
| 212           | 7.94E-03 | 5   | 1.59E-03 |
| 213           | 6.50E-03 | 5   | 1.30E-03 |
| 214           | 5.18E-03 | 5   | 1.04E-03 |
| 215           | 4.35E-03 | 5   | 8.69E-04 |
| 216           | 1.05E-02 | 5   | 2.10E-03 |
| 217           | 1.21E-02 | 5   | 2.42E-03 |
| 218           | 1.67E-02 | 5   | 3.34E-03 |
| 219           | 2.14E-02 | 5   | 4.28E-03 |
| 220           | 2.53E-02 | 5   | 5.05E-03 |
| 221           | 2.68E-02 | 5   | 5.37E-03 |
| 222           | 2.58E-02 | 5   | 5.16E-03 |
| 223           | 2.26E-02 | 5   | 4.51E-03 |
| 224           | 1.89E-02 | 5   | 3.77E-03 |
| 225           | 1.53E-02 | 5   | 3.05E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 226           | 1.23E-02 | 5   | 2.45E-03 |
| 227           | 9.98E-03 | 5   | 2.00E-03 |
| 228           | 8.06E-03 | 5   | 1.61E-03 |
| 229           | 6.53E-03 | 5   | 1.31E-03 |
| 230           | 5.38E-03 | 5   | 1.08E-03 |
| 231           | 4.30E-03 | 5   | 8.61E-04 |
| 232           | 7.33E-03 | 5   | 1.47E-03 |
| 233           | 7.73E-03 | 5   | 1.55E-03 |
| 234           | 1.02E-02 | 5   | 2.05E-03 |
| 235           | 1.31E-02 | 5   | 2.62E-03 |
| 236           | 1.61E-02 | 5   | 3.21E-03 |
| 237           | 1.88E-02 | 5   | 3.76E-03 |
| 238           | 1.92E-02 | 5   | 3.83E-03 |
| 239           | 1.78E-02 | 5   | 3.56E-03 |
| 240           | 1.58E-02 | 5   | 3.16E-03 |
| 241           | 1.34E-02 | 5   | 2.68E-03 |
| 242           | 1.13E-02 | 5   | 2.26E-03 |
| 243           | 9.39E-03 | 5   | 1.88E-03 |
| 244           | 7.86E-03 | 5   | 1.57E-03 |
| 245           | 6.36E-03 | 5   | 1.27E-03 |
| 246           | 5.40E-03 | 5   | 1.08E-03 |
| 247           | 4.37E-03 | 5   | 8.75E-04 |
| 248           | 5.99E-03 | 5   | 1.20E-03 |
| 249           | 5.93E-03 | 5   | 1.19E-03 |
| 250           | 6.95E-03 | 5   | 1.39E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 8.92E-03 | 5   | 1.78E-03 |
| 252           | 1.13E-02 | 5   | 2.27E-03 |
| 253           | 1.32E-02 | 5   | 2.63E-03 |
| 254           | 1.40E-02 | 5   | 2.81E-03 |
| 255           | 1.39E-02 | 5   | 2.78E-03 |
| 256           | 1.30E-02 | 5   | 2.61E-03 |
| 257           | 1.16E-02 | 5   | 2.33E-03 |
| 258           | 1.01E-02 | 5   | 2.02E-03 |
| 259           | 8.68E-03 | 5   | 1.74E-03 |
| 260           | 7.45E-03 | 5   | 1.49E-03 |
| 261           | 6.19E-03 | 5   | 1.24E-03 |
| 262           | 5.28E-03 | 5   | 1.06E-03 |
| 263           | 4.37E-03 | 5   | 8.74E-04 |
| 264           | 4.02E-03 | 5   | 8.03E-04 |
| 265           | 3.88E-03 | 5   | 7.76E-04 |
| 266           | 4.01E-03 | 5   | 8.02E-04 |
| 267           | 4.60E-03 | 5   | 9.20E-04 |
| 268           | 4.57E-03 | 5   | 9.14E-04 |
| 269           | 5.15E-03 | 5   | 1.03E-03 |
| 270           | 6.37E-03 | 5   | 1.27E-03 |
| 271           | 8.09E-03 | 5   | 1.62E-03 |
| 272           | 9.59E-03 | 5   | 1.92E-03 |
| 273           | 1.06E-02 | 5   | 2.12E-03 |
| 274           | 1.09E-02 | 5   | 2.19E-03 |
| 275           | 1.06E-02 | 5   | 2.12E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 276           | 9.90E-03 | 5   | 1.98E-03 |
| 277           | 8.92E-03 | 5   | 1.78E-03 |
| 278           | 7.89E-03 | 5   | 1.58E-03 |
| 279           | 6.93E-03 | 5   | 1.39E-03 |
| 280           | 5.91E-03 | 5   | 1.18E-03 |
| 281           | 4.99E-03 | 5   | 9.99E-04 |
| 282           | 4.21E-03 | 5   | 8.42E-04 |
| 283           | 3.19E-03 | 5   | 6.38E-04 |
| 284           | 3.06E-03 | 5   | 6.12E-04 |
| 285           | 3.00E-03 | 5   | 6.00E-04 |
| 286           | 3.17E-03 | 5   | 6.35E-04 |
| 287           | 3.62E-03 | 5   | 7.24E-04 |
| 288           | 3.94E-03 | 5   | 7.89E-04 |
| 289           | 4.11E-03 | 5   | 8.21E-04 |
| 290           | 4.97E-03 | 5   | 9.93E-04 |
| 291           | 6.06E-03 | 5   | 1.21E-03 |
| 292           | 7.21E-03 | 5   | 1.44E-03 |
| 293           | 8.14E-03 | 5   | 1.63E-03 |
| 294           | 8.67E-03 | 5   | 1.73E-03 |
| 295           | 8.71E-03 | 5   | 1.74E-03 |
| 296           | 8.41E-03 | 5   | 1.68E-03 |
| 297           | 7.85E-03 | 5   | 1.57E-03 |
| 298           | 7.11E-03 | 5   | 1.42E-03 |
| 299           | 6.34E-03 | 5   | 1.27E-03 |
| 300           | 5.55E-03 | 5   | 1.11E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 4.57E-03 | 5   | 9.15E-04 |
| 302           | 4.03E-03 | 5   | 8.06E-04 |
| 303           | 2.71E-03 | 5   | 5.42E-04 |
| 304           | 2.49E-03 | 5   | 4.97E-04 |
| 305           | 2.46E-03 | 5   | 4.92E-04 |
| 306           | 2.38E-03 | 5   | 4.76E-04 |
| 307           | 2.45E-03 | 5   | 4.89E-04 |
| 308           | 2.70E-03 | 5   | 5.41E-04 |
| 309           | 3.06E-03 | 5   | 6.11E-04 |
| 310           | 3.31E-03 | 5   | 6.62E-04 |
| 311           | 3.90E-03 | 5   | 7.81E-04 |
| 312           | 4.69E-03 | 5   | 9.38E-04 |
| 313           | 5.57E-03 | 5   | 1.11E-03 |
| 314           | 6.37E-03 | 5   | 1.27E-03 |
| 315           | 6.94E-03 | 5   | 1.39E-03 |
| 316           | 7.19E-03 | 5   | 1.44E-03 |
| 317           | 7.12E-03 | 5   | 1.42E-03 |
| 318           | 6.80E-03 | 5   | 1.36E-03 |
| 319           | 6.33E-03 | 5   | 1.27E-03 |
| 320           | 5.72E-03 | 5   | 1.14E-03 |
| 321           | 5.13E-03 | 5   | 1.03E-03 |
| 322           | 4.26E-03 | 5   | 8.52E-04 |
| 323           | 3.82E-03 | 5   | 7.64E-04 |
| 324           | 2.64E-03 | 5   | 5.27E-04 |
| 325           | 2.29E-03 | 5   | 4.59E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 326      | 2.24E-03 | 5   | 4.47E-04 |
| 327      | 2.02E-03 | 5   | 4.05E-04 |
| 328      | 2.02E-03 | 5   | 4.05E-04 |
| 329      | 2.19E-03 | 5   | 4.39E-04 |
| 330      | 2.29E-03 | 5   | 4.58E-04 |
| 331      | 2.48E-03 | 5   | 4.97E-04 |
| 332      | 2.79E-03 | 5   | 5.58E-04 |
| 333      | 3.17E-03 | 5   | 6.33E-04 |
| 334      | 3.73E-03 | 5   | 7.46E-04 |
| 335      | 4.40E-03 | 5   | 8.79E-04 |
| 336      | 5.06E-03 | 5   | 1.01E-03 |
| 337      | 5.59E-03 | 5   | 1.12E-03 |
| 338      | 5.95E-03 | 5   | 1.19E-03 |
| 339      | 6.05E-03 | 5   | 1.21E-03 |
| 340      | 5.91E-03 | 5   | 1.18E-03 |
| 341      | 5.63E-03 | 5   | 1.13E-03 |
| 342      | 5.05E-03 | 5   | 1.01E-03 |
| 343      | 4.65E-03 | 5   | 9.30E-04 |
| 344      | 3.97E-03 | 5   | 7.93E-04 |
| 345      | 3.59E-03 | 5   | 7.18E-04 |
| 346      | 2.01E-03 | 5   | 4.02E-04 |
| 347      | 1.93E-03 | 5   | 3.86E-04 |
| 348      | 1.85E-03 | 5   | 3.70E-04 |
| 349      | 1.75E-03 | 5   | 3.51E-04 |
| 350      | 1.77E-03 | 5   | 3.54E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 1.89E-03 | 5   | 3.77E-04 |
| 352           | 2.00E-03 | 5   | 4.01E-04 |
| 353           | 2.12E-03 | 5   | 4.25E-04 |
| 354           | 2.33E-03 | 5   | 4.66E-04 |
| 355           | 2.55E-03 | 5   | 5.11E-04 |
| 356           | 3.05E-03 | 5   | 6.09E-04 |
| 357           | 3.55E-03 | 5   | 7.10E-04 |
| 358           | 4.10E-03 | 5   | 8.20E-04 |
| 359           | 4.58E-03 | 5   | 9.16E-04 |
| 360           | 4.94E-03 | 5   | 9.89E-04 |
| 361           | 5.12E-03 | 5   | 1.02E-03 |
| 362           | 5.15E-03 | 5   | 1.03E-03 |
| 363           | 4.98E-03 | 5   | 9.96E-04 |
| 364           | 4.51E-03 | 5   | 9.01E-04 |
| 365           | 4.22E-03 | 5   | 8.44E-04 |
| 366           | 3.67E-03 | 5   | 7.34E-04 |
| 367           | 3.36E-03 | 5   | 6.72E-04 |
| 368           | 1.74E-03 | 5   | 3.48E-04 |
| 369           | 1.71E-03 | 5   | 3.42E-04 |
| 370           | 1.62E-03 | 5   | 3.23E-04 |
| 371           | 1.51E-03 | 5   | 3.01E-04 |
| 372           | 1.57E-03 | 5   | 3.14E-04 |
| 373           | 1.53E-03 | 5   | 3.06E-04 |
| 374           | 1.67E-03 | 5   | 3.34E-04 |
| 375           | 1.73E-03 | 5   | 3.47E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2B**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 1.90E-03    | 5          | 3.80E-04  |
| 377      | 2.05E-03    | 5          | 4.11E-04  |
| 378      | 2.19E-03    | 5          | 4.37E-04  |
| 379      | 2.53E-03    | 5          | 5.05E-04  |
| 380      | 2.80E-03    | 5          | 5.59E-04  |
| 381      | 3.36E-03    | 5          | 6.73E-04  |
| 382      | 3.79E-03    | 5          | 7.58E-04  |
| 383      | 4.14E-03    | 5          | 8.27E-04  |
| 384      | 4.36E-03    | 5          | 8.72E-04  |
| 385      | 4.43E-03    | 5          | 8.86E-04  |
| 386      | 4.35E-03    | 5          | 8.71E-04  |
| 387      | 4.02E-03    | 5          | 8.04E-04  |
| 388      | 3.81E-03    | 5          | 7.62E-04  |
| 389      | 3.39E-03    | 5          | 6.79E-04  |
| 390      | 3.13E-03    | 5          | 6.27E-04  |

**Risk Calculations - Birth to 2 years**  
**Construction Phase 2C**



**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |          |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |          |
| 1        | 0.14257 | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   | Max      |
| 2        | 0.13369 | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   | 7.34E-01 |
| 3        | 0.12214 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 4        | 0.11318 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 5        | 0.10329 | 0.0102 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 6        | 0.0959  | 0.0102 | 9.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 7        | 0.18122 | 0.0102 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |          |
| 8        | 0.16599 | 0.0102 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 9        | 0.14564 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 10       | 0.13566 | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 11       | 0.11905 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 12       | 0.11174 | 0.0102 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 13       | 0.10516 | 0.0102 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 14       | 0.19891 | 0.0102 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |          |
| 15       | 0.18538 | 0.0102 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |          |
| 16       | 0.16647 | 0.0102 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 17       | 0.14661 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 18       | 0.13322 | 0.0102 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 19       | 0.12149 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 20       | 0.11331 | 0.0102 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |          |
| 21       | 0.43801 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |          |
| 22       | 0.5016  | 0.0102 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.33E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |          |
| 23       | 0.53845 | 0.0102 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |          |
| 24       | 0.55059 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |          |
| 25       | 0.61064 | 0.0102 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.49E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 26       | 0.59517 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 27       | 0.54814 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 28       | 0.48705 | 0.0102 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 29       | 0.41251 | 0.0102 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.38E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 30       | 0.27062 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 31       | 0.24985 | 0.0102 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 32       | 0.20383 | 0.0102 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 33       | 0.19347 | 0.0102 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 34       | 0.16069 | 0.0102 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 35       | 0.14853 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 36       | 0.1328  | 0.0102 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 37       | 0.12553 | 0.0102 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 38       | 0.59038 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.27E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 39       | 0.53496 | 0.0102 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 40       | 0.57248 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 41       | 0.58509 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 42       | 0.61645 | 0.0102 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.55E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 43       | 0.63781 | 0.0102 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 44       | 0.60659 | 0.0102 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 45       | 0.53649 | 0.0102 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 46       | 0.4596  | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.88E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 47       | 0.41777 | 0.0102 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 48       | 0.3294  | 0.0102 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 49       | 0.28523 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.03E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 50       | 0.25804 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 51       | 0.23121 | 0.0102 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 52       | 0.18436 | 0.0102 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 53       | 0.16289 | 0.0102 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 54       | 0.14939 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 55       | 0.15235 | 0.0102 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.01   |
| 56       | 0.55797 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 57       | 0.56885 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.04E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 58       | 0.58821 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.25E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 59       | 0.68345 | 0.0102 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 60       | 0.69254 | 0.0102 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.36E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 61       | 0.73699 | 0.0102 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.83E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 62       | 0.72167 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 63       | 0.62652 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 64       | 0.56525 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.00E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 65       | 0.46307 | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.92E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 66       | 0.46763 | 0.0102 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 67       | 0.32884 | 0.0102 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.49E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 68       | 0.29277 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 69       | 0.27065 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 70       | 0.26125 | 0.0102 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 71       | 0.20425 | 0.0102 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 72       | 0.1906  | 0.0102 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 73       | 0.22012 | 0.0102 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 74       | 0.62675 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 75       | 0.65056 | 0.0102 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 76       | 0.65456 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.95E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 77       | 0.73638 | 0.0102 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 78       | 0.8471  | 0.0102 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.00E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 79       | 0.88849 | 0.0102 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 80       | 0.90496 | 0.0102 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.61E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 81       | 0.82607 | 0.0102 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 82       | 0.70876 | 0.0102 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.53E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 83       | 0.59652 | 0.0102 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 84       | 0.67997 | 0.0102 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.22E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 85       | 0.34615 | 0.0102 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 86       | 0.31525 | 0.0102 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 87       | 0.30195 | 0.0102 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 88       | 0.28593 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.04E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 89       | 0.2696  | 0.0102 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 90       | 0.25777 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 91       | 0.7657  | 0.0102 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 92       | 0.78216 | 0.0102 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 93       | 0.89506 | 0.0102 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 94       | 0.94714 | 0.0102 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 95       | 1.04003 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 96       | 1.12421 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 97       | 1.04229 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 98       | 0.90305 | 0.0102 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 99       | 0.88258 | 0.0102 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 100      | 0.44117 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 101      | 0.36795 | 0.0102 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 102      | 0.34454 | 0.0102 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 103      | 0.32801 | 0.0102 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 104      | 0.30575 | 0.0102 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.25E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 105      | 0.27575 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 106      | 0.80913 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 107      | 0.83667 | 0.0102 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.89E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 108      | 0.94434 | 0.0102 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 109      | 0.98691 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 110      | 1.13153 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 111      | 1.3058  | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.39E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 112      | 1.41351 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 113      | 1.42196 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.51E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 114      | 1.36036 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 115      | 0.40925 | 0.0102 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 116      | 0.39445 | 0.0102 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 117      | 0.38313 | 0.0102 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 118      | 0.33537 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 119      | 0.28473 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 120      | 0.92954 | 0.0102 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 121      | 0.86551 | 0.0102 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 122      | 0.98739 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 123      | 1.16933 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.24E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 124      | 1.386   | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 125      | 1.58316 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 126      | 1.96907 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 127      | 2.35262 | 0.0102 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.50E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.20   |
| 128      | 0.65638 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 129      | 0.55176 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 130      | 0.46604 | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.95E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 131      | 0.38018 | 0.0102 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.04E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 132      | 0.26126 | 0.0102 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 133      | 0.85154 | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.04E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 134      | 1.07595 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 135      | 1.3543  | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 136      | 1.57548 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 137      | 1.93144 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 138      | 2.71283 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.23   |
| 139      | 5.71455 | 0.0102 | 5.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.07E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.49   |
| 140      | 0.67028 | 0.0102 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 141      | 0.52905 | 0.0102 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.62E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 142      | 0.43694 | 0.0102 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.64E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 143      | 0.29239 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 144      | 1.25505 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 145      | 1.65273 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 146      | 1.98418 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 147      | 2.64664 | 0.0102 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.81E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.23   |
| 148      | 3.89148 | 0.0102 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.13E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.33   |
| 149      | 3.51153 | 0.0102 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.73E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.30   |
| 150      | 2.03503 | 0.0102 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.16E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 151      | 1.50481 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.60E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 152      | 1.22329 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 153      | 0.70991 | 0.0102 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 154      | 0.58106 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 155      | 0.47279 | 0.0102 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 156      | 0.40353 | 0.0102 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 157      | 3.34251 | 0.0102 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.55E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.29   |
| 158      | 3.76257 | 0.0102 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.00E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.32   |
| 159      | 4.54045 | 0.0102 | 4.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.82E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.39   |
| 160      | 2.52972 | 0.0102 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.22   |
| 161      | 1.65138 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 162      | 1.21511 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 163      | 0.58478 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 164      | 0.51231 | 0.0102 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 165      | 0.43002 | 0.0102 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 166      | 5.34751 | 0.0102 | 5.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.68E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.46   |
| 167      | 2.93781 | 0.0102 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.12E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.25   |
| 168      | 2.01593 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 169      | 1.42521 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.51E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 170      | 1.08462 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 171      | 0.68161 | 0.0102 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.24E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 172      | 0.51579 | 0.0102 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 173      | 0.42776 | 0.0102 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 174      | 8.55485 | 0.0102 | 8.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.73   |
| 175      | 5.40053 | 0.0102 | 5.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.74E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.46   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 176      | 3.33391 | 0.0102 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.54E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.29   |
| 177      | 2.2635  | 0.0102 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.19   |
| 178      | 1.59628 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 179      | 1.15673 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 180      | 0.89425 | 0.0102 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 181      | 0.62061 | 0.0102 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 182      | 0.50601 | 0.0102 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 183      | 7.15077 | 0.0102 | 7.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.60E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.61   |
| 184      | 5.06388 | 0.0102 | 5.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.38E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.43   |
| 185      | 3.52857 | 0.0102 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.75E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.30   |
| 186      | 2.41297 | 0.0102 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.21   |
| 187      | 1.76478 | 0.0102 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.15   |
| 188      | 1.30975 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.39E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 189      | 1.01047 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 190      | 0.80384 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 191      | 8.32687 | 0.0102 | 8.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.84E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.71   |
| 192      | 6.02533 | 0.0102 | 6.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.40E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.52   |
| 193      | 4.45973 | 0.0102 | 4.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.74E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.38   |
| 194      | 3.33262 | 0.0102 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.54E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.29   |
| 195      | 2.46305 | 0.0102 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.62E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.21   |
| 196      | 1.84191 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 197      | 1.42077 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.51E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 198      | 1.08702 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 199      | 0.87584 | 0.0102 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 200      | 0.72192 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 201      | 3.24959 | 0.0102 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.45E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.28   |
| 202      | 4.95098 | 0.0102 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.26E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.43   |
| 203      | 5.8668  | 0.0102 | 6.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.50   |
| 204      | 6.38123 | 0.0102 | 6.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.78E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.55   |
| 205      | 5.89622 | 0.0102 | 6.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.26E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.51   |
| 206      | 4.88452 | 0.0102 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.42   |
| 207      | 3.92915 | 0.0102 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.17E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.34   |
| 208      | 3.09747 | 0.0102 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.29E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.27   |
| 209      | 2.38952 | 0.0102 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.54E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.21   |
| 210      | 1.86639 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 211      | 1.46676 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.56E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 212      | 1.14687 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 213      | 0.93847 | 0.0102 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 214      | 0.74904 | 0.0102 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 215      | 0.62804 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 216      | 1.51358 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 217      | 1.75108 | 0.0102 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.86E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.15   |
| 218      | 2.40965 | 0.0102 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.21   |
| 219      | 3.09162 | 0.0102 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.28E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.27   |
| 220      | 3.64843 | 0.0102 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.31   |
| 221      | 3.87704 | 0.0102 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.12E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.33   |
| 222      | 3.7245  | 0.0102 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.96E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.32   |
| 223      | 3.25928 | 0.0102 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.46E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.28   |
| 224      | 2.72345 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.23   |
| 225      | 2.20632 | 0.0102 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.19   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 226      | 1.77318 | 0.0102 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.15   |
| 227      | 1.44239 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 228      | 1.16513 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.24E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 229      | 0.94394 | 0.0102 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 230      | 0.77791 | 0.0102 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 231      | 0.62195 | 0.0102 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.61E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 232      | 1.05953 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 233      | 1.11661 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 234      | 1.47792 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 235      | 1.89467 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.01E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 236      | 2.31891 | 0.0102 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.20   |
| 237      | 2.71307 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.23   |
| 238      | 2.76677 | 0.0102 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.94E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.24   |
| 239      | 2.56931 | 0.0102 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.73E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.22   |
| 240      | 2.2825  | 0.0102 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.42E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.20   |
| 241      | 1.93631 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 242      | 1.63045 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 243      | 1.35634 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 244      | 1.13547 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 245      | 0.91896 | 0.0102 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 246      | 0.77965 | 0.0102 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 247      | 0.63206 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 248      | 0.86538 | 0.0102 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.19E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 249      | 0.85659 | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.10E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 250      | 1.00342 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 251      | 1.28849 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 252      | 1.63636 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 253      | 1.90198 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.02E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 254      | 2.02634 | 0.0102 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 255      | 2.01179 | 0.0102 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.17   |
| 256      | 1.88256 | 0.0102 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.00E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.16   |
| 257      | 1.68205 | 0.0102 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 258      | 1.46116 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 259      | 1.25462 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 260      | 1.07567 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 261      | 0.89369 | 0.0102 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.49E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 262      | 0.7632  | 0.0102 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 263      | 0.63167 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 264      | 0.58009 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 265      | 0.56073 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 266      | 0.57902 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 267      | 0.66488 | 0.0102 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 268      | 0.66061 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 269      | 0.74394 | 0.0102 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 270      | 0.92034 | 0.0102 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 271      | 1.1693  | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.24E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 272      | 1.38588 | 0.0102 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 273      | 1.53028 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |
| 274      | 1.58042 | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.14   |
| 275      | 1.5324  | 0.0102 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.13   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 276      | 1.43091 | 0.0102 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.52E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.12   |
| 277      | 1.28867 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 278      | 1.14049 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 279      | 1.0007  | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 280      | 0.85395 | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 281      | 0.7216  | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 282      | 0.60823 | 0.0102 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 283      | 0.46088 | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 284      | 0.44204 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 285      | 0.43325 | 0.0102 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.60E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 286      | 0.45841 | 0.0102 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 287      | 0.52307 | 0.0102 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 288      | 0.56987 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.05E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 289      | 0.59322 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 290      | 0.71744 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.62E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 291      | 0.87548 | 0.0102 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 292      | 1.04219 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 293      | 1.17605 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 294      | 1.25313 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 295      | 1.25792 | 0.0102 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.34E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.11   |
| 296      | 1.21473 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 297      | 1.13348 | 0.0102 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.10   |
| 298      | 1.02677 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 299      | 0.91652 | 0.0102 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 300      | 0.80208 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 301      | 0.6609  | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.02E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 302      | 0.58197 | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 303      | 0.39159 | 0.0102 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 304      | 0.35914 | 0.0102 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 305      | 0.35529 | 0.0102 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 306      | 0.34386 | 0.0102 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 307      | 0.35356 | 0.0102 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 308      | 0.39073 | 0.0102 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 309      | 0.44141 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 310      | 0.47846 | 0.0102 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 311      | 0.56418 | 0.0102 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.99E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 312      | 0.67741 | 0.0102 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 313      | 0.80426 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 314      | 0.92054 | 0.0102 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 315      | 1.00261 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 316      | 1.03928 | 0.0102 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 317      | 1.02828 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.09   |
| 318      | 0.98264 | 0.0102 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 319      | 0.91474 | 0.0102 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 320      | 0.82666 | 0.0102 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 321      | 0.74121 | 0.0102 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 322      | 0.6153  | 0.0102 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 323      | 0.55156 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 324      | 0.38105 | 0.0102 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.05E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 325      | 0.33126 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 326      | 0.32305 | 0.0102 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 327      | 0.29252 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 328      | 0.29248 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 329      | 0.317   | 0.0102 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 330      | 0.33066 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 331      | 0.35869 | 0.0102 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 332      | 0.40288 | 0.0102 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 333      | 0.4573  | 0.0102 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 334      | 0.53898 | 0.0102 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 335      | 0.63508 | 0.0102 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.75E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 336      | 0.73114 | 0.0102 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.77E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 337      | 0.80795 | 0.0102 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.58E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 338      | 0.85925 | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 339      | 0.87375 | 0.0102 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.08   |
| 340      | 0.85425 | 0.0102 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 341      | 0.81269 | 0.0102 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.07   |
| 342      | 0.72959 | 0.0102 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.75E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 343      | 0.67174 | 0.0102 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.14E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 344      | 0.57305 | 0.0102 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.09E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 345      | 0.51872 | 0.0102 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 346      | 0.29019 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 347      | 0.27864 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 348      | 0.26697 | 0.0102 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.84E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 349      | 0.25326 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 350      | 0.25562 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 351      | 0.2724  | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 352      | 0.28943 | 0.0102 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 353      | 0.3067  | 0.0102 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 354      | 0.33648 | 0.0102 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 355      | 0.3689  | 0.0102 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.92E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 356      | 0.44002 | 0.0102 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 357      | 0.51306 | 0.0102 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.45E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 358      | 0.59206 | 0.0102 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 359      | 0.66144 | 0.0102 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.03E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 360      | 0.71417 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 361      | 0.73968 | 0.0102 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 362      | 0.74345 | 0.0102 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 363      | 0.71982 | 0.0102 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 364      | 0.65107 | 0.0102 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.92E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.06   |
| 365      | 0.60983 | 0.0102 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 366      | 0.53056 | 0.0102 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.64E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 367      | 0.48574 | 0.0102 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 368      | 0.25159 | 0.0102 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 369      | 0.24678 | 0.0102 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.62E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 370      | 0.23335 | 0.0102 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 371      | 0.21774 | 0.0102 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 372      | 0.22662 | 0.0102 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.41E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 373      | 0.22108 | 0.0102 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 374      | 0.24111 | 0.0102 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 375      | 0.25062 | 0.0102 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/ |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|--------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)  |
| 376      | 0.27425 | 0.0102 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.02   |
| 377      | 0.29662 | 0.0102 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 378      | 0.31582 | 0.0102 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 379      | 0.36484 | 0.0102 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.88E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 380      | 0.40393 | 0.0102 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.03   |
| 381      | 0.48601 | 0.0102 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 382      | 0.5477  | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 383      | 0.59749 | 0.0102 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.35E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 384      | 0.62971 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 385      | 0.64012 | 0.0102 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.80E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 386      | 0.62903 | 0.0102 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 387      | 0.5807  | 0.0102 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 388      | 0.55072 | 0.0102 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.05   |
| 389      | 0.49043 | 0.0102 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.21E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |
| 390      | 0.45288 | 0.0102 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 0.00     | 0.04   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 1.45E-03 | 5   | 2.90E-04 | 1.74E-02 |
| 2  | 1.36E-03 | 5   | 2.72E-04 |          |
| 3  | 1.24E-03 | 5   | 2.48E-04 |          |
| 4  | 1.15E-03 | 5   | 2.30E-04 |          |
| 5  | 1.05E-03 | 5   | 2.10E-04 |          |
| 6  | 9.75E-04 | 5   | 1.95E-04 |          |
| 7  | 1.84E-03 | 5   | 3.68E-04 |          |
| 8  | 1.69E-03 | 5   | 3.37E-04 |          |
| 9  | 1.48E-03 | 5   | 2.96E-04 |          |
| 10 | 1.38E-03 | 5   | 2.76E-04 |          |
| 11 | 1.21E-03 | 5   | 2.42E-04 |          |
| 12 | 1.14E-03 | 5   | 2.27E-04 |          |
| 13 | 1.07E-03 | 5   | 2.14E-04 |          |
| 14 | 2.02E-03 | 5   | 4.04E-04 |          |
| 15 | 1.88E-03 | 5   | 3.77E-04 |          |
| 16 | 1.69E-03 | 5   | 3.38E-04 |          |
| 17 | 1.49E-03 | 5   | 2.98E-04 |          |
| 18 | 1.35E-03 | 5   | 2.71E-04 |          |
| 19 | 1.23E-03 | 5   | 2.47E-04 |          |
| 20 | 1.15E-03 | 5   | 2.30E-04 |          |
| 21 | 4.45E-03 | 5   | 8.90E-04 |          |
| 22 | 5.10E-03 | 5   | 1.02E-03 |          |
| 23 | 5.47E-03 | 5   | 1.09E-03 |          |
| 24 | 5.60E-03 | 5   | 1.12E-03 |          |
| 25 | 6.21E-03 | 5   | 1.24E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 6.05E-03    | 5          | 1.21E-03  |
| 27       | 5.57E-03    | 5          | 1.11E-03  |
| 28       | 4.95E-03    | 5          | 9.90E-04  |
| 29       | 4.19E-03    | 5          | 8.38E-04  |
| 30       | 2.75E-03    | 5          | 5.50E-04  |
| 31       | 2.54E-03    | 5          | 5.08E-04  |
| 32       | 2.07E-03    | 5          | 4.14E-04  |
| 33       | 1.97E-03    | 5          | 3.93E-04  |
| 34       | 1.63E-03    | 5          | 3.27E-04  |
| 35       | 1.51E-03    | 5          | 3.02E-04  |
| 36       | 1.35E-03    | 5          | 2.70E-04  |
| 37       | 1.28E-03    | 5          | 2.55E-04  |
| 38       | 6.00E-03    | 5          | 1.20E-03  |
| 39       | 5.44E-03    | 5          | 1.09E-03  |
| 40       | 5.82E-03    | 5          | 1.16E-03  |
| 41       | 5.95E-03    | 5          | 1.19E-03  |
| 42       | 6.26E-03    | 5          | 1.25E-03  |
| 43       | 6.48E-03    | 5          | 1.30E-03  |
| 44       | 6.16E-03    | 5          | 1.23E-03  |
| 45       | 5.45E-03    | 5          | 1.09E-03  |
| 46       | 4.67E-03    | 5          | 9.34E-04  |
| 47       | 4.25E-03    | 5          | 8.49E-04  |
| 48       | 3.35E-03    | 5          | 6.70E-04  |
| 49       | 2.90E-03    | 5          | 5.80E-04  |
| 50       | 2.62E-03    | 5          | 5.24E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 2.35E-03    | 5          | 4.70E-04  |
| 52       | 1.87E-03    | 5          | 3.75E-04  |
| 53       | 1.66E-03    | 5          | 3.31E-04  |
| 54       | 1.52E-03    | 5          | 3.04E-04  |
| 55       | 1.55E-03    | 5          | 3.10E-04  |
| 56       | 5.67E-03    | 5          | 1.13E-03  |
| 57       | 5.78E-03    | 5          | 1.16E-03  |
| 58       | 5.98E-03    | 5          | 1.20E-03  |
| 59       | 6.95E-03    | 5          | 1.39E-03  |
| 60       | 7.04E-03    | 5          | 1.41E-03  |
| 61       | 7.49E-03    | 5          | 1.50E-03  |
| 62       | 7.33E-03    | 5          | 1.47E-03  |
| 63       | 6.37E-03    | 5          | 1.27E-03  |
| 64       | 5.74E-03    | 5          | 1.15E-03  |
| 65       | 4.71E-03    | 5          | 9.41E-04  |
| 66       | 4.75E-03    | 5          | 9.50E-04  |
| 67       | 3.34E-03    | 5          | 6.68E-04  |
| 68       | 2.98E-03    | 5          | 5.95E-04  |
| 69       | 2.75E-03    | 5          | 5.50E-04  |
| 70       | 2.65E-03    | 5          | 5.31E-04  |
| 71       | 2.08E-03    | 5          | 4.15E-04  |
| 72       | 1.94E-03    | 5          | 3.87E-04  |
| 73       | 2.24E-03    | 5          | 4.47E-04  |
| 74       | 6.37E-03    | 5          | 1.27E-03  |
| 75       | 6.61E-03    | 5          | 1.32E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 6.65E-03    | 5          | 1.33E-03  |
| 77       | 7.48E-03    | 5          | 1.50E-03  |
| 78       | 8.61E-03    | 5          | 1.72E-03  |
| 79       | 9.03E-03    | 5          | 1.81E-03  |
| 80       | 9.20E-03    | 5          | 1.84E-03  |
| 81       | 8.39E-03    | 5          | 1.68E-03  |
| 82       | 7.20E-03    | 5          | 1.44E-03  |
| 83       | 6.06E-03    | 5          | 1.21E-03  |
| 84       | 6.91E-03    | 5          | 1.38E-03  |
| 85       | 3.52E-03    | 5          | 7.04E-04  |
| 86       | 3.20E-03    | 5          | 6.41E-04  |
| 87       | 3.07E-03    | 5          | 6.14E-04  |
| 88       | 2.91E-03    | 5          | 5.81E-04  |
| 89       | 2.74E-03    | 5          | 5.48E-04  |
| 90       | 2.62E-03    | 5          | 5.24E-04  |
| 91       | 7.78E-03    | 5          | 1.56E-03  |
| 92       | 7.95E-03    | 5          | 1.59E-03  |
| 93       | 9.10E-03    | 5          | 1.82E-03  |
| 94       | 9.63E-03    | 5          | 1.93E-03  |
| 95       | 1.06E-02    | 5          | 2.11E-03  |
| 96       | 1.14E-02    | 5          | 2.28E-03  |
| 97       | 1.06E-02    | 5          | 2.12E-03  |
| 98       | 9.18E-03    | 5          | 1.84E-03  |
| 99       | 8.97E-03    | 5          | 1.79E-03  |
| 100      | 4.48E-03    | 5          | 8.97E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 3.74E-03 | 5   | 7.48E-04 |
| 102           | 3.50E-03 | 5   | 7.00E-04 |
| 103           | 3.33E-03 | 5   | 6.67E-04 |
| 104           | 3.11E-03 | 5   | 6.21E-04 |
| 105           | 2.80E-03 | 5   | 5.60E-04 |
| 106           | 8.22E-03 | 5   | 1.64E-03 |
| 107           | 8.50E-03 | 5   | 1.70E-03 |
| 108           | 9.60E-03 | 5   | 1.92E-03 |
| 109           | 1.00E-02 | 5   | 2.01E-03 |
| 110           | 1.15E-02 | 5   | 2.30E-03 |
| 111           | 1.33E-02 | 5   | 2.65E-03 |
| 112           | 1.44E-02 | 5   | 2.87E-03 |
| 113           | 1.45E-02 | 5   | 2.89E-03 |
| 114           | 1.38E-02 | 5   | 2.76E-03 |
| 115           | 4.16E-03 | 5   | 8.32E-04 |
| 116           | 4.01E-03 | 5   | 8.02E-04 |
| 117           | 3.89E-03 | 5   | 7.79E-04 |
| 118           | 3.41E-03 | 5   | 6.82E-04 |
| 119           | 2.89E-03 | 5   | 5.79E-04 |
| 120           | 9.45E-03 | 5   | 1.89E-03 |
| 121           | 8.80E-03 | 5   | 1.76E-03 |
| 122           | 1.00E-02 | 5   | 2.01E-03 |
| 123           | 1.19E-02 | 5   | 2.38E-03 |
| 124           | 1.41E-02 | 5   | 2.82E-03 |
| 125           | 1.61E-02 | 5   | 3.22E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 126      | 2.00E-02 | 5   | 4.00E-03 |
| 127      | 2.39E-02 | 5   | 4.78E-03 |
| 128      | 6.67E-03 | 5   | 1.33E-03 |
| 129      | 5.61E-03 | 5   | 1.12E-03 |
| 130      | 4.74E-03 | 5   | 9.47E-04 |
| 131      | 3.86E-03 | 5   | 7.73E-04 |
| 132      | 2.66E-03 | 5   | 5.31E-04 |
| 133      | 8.65E-03 | 5   | 1.73E-03 |
| 134      | 1.09E-02 | 5   | 2.19E-03 |
| 135      | 1.38E-02 | 5   | 2.75E-03 |
| 136      | 1.60E-02 | 5   | 3.20E-03 |
| 137      | 1.96E-02 | 5   | 3.93E-03 |
| 138      | 2.76E-02 | 5   | 5.51E-03 |
| 139      | 5.81E-02 | 5   | 1.16E-02 |
| 140      | 6.81E-03 | 5   | 1.36E-03 |
| 141      | 5.38E-03 | 5   | 1.08E-03 |
| 142      | 4.44E-03 | 5   | 8.88E-04 |
| 143      | 2.97E-03 | 5   | 5.94E-04 |
| 144      | 1.28E-02 | 5   | 2.55E-03 |
| 145      | 1.68E-02 | 5   | 3.36E-03 |
| 146      | 2.02E-02 | 5   | 4.03E-03 |
| 147      | 2.69E-02 | 5   | 5.38E-03 |
| 148      | 3.95E-02 | 5   | 7.91E-03 |
| 149      | 3.57E-02 | 5   | 7.14E-03 |
| 150      | 2.07E-02 | 5   | 4.14E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 1.53E-02 | 5   | 3.06E-03 |
| 152           | 1.24E-02 | 5   | 2.49E-03 |
| 153           | 7.21E-03 | 5   | 1.44E-03 |
| 154           | 5.90E-03 | 5   | 1.18E-03 |
| 155           | 4.80E-03 | 5   | 9.61E-04 |
| 156           | 4.10E-03 | 5   | 8.20E-04 |
| 157           | 3.40E-02 | 5   | 6.79E-03 |
| 158           | 3.82E-02 | 5   | 7.65E-03 |
| 159           | 4.61E-02 | 5   | 9.23E-03 |
| 160           | 2.57E-02 | 5   | 5.14E-03 |
| 161           | 1.68E-02 | 5   | 3.36E-03 |
| 162           | 1.23E-02 | 5   | 2.47E-03 |
| 163           | 5.94E-03 | 5   | 1.19E-03 |
| 164           | 5.21E-03 | 5   | 1.04E-03 |
| 165           | 4.37E-03 | 5   | 8.74E-04 |
| 166           | 5.43E-02 | 5   | 1.09E-02 |
| 167           | 2.99E-02 | 5   | 5.97E-03 |
| 168           | 2.05E-02 | 5   | 4.10E-03 |
| 169           | 1.45E-02 | 5   | 2.90E-03 |
| 170           | 1.10E-02 | 5   | 2.20E-03 |
| 171           | 6.93E-03 | 5   | 1.39E-03 |
| 172           | 5.24E-03 | 5   | 1.05E-03 |
| 173           | 4.35E-03 | 5   | 8.69E-04 |
| 174           | 8.69E-02 | 5   | 1.74E-02 |
| 175           | 5.49E-02 | 5   | 1.10E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 3.39E-02 | 5   | 6.78E-03 |
| 177           | 2.30E-02 | 5   | 4.60E-03 |
| 178           | 1.62E-02 | 5   | 3.24E-03 |
| 179           | 1.18E-02 | 5   | 2.35E-03 |
| 180           | 9.09E-03 | 5   | 1.82E-03 |
| 181           | 6.31E-03 | 5   | 1.26E-03 |
| 182           | 5.14E-03 | 5   | 1.03E-03 |
| 183           | 7.27E-02 | 5   | 1.45E-02 |
| 184           | 5.15E-02 | 5   | 1.03E-02 |
| 185           | 3.59E-02 | 5   | 7.17E-03 |
| 186           | 2.45E-02 | 5   | 4.90E-03 |
| 187           | 1.79E-02 | 5   | 3.59E-03 |
| 188           | 1.33E-02 | 5   | 2.66E-03 |
| 189           | 1.03E-02 | 5   | 2.05E-03 |
| 190           | 8.17E-03 | 5   | 1.63E-03 |
| 191           | 8.46E-02 | 5   | 1.69E-02 |
| 192           | 6.12E-02 | 5   | 1.22E-02 |
| 193           | 4.53E-02 | 5   | 9.06E-03 |
| 194           | 3.39E-02 | 5   | 6.77E-03 |
| 195           | 2.50E-02 | 5   | 5.01E-03 |
| 196           | 1.87E-02 | 5   | 3.74E-03 |
| 197           | 1.44E-02 | 5   | 2.89E-03 |
| 198           | 1.10E-02 | 5   | 2.21E-03 |
| 199           | 8.90E-03 | 5   | 1.78E-03 |
| 200           | 7.34E-03 | 5   | 1.47E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 201      | 3.30E-02 | 5   | 6.60E-03 |
| 202      | 5.03E-02 | 5   | 1.01E-02 |
| 203      | 5.96E-02 | 5   | 1.19E-02 |
| 204      | 6.48E-02 | 5   | 1.30E-02 |
| 205      | 5.99E-02 | 5   | 1.20E-02 |
| 206      | 4.96E-02 | 5   | 9.93E-03 |
| 207      | 3.99E-02 | 5   | 7.99E-03 |
| 208      | 3.15E-02 | 5   | 6.30E-03 |
| 209      | 2.43E-02 | 5   | 4.86E-03 |
| 210      | 1.90E-02 | 5   | 3.79E-03 |
| 211      | 1.49E-02 | 5   | 2.98E-03 |
| 212      | 1.17E-02 | 5   | 2.33E-03 |
| 213      | 9.54E-03 | 5   | 1.91E-03 |
| 214      | 7.61E-03 | 5   | 1.52E-03 |
| 215      | 6.38E-03 | 5   | 1.28E-03 |
| 216      | 1.54E-02 | 5   | 3.08E-03 |
| 217      | 1.78E-02 | 5   | 3.56E-03 |
| 218      | 2.45E-02 | 5   | 4.90E-03 |
| 219      | 3.14E-02 | 5   | 6.28E-03 |
| 220      | 3.71E-02 | 5   | 7.42E-03 |
| 221      | 3.94E-02 | 5   | 7.88E-03 |
| 222      | 3.78E-02 | 5   | 7.57E-03 |
| 223      | 3.31E-02 | 5   | 6.62E-03 |
| 224      | 2.77E-02 | 5   | 5.54E-03 |
| 225      | 2.24E-02 | 5   | 4.48E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 226      | 1.80E-02 | 5   | 3.60E-03 |
| 227      | 1.47E-02 | 5   | 2.93E-03 |
| 228      | 1.18E-02 | 5   | 2.37E-03 |
| 229      | 9.59E-03 | 5   | 1.92E-03 |
| 230      | 7.91E-03 | 5   | 1.58E-03 |
| 231      | 6.32E-03 | 5   | 1.26E-03 |
| 232      | 1.08E-02 | 5   | 2.15E-03 |
| 233      | 1.13E-02 | 5   | 2.27E-03 |
| 234      | 1.50E-02 | 5   | 3.00E-03 |
| 235      | 1.93E-02 | 5   | 3.85E-03 |
| 236      | 2.36E-02 | 5   | 4.71E-03 |
| 237      | 2.76E-02 | 5   | 5.51E-03 |
| 238      | 2.81E-02 | 5   | 5.62E-03 |
| 239      | 2.61E-02 | 5   | 5.22E-03 |
| 240      | 2.32E-02 | 5   | 4.64E-03 |
| 241      | 1.97E-02 | 5   | 3.94E-03 |
| 242      | 1.66E-02 | 5   | 3.31E-03 |
| 243      | 1.38E-02 | 5   | 2.76E-03 |
| 244      | 1.15E-02 | 5   | 2.31E-03 |
| 245      | 9.34E-03 | 5   | 1.87E-03 |
| 246      | 7.92E-03 | 5   | 1.58E-03 |
| 247      | 6.42E-03 | 5   | 1.28E-03 |
| 248      | 8.79E-03 | 5   | 1.76E-03 |
| 249      | 8.71E-03 | 5   | 1.74E-03 |
| 250      | 1.02E-02 | 5   | 2.04E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 1.31E-02 | 5   | 2.62E-03 |
| 252           | 1.66E-02 | 5   | 3.33E-03 |
| 253           | 1.93E-02 | 5   | 3.87E-03 |
| 254           | 2.06E-02 | 5   | 4.12E-03 |
| 255           | 2.04E-02 | 5   | 4.09E-03 |
| 256           | 1.91E-02 | 5   | 3.83E-03 |
| 257           | 1.71E-02 | 5   | 3.42E-03 |
| 258           | 1.48E-02 | 5   | 2.97E-03 |
| 259           | 1.27E-02 | 5   | 2.55E-03 |
| 260           | 1.09E-02 | 5   | 2.19E-03 |
| 261           | 9.08E-03 | 5   | 1.82E-03 |
| 262           | 7.76E-03 | 5   | 1.55E-03 |
| 263           | 6.42E-03 | 5   | 1.28E-03 |
| 264           | 5.90E-03 | 5   | 1.18E-03 |
| 265           | 5.70E-03 | 5   | 1.14E-03 |
| 266           | 5.88E-03 | 5   | 1.18E-03 |
| 267           | 6.76E-03 | 5   | 1.35E-03 |
| 268           | 6.71E-03 | 5   | 1.34E-03 |
| 269           | 7.56E-03 | 5   | 1.51E-03 |
| 270           | 9.35E-03 | 5   | 1.87E-03 |
| 271           | 1.19E-02 | 5   | 2.38E-03 |
| 272           | 1.41E-02 | 5   | 2.82E-03 |
| 273           | 1.56E-02 | 5   | 3.11E-03 |
| 274           | 1.61E-02 | 5   | 3.21E-03 |
| 275           | 1.56E-02 | 5   | 3.11E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 276      | 1.45E-02 | 5   | 2.91E-03 |
| 277      | 1.31E-02 | 5   | 2.62E-03 |
| 278      | 1.16E-02 | 5   | 2.32E-03 |
| 279      | 1.02E-02 | 5   | 2.03E-03 |
| 280      | 8.68E-03 | 5   | 1.74E-03 |
| 281      | 7.33E-03 | 5   | 1.47E-03 |
| 282      | 6.18E-03 | 5   | 1.24E-03 |
| 283      | 4.68E-03 | 5   | 9.37E-04 |
| 284      | 4.49E-03 | 5   | 8.98E-04 |
| 285      | 4.40E-03 | 5   | 8.81E-04 |
| 286      | 4.66E-03 | 5   | 9.32E-04 |
| 287      | 5.32E-03 | 5   | 1.06E-03 |
| 288      | 5.79E-03 | 5   | 1.16E-03 |
| 289      | 6.03E-03 | 5   | 1.21E-03 |
| 290      | 7.29E-03 | 5   | 1.46E-03 |
| 291      | 8.90E-03 | 5   | 1.78E-03 |
| 292      | 1.06E-02 | 5   | 2.12E-03 |
| 293      | 1.20E-02 | 5   | 2.39E-03 |
| 294      | 1.27E-02 | 5   | 2.55E-03 |
| 295      | 1.28E-02 | 5   | 2.56E-03 |
| 296      | 1.23E-02 | 5   | 2.47E-03 |
| 297      | 1.15E-02 | 5   | 2.30E-03 |
| 298      | 1.04E-02 | 5   | 2.09E-03 |
| 299      | 9.31E-03 | 5   | 1.86E-03 |
| 300      | 8.15E-03 | 5   | 1.63E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 301      | 6.72E-03 | 5   | 1.34E-03 |
| 302      | 5.91E-03 | 5   | 1.18E-03 |
| 303      | 3.98E-03 | 5   | 7.96E-04 |
| 304      | 3.65E-03 | 5   | 7.30E-04 |
| 305      | 3.61E-03 | 5   | 7.22E-04 |
| 306      | 3.49E-03 | 5   | 6.99E-04 |
| 307      | 3.59E-03 | 5   | 7.19E-04 |
| 308      | 3.97E-03 | 5   | 7.94E-04 |
| 309      | 4.49E-03 | 5   | 8.97E-04 |
| 310      | 4.86E-03 | 5   | 9.72E-04 |
| 311      | 5.73E-03 | 5   | 1.15E-03 |
| 312      | 6.88E-03 | 5   | 1.38E-03 |
| 313      | 8.17E-03 | 5   | 1.63E-03 |
| 314      | 9.35E-03 | 5   | 1.87E-03 |
| 315      | 1.02E-02 | 5   | 2.04E-03 |
| 316      | 1.06E-02 | 5   | 2.11E-03 |
| 317      | 1.04E-02 | 5   | 2.09E-03 |
| 318      | 9.99E-03 | 5   | 2.00E-03 |
| 319      | 9.30E-03 | 5   | 1.86E-03 |
| 320      | 8.40E-03 | 5   | 1.68E-03 |
| 321      | 7.53E-03 | 5   | 1.51E-03 |
| 322      | 6.25E-03 | 5   | 1.25E-03 |
| 323      | 5.61E-03 | 5   | 1.12E-03 |
| 324      | 3.87E-03 | 5   | 7.74E-04 |
| 325      | 3.37E-03 | 5   | 6.73E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 326           | 3.28E-03 | 5   | 6.57E-04 |
| 327           | 2.97E-03 | 5   | 5.95E-04 |
| 328           | 2.97E-03 | 5   | 5.94E-04 |
| 329           | 3.22E-03 | 5   | 6.44E-04 |
| 330           | 3.36E-03 | 5   | 6.72E-04 |
| 331           | 3.65E-03 | 5   | 7.29E-04 |
| 332           | 4.09E-03 | 5   | 8.19E-04 |
| 333           | 4.65E-03 | 5   | 9.29E-04 |
| 334           | 5.48E-03 | 5   | 1.10E-03 |
| 335           | 6.45E-03 | 5   | 1.29E-03 |
| 336           | 7.43E-03 | 5   | 1.49E-03 |
| 337           | 8.21E-03 | 5   | 1.64E-03 |
| 338           | 8.73E-03 | 5   | 1.75E-03 |
| 339           | 8.88E-03 | 5   | 1.78E-03 |
| 340           | 8.68E-03 | 5   | 1.74E-03 |
| 341           | 8.26E-03 | 5   | 1.65E-03 |
| 342           | 7.41E-03 | 5   | 1.48E-03 |
| 343           | 6.83E-03 | 5   | 1.37E-03 |
| 344           | 5.82E-03 | 5   | 1.16E-03 |
| 345           | 5.27E-03 | 5   | 1.05E-03 |
| 346           | 2.95E-03 | 5   | 5.90E-04 |
| 347           | 2.83E-03 | 5   | 5.66E-04 |
| 348           | 2.71E-03 | 5   | 5.43E-04 |
| 349           | 2.57E-03 | 5   | 5.15E-04 |
| 350           | 2.60E-03 | 5   | 5.20E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 351      | 2.77E-03 | 5   | 5.54E-04 |
| 352      | 2.94E-03 | 5   | 5.88E-04 |
| 353      | 3.12E-03 | 5   | 6.23E-04 |
| 354      | 3.42E-03 | 5   | 6.84E-04 |
| 355      | 3.75E-03 | 5   | 7.50E-04 |
| 356      | 4.47E-03 | 5   | 8.94E-04 |
| 357      | 5.21E-03 | 5   | 1.04E-03 |
| 358      | 6.02E-03 | 5   | 1.20E-03 |
| 359      | 6.72E-03 | 5   | 1.34E-03 |
| 360      | 7.26E-03 | 5   | 1.45E-03 |
| 361      | 7.52E-03 | 5   | 1.50E-03 |
| 362      | 7.56E-03 | 5   | 1.51E-03 |
| 363      | 7.32E-03 | 5   | 1.46E-03 |
| 364      | 6.62E-03 | 5   | 1.32E-03 |
| 365      | 6.20E-03 | 5   | 1.24E-03 |
| 366      | 5.39E-03 | 5   | 1.08E-03 |
| 367      | 4.94E-03 | 5   | 9.87E-04 |
| 368      | 2.56E-03 | 5   | 5.11E-04 |
| 369      | 2.51E-03 | 5   | 5.02E-04 |
| 370      | 2.37E-03 | 5   | 4.74E-04 |
| 371      | 2.21E-03 | 5   | 4.43E-04 |
| 372      | 2.30E-03 | 5   | 4.61E-04 |
| 373      | 2.25E-03 | 5   | 4.49E-04 |
| 374      | 2.45E-03 | 5   | 4.90E-04 |
| 375      | 2.55E-03 | 5   | 5.09E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 2C**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 2.79E-03    | 5          | 5.57E-04  |
| 377      | 3.01E-03    | 5          | 6.03E-04  |
| 378      | 3.21E-03    | 5          | 6.42E-04  |
| 379      | 3.71E-03    | 5          | 7.42E-04  |
| 380      | 4.10E-03    | 5          | 8.21E-04  |
| 381      | 4.94E-03    | 5          | 9.88E-04  |
| 382      | 5.57E-03    | 5          | 1.11E-03  |
| 383      | 6.07E-03    | 5          | 1.21E-03  |
| 384      | 6.40E-03    | 5          | 1.28E-03  |
| 385      | 6.51E-03    | 5          | 1.30E-03  |
| 386      | 6.39E-03    | 5          | 1.28E-03  |
| 387      | 5.90E-03    | 5          | 1.18E-03  |
| 388      | 5.60E-03    | 5          | 1.12E-03  |
| 389      | 4.98E-03    | 5          | 9.97E-04  |
| 390      | 4.60E-03    | 5          | 9.20E-04  |



**Risk Calculations - Birth to 2 years**  
**Construction Phase 3A**

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |          |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |          |
| 1        | 0.14257 | 0.0018 | 2.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.73E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-09  | 1.5E-03 | Max      |
| 2        | 0.13369 | 0.0018 | 2.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-09  | 1.4E-03 | 8.81E-02 |
| 3        | 0.12214 | 0.0018 | 2.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-09  | 1.3E-03 |          |
| 4        | 0.11318 | 0.0018 | 2.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.16E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-09  | 1.2E-03 |          |
| 5        | 0.10329 | 0.0018 | 1.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-09  | 1.1E-03 |          |
| 6        | 0.0959  | 0.0018 | 1.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 9.9E-10  | 9.9E-04 |          |
| 7        | 0.18122 | 0.0018 | 3.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.47E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-09  | 1.9E-03 |          |
| 8        | 0.16599 | 0.0018 | 3.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.17E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-09  | 1.7E-03 |          |
| 9        | 0.14564 | 0.0018 | 2.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.79E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-09  | 1.5E-03 |          |
| 10       | 0.13566 | 0.0018 | 2.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-09  | 1.4E-03 |          |
| 11       | 0.11905 | 0.0018 | 2.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.28E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-09  | 1.2E-03 |          |
| 12       | 0.11174 | 0.0018 | 2.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-09  | 1.2E-03 |          |
| 13       | 0.10516 | 0.0018 | 1.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.01E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-09  | 1.1E-03 |          |
| 14       | 0.19891 | 0.0018 | 3.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.80E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-09  | 2.0E-03 |          |
| 15       | 0.18538 | 0.0018 | 3.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.55E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-09  | 1.9E-03 |          |
| 16       | 0.16647 | 0.0018 | 3.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.18E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-09  | 1.7E-03 |          |
| 17       | 0.14661 | 0.0018 | 2.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-09  | 1.5E-03 |          |
| 18       | 0.13322 | 0.0018 | 2.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.55E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-09  | 1.4E-03 |          |
| 19       | 0.12149 | 0.0018 | 2.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.32E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-09  | 1.3E-03 |          |
| 20       | 0.11331 | 0.0018 | 2.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-09  | 1.2E-03 |          |
| 21       | 0.43801 | 0.0018 | 8.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.38E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09  | 4.5E-03 |          |
| 22       | 0.5016  | 0.0018 | 9.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-09  | 5.2E-03 |          |
| 23       | 0.53845 | 0.0018 | 9.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-09  | 5.5E-03 |          |
| 24       | 0.55059 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-09  | 5.7E-03 |          |
| 25       | 0.61064 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-09  | 6.3E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         | Consta |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/M |         |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|------------------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)               | ill)    |
| 26       | 0.59517 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09          | 6.1E-03 |
| 27       | 0.54814 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-09          | 5.6E-03 |
| 28       | 0.48705 | 0.0018 | 8.9E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.31E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-09          | 5.0E-03 |
| 29       | 0.41251 | 0.0018 | 7.5E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.89E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-09          | 4.3E-03 |
| 30       | 0.27062 | 0.0018 | 5.0E-04 | 1090 | 1 | 0.96 | 1E-06 | 5.18E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09          | 2.8E-03 |
| 31       | 0.24985 | 0.0018 | 4.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 4.78E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-09          | 2.6E-03 |
| 32       | 0.20383 | 0.0018 | 3.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 3.90E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-09          | 2.1E-03 |
| 33       | 0.19347 | 0.0018 | 3.5E-04 | 1090 | 1 | 0.96 | 1E-06 | 3.70E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-09          | 2.0E-03 |
| 34       | 0.16069 | 0.0018 | 2.9E-04 | 1090 | 1 | 0.96 | 1E-06 | 3.07E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-09          | 1.7E-03 |
| 35       | 0.14853 | 0.0018 | 2.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 2.84E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-09          | 1.5E-03 |
| 36       | 0.1328  | 0.0018 | 2.4E-04 | 1090 | 1 | 0.96 | 1E-06 | 2.54E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-09          | 1.4E-03 |
| 37       | 0.12553 | 0.0018 | 2.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 2.40E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-09          | 1.3E-03 |
| 38       | 0.59038 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09          | 6.1E-03 |
| 39       | 0.53496 | 0.0018 | 9.8E-04 | 1090 | 1 | 0.96 | 1E-06 | 1.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-09          | 5.5E-03 |
| 40       | 0.57248 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.09E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-09          | 5.9E-03 |
| 41       | 0.58509 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09          | 6.0E-03 |
| 42       | 0.61645 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.18E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.4E-09          | 6.4E-03 |
| 43       | 0.63781 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.6E-09          | 6.6E-03 |
| 44       | 0.60659 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-09          | 6.3E-03 |
| 45       | 0.53649 | 0.0018 | 9.8E-04 | 1090 | 1 | 0.96 | 1E-06 | 1.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-09          | 5.5E-03 |
| 46       | 0.4596  | 0.0018 | 8.4E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.79E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-09          | 4.7E-03 |
| 47       | 0.41777 | 0.0018 | 7.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.99E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-09          | 4.3E-03 |
| 48       | 0.3294  | 0.0018 | 6.0E-04 | 1090 | 1 | 0.96 | 1E-06 | 6.30E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-09          | 3.4E-03 |
| 49       | 0.28523 | 0.0018 | 5.2E-04 | 1090 | 1 | 0.96 | 1E-06 | 5.45E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-09          | 2.9E-03 |
| 50       | 0.25804 | 0.0018 | 4.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 4.93E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-09          | 2.7E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 51       | 0.23121 | 0.0018 | 4.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.42E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-09  | 2.4E-03 |
| 52       | 0.18436 | 0.0018 | 3.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.53E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-09  | 1.9E-03 |
| 53       | 0.16289 | 0.0018 | 3.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.12E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-09  | 1.7E-03 |
| 54       | 0.14939 | 0.0018 | 2.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.86E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-09  | 1.5E-03 |
| 55       | 0.15235 | 0.0018 | 2.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-09  | 1.6E-03 |
| 56       | 0.55797 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-09  | 5.7E-03 |
| 57       | 0.56885 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-09  | 5.9E-03 |
| 58       | 0.58821 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09  | 6.1E-03 |
| 59       | 0.68345 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-09  | 7.0E-03 |
| 60       | 0.69254 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-09  | 7.1E-03 |
| 61       | 0.73699 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-09  | 7.6E-03 |
| 62       | 0.72167 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09  | 7.4E-03 |
| 63       | 0.62652 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09  | 6.5E-03 |
| 64       | 0.56525 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-09  | 5.8E-03 |
| 65       | 0.46307 | 0.0018 | 8.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.86E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.8E-09  | 4.8E-03 |
| 66       | 0.46763 | 0.0018 | 8.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.94E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.8E-09  | 4.8E-03 |
| 67       | 0.32884 | 0.0018 | 6.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.29E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-09  | 3.4E-03 |
| 68       | 0.29277 | 0.0018 | 5.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.60E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09  | 3.0E-03 |
| 69       | 0.27065 | 0.0018 | 5.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.18E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09  | 2.8E-03 |
| 70       | 0.26125 | 0.0018 | 4.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.00E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-09  | 2.7E-03 |
| 71       | 0.20425 | 0.0018 | 3.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.91E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-09  | 2.1E-03 |
| 72       | 0.1906  | 0.0018 | 3.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 3.65E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-09  | 2.0E-03 |
| 73       | 0.22012 | 0.0018 | 4.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.21E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-09  | 2.3E-03 |
| 74       | 0.62675 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09  | 6.5E-03 |
| 75       | 0.65056 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.24E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.7E-09  | 6.7E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 76       | 0.65456 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.7E-09  | 6.7E-03 |
| 77       | 0.73638 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-09  | 7.6E-03 |
| 78       | 0.8471  | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.7E-09  | 8.7E-03 |
| 79       | 0.88849 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-09  | 9.2E-03 |
| 80       | 0.90496 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.3E-09  | 9.3E-03 |
| 81       | 0.82607 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.5E-09  | 8.5E-03 |
| 82       | 0.70876 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.3E-09  | 7.3E-03 |
| 83       | 0.59652 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09  | 6.1E-03 |
| 84       | 0.67997 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-09  | 7.0E-03 |
| 85       | 0.34615 | 0.0018 | 6.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.62E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-09  | 3.6E-03 |
| 86       | 0.31525 | 0.0018 | 5.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.03E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-09  | 3.2E-03 |
| 87       | 0.30195 | 0.0018 | 5.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.77E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.1E-09  | 3.1E-03 |
| 88       | 0.28593 | 0.0018 | 5.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.47E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-09  | 2.9E-03 |
| 89       | 0.2696  | 0.0018 | 4.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09  | 2.8E-03 |
| 90       | 0.25777 | 0.0018 | 4.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.93E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-09  | 2.7E-03 |
| 91       | 0.7657  | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.9E-09  | 7.9E-03 |
| 92       | 0.78216 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.1E-09  | 8.1E-03 |
| 93       | 0.89506 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-09  | 9.2E-03 |
| 94       | 0.94714 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.8E-09  | 9.8E-03 |
| 95       | 1.04003 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 96       | 1.12421 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.15E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 97       | 1.04229 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 98       | 0.90305 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.3E-09  | 9.3E-03 |
| 99       | 0.88258 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.1E-09  | 9.1E-03 |
| 100      | 0.44117 | 0.0018 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.44E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09  | 4.5E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 101      | 0.36795 | 0.0018 | 6.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.04E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-09  | 3.8E-03 |
| 102      | 0.34454 | 0.0018 | 6.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-09  | 3.6E-03 |
| 103      | 0.32801 | 0.0018 | 6.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.27E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-09  | 3.4E-03 |
| 104      | 0.30575 | 0.0018 | 5.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.85E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-09  | 3.2E-03 |
| 105      | 0.27575 | 0.0018 | 5.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.27E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09  | 2.8E-03 |
| 106      | 0.80913 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09  | 8.3E-03 |
| 107      | 0.83667 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.6E-09  | 8.6E-03 |
| 108      | 0.94434 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.7E-09  | 9.7E-03 |
| 109      | 0.98691 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |
| 110      | 1.13153 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 111      | 1.3058  | 0.0018 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.50E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08  | 1.3E-02 |
| 112      | 1.41351 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.70E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 113      | 1.42196 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 114      | 1.36036 | 0.0018 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08  | 1.4E-02 |
| 115      | 0.40925 | 0.0018 | 7.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.83E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-09  | 4.2E-03 |
| 116      | 0.39445 | 0.0018 | 7.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.54E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-09  | 4.1E-03 |
| 117      | 0.38313 | 0.0018 | 7.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.33E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-09  | 3.9E-03 |
| 118      | 0.33537 | 0.0018 | 6.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.41E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-09  | 3.5E-03 |
| 119      | 0.28473 | 0.0018 | 5.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.45E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-09  | 2.9E-03 |
| 120      | 0.92954 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.78E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.6E-09  | 9.6E-03 |
| 121      | 0.86551 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-09  | 8.9E-03 |
| 122      | 0.98739 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |
| 123      | 1.16933 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.24E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 124      | 1.386   | 0.0018 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.65E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08  | 1.4E-02 |
| 125      | 1.58316 | 0.0018 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08  | 1.6E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 126      | 1.96907 | 0.0018 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.77E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08  | 2.0E-02 |
| 127      | 2.35262 | 0.0018 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08  | 2.4E-02 |
| 128      | 0.65638 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-09  | 6.8E-03 |
| 129      | 0.55176 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-09  | 5.7E-03 |
| 130      | 0.46604 | 0.0018 | 8.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.91E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.8E-09  | 4.8E-03 |
| 131      | 0.38018 | 0.0018 | 7.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.27E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-09  | 3.9E-03 |
| 132      | 0.26126 | 0.0018 | 4.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.00E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-09  | 2.7E-03 |
| 133      | 0.85154 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-09  | 8.8E-03 |
| 134      | 1.07595 | 0.0018 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 135      | 1.3543  | 0.0018 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.59E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08  | 1.4E-02 |
| 136      | 1.57548 | 0.0018 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.01E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08  | 1.6E-02 |
| 137      | 1.93144 | 0.0018 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08  | 2.0E-02 |
| 138      | 2.71283 | 0.0018 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.19E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08  | 2.8E-02 |
| 139      | 5.71455 | 0.0018 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-08  | 5.9E-02 |
| 140      | 0.67028 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.9E-09  | 6.9E-03 |
| 141      | 0.52905 | 0.0018 | 9.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-09  | 5.5E-03 |
| 142      | 0.43694 | 0.0018 | 8.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.36E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09  | 4.5E-03 |
| 143      | 0.29239 | 0.0018 | 5.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09  | 3.0E-03 |
| 144      | 1.25505 | 0.0018 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08  | 1.3E-02 |
| 145      | 1.65273 | 0.0018 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08  | 1.7E-02 |
| 146      | 1.98418 | 0.0018 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08  | 2.0E-02 |
| 147      | 2.64664 | 0.0018 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.06E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-08  | 2.7E-02 |
| 148      | 3.89148 | 0.0018 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.44E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08  | 4.0E-02 |
| 149      | 3.51153 | 0.0018 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08  | 3.6E-02 |
| 150      | 2.03503 | 0.0018 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08  | 2.1E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 151      | 1.50481 | 0.0018 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08  | 1.6E-02 |
| 152      | 1.22329 | 0.0018 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08  | 1.3E-02 |
| 153      | 0.70991 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.3E-09  | 7.3E-03 |
| 154      | 0.58106 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09  | 6.0E-03 |
| 155      | 0.47279 | 0.0018 | 8.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.04E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.9E-09  | 4.9E-03 |
| 156      | 0.40353 | 0.0018 | 7.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.72E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-09  | 4.2E-03 |
| 157      | 3.34251 | 0.0018 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 158      | 3.76257 | 0.0018 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08  | 3.9E-02 |
| 159      | 4.54045 | 0.0018 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-08  | 4.7E-02 |
| 160      | 2.52972 | 0.0018 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.84E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-08  | 2.6E-02 |
| 161      | 1.65138 | 0.0018 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08  | 1.7E-02 |
| 162      | 1.21511 | 0.0018 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08  | 1.3E-02 |
| 163      | 0.58478 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09  | 6.0E-03 |
| 164      | 0.51231 | 0.0018 | 9.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.80E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-09  | 5.3E-03 |
| 165      | 0.43002 | 0.0018 | 7.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.22E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.4E-09  | 4.4E-03 |
| 166      | 5.34751 | 0.0018 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-08  | 5.5E-02 |
| 167      | 2.93781 | 0.0018 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.62E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08  | 3.0E-02 |
| 168      | 2.01593 | 0.0018 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08  | 2.1E-02 |
| 169      | 1.42521 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 170      | 1.08462 | 0.0018 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.07E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 171      | 0.68161 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-09  | 7.0E-03 |
| 172      | 0.51579 | 0.0018 | 9.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.86E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-09  | 5.3E-03 |
| 173      | 0.42776 | 0.0018 | 7.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.18E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.4E-09  | 4.4E-03 |
| 174      | 8.55485 | 0.0018 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-08  | 8.8E-02 |
| 175      | 5.40053 | 0.0018 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08  | 5.6E-02 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 176      | 3.33391 | 0.0018 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 177      | 2.2635  | 0.0018 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-08  | 2.3E-02 |
| 178      | 1.59628 | 0.0018 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08  | 1.6E-02 |
| 179      | 1.15673 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 180      | 0.89425 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-09  | 9.2E-03 |
| 181      | 0.62061 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.4E-09  | 6.4E-03 |
| 182      | 0.50601 | 0.0018 | 9.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.68E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-09  | 5.2E-03 |
| 183      | 7.15077 | 0.0018 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-08  | 7.4E-02 |
| 184      | 5.06388 | 0.0018 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-08  | 5.2E-02 |
| 185      | 3.52857 | 0.0018 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08  | 3.6E-02 |
| 186      | 2.41297 | 0.0018 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.61E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 187      | 1.76478 | 0.0018 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08  | 1.8E-02 |
| 188      | 1.30975 | 0.0018 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.50E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08  | 1.3E-02 |
| 189      | 1.01047 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |
| 190      | 0.80384 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.54E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09  | 8.3E-03 |
| 191      | 8.32687 | 0.0018 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.59E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.6E-08  | 8.6E-02 |
| 192      | 6.02533 | 0.0018 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.2E-08  | 6.2E-02 |
| 193      | 4.45973 | 0.0018 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.53E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08  | 4.6E-02 |
| 194      | 3.33262 | 0.0018 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 195      | 2.46305 | 0.0018 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 196      | 1.84191 | 0.0018 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.52E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08  | 1.9E-02 |
| 197      | 1.42077 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 198      | 1.08702 | 0.0018 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 199      | 0.87584 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.0E-09  | 9.0E-03 |
| 200      | 0.72192 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09  | 7.4E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 201      | 3.24959 | 0.0018 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-08  | 3.3E-02 |
| 202      | 4.95098 | 0.0018 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.47E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.1E-08  | 5.1E-02 |
| 203      | 5.8668  | 0.0018 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-08  | 6.0E-02 |
| 204      | 6.38123 | 0.0018 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.6E-08  | 6.6E-02 |
| 205      | 5.89622 | 0.0018 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-08  | 6.1E-02 |
| 206      | 4.88452 | 0.0018 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.34E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-08  | 5.0E-02 |
| 207      | 3.92915 | 0.0018 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.51E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08  | 4.0E-02 |
| 208      | 3.09747 | 0.0018 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08  | 3.2E-02 |
| 209      | 2.38952 | 0.0018 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.57E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 210      | 1.86639 | 0.0018 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.57E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08  | 1.9E-02 |
| 211      | 1.46676 | 0.0018 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 212      | 1.14687 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.19E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 213      | 0.93847 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.7E-09  | 9.7E-03 |
| 214      | 0.74904 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.7E-09  | 7.7E-03 |
| 215      | 0.62804 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09  | 6.5E-03 |
| 216      | 1.51358 | 0.0018 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08  | 1.6E-02 |
| 217      | 1.75108 | 0.0018 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.35E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08  | 1.8E-02 |
| 218      | 2.40965 | 0.0018 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.61E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 219      | 3.09162 | 0.0018 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08  | 3.2E-02 |
| 220      | 3.64843 | 0.0018 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.98E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08  | 3.8E-02 |
| 221      | 3.87704 | 0.0018 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08  | 4.0E-02 |
| 222      | 3.7245  | 0.0018 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08  | 3.8E-02 |
| 223      | 3.25928 | 0.0018 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 224      | 2.72345 | 0.0018 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08  | 2.8E-02 |
| 225      | 2.20632 | 0.0018 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-08  | 2.3E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 226      | 1.77318 | 0.0018 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08  | 1.8E-02 |
| 227      | 1.44239 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.76E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 228      | 1.16513 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 229      | 0.94394 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.7E-09  | 9.7E-03 |
| 230      | 0.77791 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.49E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.0E-09  | 8.0E-03 |
| 231      | 0.62195 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.4E-09  | 6.4E-03 |
| 232      | 1.05953 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 233      | 1.11661 | 0.0018 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 234      | 1.47792 | 0.0018 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.83E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 235      | 1.89467 | 0.0018 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.62E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08  | 2.0E-02 |
| 236      | 2.31891 | 0.0018 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08  | 2.4E-02 |
| 237      | 2.71307 | 0.0018 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.19E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08  | 2.8E-02 |
| 238      | 2.76677 | 0.0018 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.29E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08  | 2.9E-02 |
| 239      | 2.56931 | 0.0018 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-08  | 2.6E-02 |
| 240      | 2.2825  | 0.0018 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08  | 2.4E-02 |
| 241      | 1.93631 | 0.0018 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.70E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08  | 2.0E-02 |
| 242      | 1.63045 | 0.0018 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08  | 1.7E-02 |
| 243      | 1.35634 | 0.0018 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.59E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08  | 1.4E-02 |
| 244      | 1.13547 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08  | 1.2E-02 |
| 245      | 0.91896 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.5E-09  | 9.5E-03 |
| 246      | 0.77965 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.49E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.0E-09  | 8.0E-03 |
| 247      | 0.63206 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09  | 6.5E-03 |
| 248      | 0.86538 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-09  | 8.9E-03 |
| 249      | 0.85659 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-09  | 8.8E-03 |
| 250      | 1.00342 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0-2) | (Risk/M ill) |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|------------|--------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH |            |              |
| 251      | 1.28849 | 0.0018 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 252      | 1.63636 | 0.0018 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08    | 1.7E-02      |
| 253      | 1.90198 | 0.0018 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08    | 2.0E-02      |
| 254      | 2.02634 | 0.0018 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08    | 2.1E-02      |
| 255      | 2.01179 | 0.0018 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.85E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08    | 2.1E-02      |
| 256      | 1.88256 | 0.0018 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08    | 1.9E-02      |
| 257      | 1.68205 | 0.0018 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08    | 1.7E-02      |
| 258      | 1.46116 | 0.0018 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08    | 1.5E-02      |
| 259      | 1.25462 | 0.0018 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 260      | 1.07567 | 0.0018 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08    | 1.1E-02      |
| 261      | 0.89369 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-09    | 9.2E-03      |
| 262      | 0.7632  | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.9E-09    | 7.9E-03      |
| 263      | 0.63167 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09    | 6.5E-03      |
| 264      | 0.58009 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09    | 6.0E-03      |
| 265      | 0.56073 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-09    | 5.8E-03      |
| 266      | 0.57902 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09    | 6.0E-03      |
| 267      | 0.66488 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.9E-09    | 6.9E-03      |
| 268      | 0.66061 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-09    | 6.8E-03      |
| 269      | 0.74394 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.7E-09    | 7.7E-03      |
| 270      | 0.92034 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.5E-09    | 9.5E-03      |
| 271      | 1.1693  | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.24E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08    | 1.2E-02      |
| 272      | 1.38588 | 0.0018 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.65E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08    | 1.4E-02      |
| 273      | 1.53028 | 0.0018 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08    | 1.6E-02      |
| 274      | 1.58042 | 0.0018 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08    | 1.6E-02      |
| 275      | 1.5324  | 0.0018 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08    | 1.6E-02      |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0-2) | (Risk/M ill) |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|------------|--------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH |            |              |
| 276      | 1.43091 | 0.0018 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.74E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08    | 1.5E-02      |
| 277      | 1.28867 | 0.0018 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 278      | 1.14049 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.18E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08    | 1.2E-02      |
| 279      | 1.0007  | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08    | 1.0E-02      |
| 280      | 0.85395 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-09    | 8.8E-03      |
| 281      | 0.7216  | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09    | 7.4E-03      |
| 282      | 0.60823 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-09    | 6.3E-03      |
| 283      | 0.46088 | 0.0018 | 8.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.81E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-09    | 4.7E-03      |
| 284      | 0.44204 | 0.0018 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.45E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-09    | 4.6E-03      |
| 285      | 0.43325 | 0.0018 | 7.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.29E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09    | 4.5E-03      |
| 286      | 0.45841 | 0.0018 | 8.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.77E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-09    | 4.7E-03      |
| 287      | 0.52307 | 0.0018 | 9.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.4E-09    | 5.4E-03      |
| 288      | 0.56987 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-09    | 5.9E-03      |
| 289      | 0.59322 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09    | 6.1E-03      |
| 290      | 0.71744 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09    | 7.4E-03      |
| 291      | 0.87548 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.0E-09    | 9.0E-03      |
| 292      | 1.04219 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08    | 1.1E-02      |
| 293      | 1.17605 | 0.0018 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08    | 1.2E-02      |
| 294      | 1.25313 | 0.0018 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 295      | 1.25792 | 0.0018 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 296      | 1.21473 | 0.0018 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08    | 1.3E-02      |
| 297      | 1.13348 | 0.0018 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08    | 1.2E-02      |
| 298      | 1.02677 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08    | 1.1E-02      |
| 299      | 0.91652 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.4E-09    | 9.4E-03      |
| 300      | 0.80208 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09    | 8.3E-03      |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 301      | 0.6609  | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-09  | 6.8E-03 |
| 302      | 0.58197 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09  | 6.0E-03 |
| 303      | 0.39159 | 0.0018 | 7.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.49E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-09  | 4.0E-03 |
| 304      | 0.35914 | 0.0018 | 6.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.87E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-09  | 3.7E-03 |
| 305      | 0.35529 | 0.0018 | 6.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.79E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-09  | 3.7E-03 |
| 306      | 0.34386 | 0.0018 | 6.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.58E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-09  | 3.5E-03 |
| 307      | 0.35356 | 0.0018 | 6.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.76E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-09  | 3.6E-03 |
| 308      | 0.39073 | 0.0018 | 7.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.47E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-09  | 4.0E-03 |
| 309      | 0.44141 | 0.0018 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.44E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09  | 4.5E-03 |
| 310      | 0.47846 | 0.0018 | 8.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.15E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.9E-09  | 4.9E-03 |
| 311      | 0.56418 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-09  | 5.8E-03 |
| 312      | 0.67741 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-09  | 7.0E-03 |
| 313      | 0.80426 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.54E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09  | 8.3E-03 |
| 314      | 0.92054 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.5E-09  | 9.5E-03 |
| 315      | 1.00261 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |
| 316      | 1.03928 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 317      | 1.02828 | 0.0018 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.97E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08  | 1.1E-02 |
| 318      | 0.98264 | 0.0018 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08  | 1.0E-02 |
| 319      | 0.91474 | 0.0018 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.4E-09  | 9.4E-03 |
| 320      | 0.82666 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.5E-09  | 8.5E-03 |
| 321      | 0.74121 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-09  | 7.6E-03 |
| 322      | 0.6153  | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-09  | 6.3E-03 |
| 323      | 0.55156 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-09  | 5.7E-03 |
| 324      | 0.38105 | 0.0018 | 7.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.29E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-09  | 3.9E-03 |
| 325      | 0.33126 | 0.0018 | 6.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.34E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-09  | 3.4E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 326      | 0.32305 | 0.0018 | 5.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-09  | 3.3E-03 |
| 327      | 0.29252 | 0.0018 | 5.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09  | 3.0E-03 |
| 328      | 0.29248 | 0.0018 | 5.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.59E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09  | 3.0E-03 |
| 329      | 0.317   | 0.0018 | 5.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.06E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-09  | 3.3E-03 |
| 330      | 0.33066 | 0.0018 | 6.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.32E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-09  | 3.4E-03 |
| 331      | 0.35869 | 0.0018 | 6.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.86E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-09  | 3.7E-03 |
| 332      | 0.40288 | 0.0018 | 7.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.71E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-09  | 4.2E-03 |
| 333      | 0.4573  | 0.0018 | 8.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.75E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-09  | 4.7E-03 |
| 334      | 0.53898 | 0.0018 | 9.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-09  | 5.6E-03 |
| 335      | 0.63508 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09  | 6.5E-03 |
| 336      | 0.73114 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.5E-09  | 7.5E-03 |
| 337      | 0.80795 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09  | 8.3E-03 |
| 338      | 0.85925 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-09  | 8.9E-03 |
| 339      | 0.87375 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.0E-09  | 9.0E-03 |
| 340      | 0.85425 | 0.0018 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-09  | 8.8E-03 |
| 341      | 0.81269 | 0.0018 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.4E-09  | 8.4E-03 |
| 342      | 0.72959 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.5E-09  | 7.5E-03 |
| 343      | 0.67174 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.9E-09  | 6.9E-03 |
| 344      | 0.57305 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-09  | 5.9E-03 |
| 345      | 0.51872 | 0.0018 | 9.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.92E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-09  | 5.3E-03 |
| 346      | 0.29019 | 0.0018 | 5.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.55E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09  | 3.0E-03 |
| 347      | 0.27864 | 0.0018 | 5.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.33E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-09  | 2.9E-03 |
| 348      | 0.26697 | 0.0018 | 4.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.11E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09  | 2.8E-03 |
| 349      | 0.25326 | 0.0018 | 4.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.84E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-09  | 2.6E-03 |
| 350      | 0.25562 | 0.0018 | 4.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.89E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-09  | 2.6E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/M |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | ill)    |
| 351      | 0.2724  | 0.0018 | 5.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.21E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09  | 2.8E-03 |
| 352      | 0.28943 | 0.0018 | 5.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.54E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-09  | 3.0E-03 |
| 353      | 0.3067  | 0.0018 | 5.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.87E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-09  | 3.2E-03 |
| 354      | 0.33648 | 0.0018 | 6.2E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.44E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-09  | 3.5E-03 |
| 355      | 0.3689  | 0.0018 | 6.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.06E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-09  | 3.8E-03 |
| 356      | 0.44002 | 0.0018 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.42E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-09  | 4.5E-03 |
| 357      | 0.51306 | 0.0018 | 9.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.81E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-09  | 5.3E-03 |
| 358      | 0.59206 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-09  | 6.1E-03 |
| 359      | 0.66144 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-09  | 6.8E-03 |
| 360      | 0.71417 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09  | 7.4E-03 |
| 361      | 0.73968 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-09  | 7.6E-03 |
| 362      | 0.74345 | 0.0018 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.7E-09  | 7.7E-03 |
| 363      | 0.71982 | 0.0018 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09  | 7.4E-03 |
| 364      | 0.65107 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.7E-09  | 6.7E-03 |
| 365      | 0.60983 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-09  | 6.3E-03 |
| 366      | 0.53056 | 0.0018 | 9.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-09  | 5.5E-03 |
| 367      | 0.48574 | 0.0018 | 8.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.29E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-09  | 5.0E-03 |
| 368      | 0.25159 | 0.0018 | 4.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.81E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-09  | 2.6E-03 |
| 369      | 0.24678 | 0.0018 | 4.5E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.72E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-09  | 2.5E-03 |
| 370      | 0.23335 | 0.0018 | 4.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.46E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-09  | 2.4E-03 |
| 371      | 0.21774 | 0.0018 | 4.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.16E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-09  | 2.2E-03 |
| 372      | 0.22662 | 0.0018 | 4.1E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.33E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-09  | 2.3E-03 |
| 373      | 0.22108 | 0.0018 | 4.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-09  | 2.3E-03 |
| 374      | 0.24111 | 0.0018 | 4.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.61E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-09  | 2.5E-03 |
| 375      | 0.25062 | 0.0018 | 4.6E-04 | 1090 | 1 | 0.96 | 1E-06  | 4.79E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-09  | 2.6E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0-2) | (Risk/M ill) |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|------------|--------------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH |            |              |
| 376      | 0.27425 | 0.0018 | 5.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.24E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-09    | 2.8E-03      |
| 377      | 0.29662 | 0.0018 | 5.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 5.67E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.1E-09    | 3.1E-03      |
| 378      | 0.31582 | 0.0018 | 5.8E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.04E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-09    | 3.3E-03      |
| 379      | 0.36484 | 0.0018 | 6.7E-04 | 1090 | 1 | 0.96 | 1E-06  | 6.98E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-09    | 3.8E-03      |
| 380      | 0.40393 | 0.0018 | 7.4E-04 | 1090 | 1 | 0.96 | 1E-06  | 7.73E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-09    | 4.2E-03      |
| 381      | 0.48601 | 0.0018 | 8.9E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.29E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-09    | 5.0E-03      |
| 382      | 0.5477  | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-09    | 5.6E-03      |
| 383      | 0.59749 | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.2E-09    | 6.2E-03      |
| 384      | 0.62971 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09    | 6.5E-03      |
| 385      | 0.64012 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.6E-09    | 6.6E-03      |
| 386      | 0.62903 | 0.0018 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09    | 6.5E-03      |
| 387      | 0.5807  | 0.0018 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09    | 6.0E-03      |
| 388      | 0.55072 | 0.0018 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-09    | 5.7E-03      |
| 389      | 0.49043 | 0.0018 | 9.0E-04 | 1090 | 1 | 0.96 | 1E-06  | 9.38E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 5.1E-09    | 5.1E-03      |
| 390      | 0.45288 | 0.0018 | 8.3E-04 | 1090 | 1 | 0.96 | 1E-06  | 8.66E-07 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-09    | 4.7E-03      |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 2.61E-04 | 5   | 5.22E-05 | 3.13E-03 |
| 2  | 2.45E-04 | 5   | 4.89E-05 |          |
| 3  | 2.23E-04 | 5   | 4.47E-05 |          |
| 4  | 2.07E-04 | 5   | 4.14E-05 |          |
| 5  | 1.89E-04 | 5   | 3.78E-05 |          |
| 6  | 1.75E-04 | 5   | 3.51E-05 |          |
| 7  | 3.32E-04 | 5   | 6.63E-05 |          |
| 8  | 3.04E-04 | 5   | 6.07E-05 |          |
| 9  | 2.66E-04 | 5   | 5.33E-05 |          |
| 10 | 2.48E-04 | 5   | 4.96E-05 |          |
| 11 | 2.18E-04 | 5   | 4.36E-05 |          |
| 12 | 2.04E-04 | 5   | 4.09E-05 |          |
| 13 | 1.92E-04 | 5   | 3.85E-05 |          |
| 14 | 3.64E-04 | 5   | 7.28E-05 |          |
| 15 | 3.39E-04 | 5   | 6.78E-05 |          |
| 16 | 3.05E-04 | 5   | 6.09E-05 |          |
| 17 | 2.68E-04 | 5   | 5.37E-05 |          |
| 18 | 2.44E-04 | 5   | 4.88E-05 |          |
| 19 | 2.22E-04 | 5   | 4.45E-05 |          |
| 20 | 2.07E-04 | 5   | 4.15E-05 |          |
| 21 | 8.01E-04 | 5   | 1.60E-04 |          |
| 22 | 9.18E-04 | 5   | 1.84E-04 |          |
| 23 | 9.85E-04 | 5   | 1.97E-04 |          |
| 24 | 1.01E-03 | 5   | 2.01E-04 |          |
| 25 | 1.12E-03 | 5   | 2.23E-04 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 1.09E-03    | 5          | 2.18E-04  |
| 27       | 1.00E-03    | 5          | 2.01E-04  |
| 28       | 8.91E-04    | 5          | 1.78E-04  |
| 29       | 7.55E-04    | 5          | 1.51E-04  |
| 30       | 4.95E-04    | 5          | 9.90E-05  |
| 31       | 4.57E-04    | 5          | 9.14E-05  |
| 32       | 3.73E-04    | 5          | 7.46E-05  |
| 33       | 3.54E-04    | 5          | 7.08E-05  |
| 34       | 2.94E-04    | 5          | 5.88E-05  |
| 35       | 2.72E-04    | 5          | 5.44E-05  |
| 36       | 2.43E-04    | 5          | 4.86E-05  |
| 37       | 2.30E-04    | 5          | 4.59E-05  |
| 38       | 1.08E-03    | 5          | 2.16E-04  |
| 39       | 9.79E-04    | 5          | 1.96E-04  |
| 40       | 1.05E-03    | 5          | 2.10E-04  |
| 41       | 1.07E-03    | 5          | 2.14E-04  |
| 42       | 1.13E-03    | 5          | 2.26E-04  |
| 43       | 1.17E-03    | 5          | 2.33E-04  |
| 44       | 1.11E-03    | 5          | 2.22E-04  |
| 45       | 9.82E-04    | 5          | 1.96E-04  |
| 46       | 8.41E-04    | 5          | 1.68E-04  |
| 47       | 7.64E-04    | 5          | 1.53E-04  |
| 48       | 6.03E-04    | 5          | 1.21E-04  |
| 49       | 5.22E-04    | 5          | 1.04E-04  |
| 50       | 4.72E-04    | 5          | 9.44E-05  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 4.23E-04    | 5          | 8.46E-05  |
| 52       | 3.37E-04    | 5          | 6.75E-05  |
| 53       | 2.98E-04    | 5          | 5.96E-05  |
| 54       | 2.73E-04    | 5          | 5.47E-05  |
| 55       | 2.79E-04    | 5          | 5.58E-05  |
| 56       | 1.02E-03    | 5          | 2.04E-04  |
| 57       | 1.04E-03    | 5          | 2.08E-04  |
| 58       | 1.08E-03    | 5          | 2.15E-04  |
| 59       | 1.25E-03    | 5          | 2.50E-04  |
| 60       | 1.27E-03    | 5          | 2.53E-04  |
| 61       | 1.35E-03    | 5          | 2.70E-04  |
| 62       | 1.32E-03    | 5          | 2.64E-04  |
| 63       | 1.15E-03    | 5          | 2.29E-04  |
| 64       | 1.03E-03    | 5          | 2.07E-04  |
| 65       | 8.47E-04    | 5          | 1.69E-04  |
| 66       | 8.56E-04    | 5          | 1.71E-04  |
| 67       | 6.02E-04    | 5          | 1.20E-04  |
| 68       | 5.36E-04    | 5          | 1.07E-04  |
| 69       | 4.95E-04    | 5          | 9.90E-05  |
| 70       | 4.78E-04    | 5          | 9.56E-05  |
| 71       | 3.74E-04    | 5          | 7.47E-05  |
| 72       | 3.49E-04    | 5          | 6.98E-05  |
| 73       | 4.03E-04    | 5          | 8.06E-05  |
| 74       | 1.15E-03    | 5          | 2.29E-04  |
| 75       | 1.19E-03    | 5          | 2.38E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 1.20E-03    | 5          | 2.40E-04  |
| 77       | 1.35E-03    | 5          | 2.69E-04  |
| 78       | 1.55E-03    | 5          | 3.10E-04  |
| 79       | 1.63E-03    | 5          | 3.25E-04  |
| 80       | 1.66E-03    | 5          | 3.31E-04  |
| 81       | 1.51E-03    | 5          | 3.02E-04  |
| 82       | 1.30E-03    | 5          | 2.59E-04  |
| 83       | 1.09E-03    | 5          | 2.18E-04  |
| 84       | 1.24E-03    | 5          | 2.49E-04  |
| 85       | 6.33E-04    | 5          | 1.27E-04  |
| 86       | 5.77E-04    | 5          | 1.15E-04  |
| 87       | 5.52E-04    | 5          | 1.10E-04  |
| 88       | 5.23E-04    | 5          | 1.05E-04  |
| 89       | 4.93E-04    | 5          | 9.87E-05  |
| 90       | 4.72E-04    | 5          | 9.43E-05  |
| 91       | 1.40E-03    | 5          | 2.80E-04  |
| 92       | 1.43E-03    | 5          | 2.86E-04  |
| 93       | 1.64E-03    | 5          | 3.28E-04  |
| 94       | 1.73E-03    | 5          | 3.47E-04  |
| 95       | 1.90E-03    | 5          | 3.81E-04  |
| 96       | 2.06E-03    | 5          | 4.11E-04  |
| 97       | 1.91E-03    | 5          | 3.81E-04  |
| 98       | 1.65E-03    | 5          | 3.30E-04  |
| 99       | 1.61E-03    | 5          | 3.23E-04  |
| 100      | 8.07E-04    | 5          | 1.61E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 101      | 6.73E-04 | 5   | 1.35E-04 |
| 102      | 6.30E-04 | 5   | 1.26E-04 |
| 103      | 6.00E-04 | 5   | 1.20E-04 |
| 104      | 5.59E-04 | 5   | 1.12E-04 |
| 105      | 5.05E-04 | 5   | 1.01E-04 |
| 106      | 1.48E-03 | 5   | 2.96E-04 |
| 107      | 1.53E-03 | 5   | 3.06E-04 |
| 108      | 1.73E-03 | 5   | 3.46E-04 |
| 109      | 1.81E-03 | 5   | 3.61E-04 |
| 110      | 2.07E-03 | 5   | 4.14E-04 |
| 111      | 2.39E-03 | 5   | 4.78E-04 |
| 112      | 2.59E-03 | 5   | 5.17E-04 |
| 113      | 2.60E-03 | 5   | 5.20E-04 |
| 114      | 2.49E-03 | 5   | 4.98E-04 |
| 115      | 7.49E-04 | 5   | 1.50E-04 |
| 116      | 7.22E-04 | 5   | 1.44E-04 |
| 117      | 7.01E-04 | 5   | 1.40E-04 |
| 118      | 6.14E-04 | 5   | 1.23E-04 |
| 119      | 5.21E-04 | 5   | 1.04E-04 |
| 120      | 1.70E-03 | 5   | 3.40E-04 |
| 121      | 1.58E-03 | 5   | 3.17E-04 |
| 122      | 1.81E-03 | 5   | 3.61E-04 |
| 123      | 2.14E-03 | 5   | 4.28E-04 |
| 124      | 2.54E-03 | 5   | 5.07E-04 |
| 125      | 2.90E-03 | 5   | 5.79E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 126      | 3.60E-03 | 5   | 7.21E-04 |
| 127      | 4.30E-03 | 5   | 8.61E-04 |
| 128      | 1.20E-03 | 5   | 2.40E-04 |
| 129      | 1.01E-03 | 5   | 2.02E-04 |
| 130      | 8.53E-04 | 5   | 1.71E-04 |
| 131      | 6.96E-04 | 5   | 1.39E-04 |
| 132      | 4.78E-04 | 5   | 9.56E-05 |
| 133      | 1.56E-03 | 5   | 3.12E-04 |
| 134      | 1.97E-03 | 5   | 3.94E-04 |
| 135      | 2.48E-03 | 5   | 4.96E-04 |
| 136      | 2.88E-03 | 5   | 5.77E-04 |
| 137      | 3.53E-03 | 5   | 7.07E-04 |
| 138      | 4.96E-03 | 5   | 9.93E-04 |
| 139      | 1.05E-02 | 5   | 2.09E-03 |
| 140      | 1.23E-03 | 5   | 2.45E-04 |
| 141      | 9.68E-04 | 5   | 1.94E-04 |
| 142      | 7.99E-04 | 5   | 1.60E-04 |
| 143      | 5.35E-04 | 5   | 1.07E-04 |
| 144      | 2.30E-03 | 5   | 4.59E-04 |
| 145      | 3.02E-03 | 5   | 6.05E-04 |
| 146      | 3.63E-03 | 5   | 7.26E-04 |
| 147      | 4.84E-03 | 5   | 9.69E-04 |
| 148      | 7.12E-03 | 5   | 1.42E-03 |
| 149      | 6.43E-03 | 5   | 1.29E-03 |
| 150      | 3.72E-03 | 5   | 7.45E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 151      | 2.75E-03    | 5          | 5.51E-04  |
| 152      | 2.24E-03    | 5          | 4.48E-04  |
| 153      | 1.30E-03    | 5          | 2.60E-04  |
| 154      | 1.06E-03    | 5          | 2.13E-04  |
| 155      | 8.65E-04    | 5          | 1.73E-04  |
| 156      | 7.38E-04    | 5          | 1.48E-04  |
| 157      | 6.12E-03    | 5          | 1.22E-03  |
| 158      | 6.88E-03    | 5          | 1.38E-03  |
| 159      | 8.31E-03    | 5          | 1.66E-03  |
| 160      | 4.63E-03    | 5          | 9.26E-04  |
| 161      | 3.02E-03    | 5          | 6.04E-04  |
| 162      | 2.22E-03    | 5          | 4.45E-04  |
| 163      | 1.07E-03    | 5          | 2.14E-04  |
| 164      | 9.37E-04    | 5          | 1.87E-04  |
| 165      | 7.87E-04    | 5          | 1.57E-04  |
| 166      | 9.78E-03    | 5          | 1.96E-03  |
| 167      | 5.38E-03    | 5          | 1.08E-03  |
| 168      | 3.69E-03    | 5          | 7.38E-04  |
| 169      | 2.61E-03    | 5          | 5.22E-04  |
| 170      | 1.98E-03    | 5          | 3.97E-04  |
| 171      | 1.25E-03    | 5          | 2.49E-04  |
| 172      | 9.44E-04    | 5          | 1.89E-04  |
| 173      | 7.83E-04    | 5          | 1.57E-04  |
| 174      | 1.57E-02    | 5          | 3.13E-03  |
| 175      | 9.88E-03    | 5          | 1.98E-03  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 6.10E-03 | 5   | 1.22E-03 |
| 177           | 4.14E-03 | 5   | 8.28E-04 |
| 178           | 2.92E-03 | 5   | 5.84E-04 |
| 179           | 2.12E-03 | 5   | 4.23E-04 |
| 180           | 1.64E-03 | 5   | 3.27E-04 |
| 181           | 1.14E-03 | 5   | 2.27E-04 |
| 182           | 9.26E-04 | 5   | 1.85E-04 |
| 183           | 1.31E-02 | 5   | 2.62E-03 |
| 184           | 9.27E-03 | 5   | 1.85E-03 |
| 185           | 6.46E-03 | 5   | 1.29E-03 |
| 186           | 4.42E-03 | 5   | 8.83E-04 |
| 187           | 3.23E-03 | 5   | 6.46E-04 |
| 188           | 2.40E-03 | 5   | 4.79E-04 |
| 189           | 1.85E-03 | 5   | 3.70E-04 |
| 190           | 1.47E-03 | 5   | 2.94E-04 |
| 191           | 1.52E-02 | 5   | 3.05E-03 |
| 192           | 1.10E-02 | 5   | 2.20E-03 |
| 193           | 8.16E-03 | 5   | 1.63E-03 |
| 194           | 6.10E-03 | 5   | 1.22E-03 |
| 195           | 4.51E-03 | 5   | 9.01E-04 |
| 196           | 3.37E-03 | 5   | 6.74E-04 |
| 197           | 2.60E-03 | 5   | 5.20E-04 |
| 198           | 1.99E-03 | 5   | 3.98E-04 |
| 199           | 1.60E-03 | 5   | 3.21E-04 |
| 200           | 1.32E-03 | 5   | 2.64E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 201      | 5.95E-03 | 5   | 1.19E-03 |
| 202      | 9.06E-03 | 5   | 1.81E-03 |
| 203      | 1.07E-02 | 5   | 2.15E-03 |
| 204      | 1.17E-02 | 5   | 2.34E-03 |
| 205      | 1.08E-02 | 5   | 2.16E-03 |
| 206      | 8.94E-03 | 5   | 1.79E-03 |
| 207      | 7.19E-03 | 5   | 1.44E-03 |
| 208      | 5.67E-03 | 5   | 1.13E-03 |
| 209      | 4.37E-03 | 5   | 8.74E-04 |
| 210      | 3.42E-03 | 5   | 6.83E-04 |
| 211      | 2.68E-03 | 5   | 5.37E-04 |
| 212      | 2.10E-03 | 5   | 4.20E-04 |
| 213      | 1.72E-03 | 5   | 3.43E-04 |
| 214      | 1.37E-03 | 5   | 2.74E-04 |
| 215      | 1.15E-03 | 5   | 2.30E-04 |
| 216      | 2.77E-03 | 5   | 5.54E-04 |
| 217      | 3.20E-03 | 5   | 6.41E-04 |
| 218      | 4.41E-03 | 5   | 8.82E-04 |
| 219      | 5.66E-03 | 5   | 1.13E-03 |
| 220      | 6.68E-03 | 5   | 1.34E-03 |
| 221      | 7.09E-03 | 5   | 1.42E-03 |
| 222      | 6.81E-03 | 5   | 1.36E-03 |
| 223      | 5.96E-03 | 5   | 1.19E-03 |
| 224      | 4.98E-03 | 5   | 9.97E-04 |
| 225      | 4.04E-03 | 5   | 8.07E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 226      | 3.24E-03 | 5   | 6.49E-04 |
| 227      | 2.64E-03 | 5   | 5.28E-04 |
| 228      | 2.13E-03 | 5   | 4.26E-04 |
| 229      | 1.73E-03 | 5   | 3.45E-04 |
| 230      | 1.42E-03 | 5   | 2.85E-04 |
| 231      | 1.14E-03 | 5   | 2.28E-04 |
| 232      | 1.94E-03 | 5   | 3.88E-04 |
| 233      | 2.04E-03 | 5   | 4.09E-04 |
| 234      | 2.70E-03 | 5   | 5.41E-04 |
| 235      | 3.47E-03 | 5   | 6.93E-04 |
| 236      | 4.24E-03 | 5   | 8.49E-04 |
| 237      | 4.96E-03 | 5   | 9.93E-04 |
| 238      | 5.06E-03 | 5   | 1.01E-03 |
| 239      | 4.70E-03 | 5   | 9.40E-04 |
| 240      | 4.18E-03 | 5   | 8.35E-04 |
| 241      | 3.54E-03 | 5   | 7.09E-04 |
| 242      | 2.98E-03 | 5   | 5.97E-04 |
| 243      | 2.48E-03 | 5   | 4.96E-04 |
| 244      | 2.08E-03 | 5   | 4.16E-04 |
| 245      | 1.68E-03 | 5   | 3.36E-04 |
| 246      | 1.43E-03 | 5   | 2.85E-04 |
| 247      | 1.16E-03 | 5   | 2.31E-04 |
| 248      | 1.58E-03 | 5   | 3.17E-04 |
| 249      | 1.57E-03 | 5   | 3.13E-04 |
| 250      | 1.84E-03 | 5   | 3.67E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 2.36E-03 | 5   | 4.72E-04 |
| 252           | 2.99E-03 | 5   | 5.99E-04 |
| 253           | 3.48E-03 | 5   | 6.96E-04 |
| 254           | 3.71E-03 | 5   | 7.42E-04 |
| 255           | 3.68E-03 | 5   | 7.36E-04 |
| 256           | 3.44E-03 | 5   | 6.89E-04 |
| 257           | 3.08E-03 | 5   | 6.16E-04 |
| 258           | 2.67E-03 | 5   | 5.35E-04 |
| 259           | 2.30E-03 | 5   | 4.59E-04 |
| 260           | 1.97E-03 | 5   | 3.94E-04 |
| 261           | 1.64E-03 | 5   | 3.27E-04 |
| 262           | 1.40E-03 | 5   | 2.79E-04 |
| 263           | 1.16E-03 | 5   | 2.31E-04 |
| 264           | 1.06E-03 | 5   | 2.12E-04 |
| 265           | 1.03E-03 | 5   | 2.05E-04 |
| 266           | 1.06E-03 | 5   | 2.12E-04 |
| 267           | 1.22E-03 | 5   | 2.43E-04 |
| 268           | 1.21E-03 | 5   | 2.42E-04 |
| 269           | 1.36E-03 | 5   | 2.72E-04 |
| 270           | 1.68E-03 | 5   | 3.37E-04 |
| 271           | 2.14E-03 | 5   | 4.28E-04 |
| 272           | 2.54E-03 | 5   | 5.07E-04 |
| 273           | 2.80E-03 | 5   | 5.60E-04 |
| 274           | 2.89E-03 | 5   | 5.78E-04 |
| 275           | 2.80E-03 | 5   | 5.61E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 276      | 2.62E-03 | 5   | 5.24E-04 |
| 277      | 2.36E-03 | 5   | 4.72E-04 |
| 278      | 2.09E-03 | 5   | 4.17E-04 |
| 279      | 1.83E-03 | 5   | 3.66E-04 |
| 280      | 1.56E-03 | 5   | 3.13E-04 |
| 281      | 1.32E-03 | 5   | 2.64E-04 |
| 282      | 1.11E-03 | 5   | 2.23E-04 |
| 283      | 8.43E-04 | 5   | 1.69E-04 |
| 284      | 8.09E-04 | 5   | 1.62E-04 |
| 285      | 7.93E-04 | 5   | 1.59E-04 |
| 286      | 8.39E-04 | 5   | 1.68E-04 |
| 287      | 9.57E-04 | 5   | 1.91E-04 |
| 288      | 1.04E-03 | 5   | 2.09E-04 |
| 289      | 1.09E-03 | 5   | 2.17E-04 |
| 290      | 1.31E-03 | 5   | 2.63E-04 |
| 291      | 1.60E-03 | 5   | 3.20E-04 |
| 292      | 1.91E-03 | 5   | 3.81E-04 |
| 293      | 2.15E-03 | 5   | 4.30E-04 |
| 294      | 2.29E-03 | 5   | 4.59E-04 |
| 295      | 2.30E-03 | 5   | 4.60E-04 |
| 296      | 2.22E-03 | 5   | 4.45E-04 |
| 297      | 2.07E-03 | 5   | 4.15E-04 |
| 298      | 1.88E-03 | 5   | 3.76E-04 |
| 299      | 1.68E-03 | 5   | 3.35E-04 |
| 300      | 1.47E-03 | 5   | 2.94E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 301      | 1.21E-03    | 5          | 2.42E-04  |
| 302      | 1.06E-03    | 5          | 2.13E-04  |
| 303      | 7.17E-04    | 5          | 1.43E-04  |
| 304      | 6.57E-04    | 5          | 1.31E-04  |
| 305      | 6.50E-04    | 5          | 1.30E-04  |
| 306      | 6.29E-04    | 5          | 1.26E-04  |
| 307      | 6.47E-04    | 5          | 1.29E-04  |
| 308      | 7.15E-04    | 5          | 1.43E-04  |
| 309      | 8.08E-04    | 5          | 1.62E-04  |
| 310      | 8.75E-04    | 5          | 1.75E-04  |
| 311      | 1.03E-03    | 5          | 2.06E-04  |
| 312      | 1.24E-03    | 5          | 2.48E-04  |
| 313      | 1.47E-03    | 5          | 2.94E-04  |
| 314      | 1.68E-03    | 5          | 3.37E-04  |
| 315      | 1.83E-03    | 5          | 3.67E-04  |
| 316      | 1.90E-03    | 5          | 3.80E-04  |
| 317      | 1.88E-03    | 5          | 3.76E-04  |
| 318      | 1.80E-03    | 5          | 3.60E-04  |
| 319      | 1.67E-03    | 5          | 3.35E-04  |
| 320      | 1.51E-03    | 5          | 3.03E-04  |
| 321      | 1.36E-03    | 5          | 2.71E-04  |
| 322      | 1.13E-03    | 5          | 2.25E-04  |
| 323      | 1.01E-03    | 5          | 2.02E-04  |
| 324      | 6.97E-04    | 5          | 1.39E-04  |
| 325      | 6.06E-04    | 5          | 1.21E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 326           | 5.91E-04 | 5   | 1.18E-04 |
| 327           | 5.35E-04 | 5   | 1.07E-04 |
| 328           | 5.35E-04 | 5   | 1.07E-04 |
| 329           | 5.80E-04 | 5   | 1.16E-04 |
| 330           | 6.05E-04 | 5   | 1.21E-04 |
| 331           | 6.56E-04 | 5   | 1.31E-04 |
| 332           | 7.37E-04 | 5   | 1.47E-04 |
| 333           | 8.37E-04 | 5   | 1.67E-04 |
| 334           | 9.86E-04 | 5   | 1.97E-04 |
| 335           | 1.16E-03 | 5   | 2.32E-04 |
| 336           | 1.34E-03 | 5   | 2.68E-04 |
| 337           | 1.48E-03 | 5   | 2.96E-04 |
| 338           | 1.57E-03 | 5   | 3.14E-04 |
| 339           | 1.60E-03 | 5   | 3.20E-04 |
| 340           | 1.56E-03 | 5   | 3.13E-04 |
| 341           | 1.49E-03 | 5   | 2.97E-04 |
| 342           | 1.33E-03 | 5   | 2.67E-04 |
| 343           | 1.23E-03 | 5   | 2.46E-04 |
| 344           | 1.05E-03 | 5   | 2.10E-04 |
| 345           | 9.49E-04 | 5   | 1.90E-04 |
| 346           | 5.31E-04 | 5   | 1.06E-04 |
| 347           | 5.10E-04 | 5   | 1.02E-04 |
| 348           | 4.88E-04 | 5   | 9.77E-05 |
| 349           | 4.63E-04 | 5   | 9.27E-05 |
| 350           | 4.68E-04 | 5   | 9.35E-05 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 4.98E-04 | 5   | 9.97E-05 |
| 352           | 5.30E-04 | 5   | 1.06E-04 |
| 353           | 5.61E-04 | 5   | 1.12E-04 |
| 354           | 6.16E-04 | 5   | 1.23E-04 |
| 355           | 6.75E-04 | 5   | 1.35E-04 |
| 356           | 8.05E-04 | 5   | 1.61E-04 |
| 357           | 9.39E-04 | 5   | 1.88E-04 |
| 358           | 1.08E-03 | 5   | 2.17E-04 |
| 359           | 1.21E-03 | 5   | 2.42E-04 |
| 360           | 1.31E-03 | 5   | 2.61E-04 |
| 361           | 1.35E-03 | 5   | 2.71E-04 |
| 362           | 1.36E-03 | 5   | 2.72E-04 |
| 363           | 1.32E-03 | 5   | 2.63E-04 |
| 364           | 1.19E-03 | 5   | 2.38E-04 |
| 365           | 1.12E-03 | 5   | 2.23E-04 |
| 366           | 9.71E-04 | 5   | 1.94E-04 |
| 367           | 8.89E-04 | 5   | 1.78E-04 |
| 368           | 4.60E-04 | 5   | 9.21E-05 |
| 369           | 4.52E-04 | 5   | 9.03E-05 |
| 370           | 4.27E-04 | 5   | 8.54E-05 |
| 371           | 3.98E-04 | 5   | 7.97E-05 |
| 372           | 4.15E-04 | 5   | 8.29E-05 |
| 373           | 4.05E-04 | 5   | 8.09E-05 |
| 374           | 4.41E-04 | 5   | 8.82E-05 |
| 375           | 4.59E-04 | 5   | 9.17E-05 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3A**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 5.02E-04    | 5          | 1.00E-04  |
| 377      | 5.43E-04    | 5          | 1.09E-04  |
| 378      | 5.78E-04    | 5          | 1.16E-04  |
| 379      | 6.68E-04    | 5          | 1.34E-04  |
| 380      | 7.39E-04    | 5          | 1.48E-04  |
| 381      | 8.89E-04    | 5          | 1.78E-04  |
| 382      | 1.00E-03    | 5          | 2.00E-04  |
| 383      | 1.09E-03    | 5          | 2.19E-04  |
| 384      | 1.15E-03    | 5          | 2.30E-04  |
| 385      | 1.17E-03    | 5          | 2.34E-04  |
| 386      | 1.15E-03    | 5          | 2.30E-04  |
| 387      | 1.06E-03    | 5          | 2.13E-04  |
| 388      | 1.01E-03    | 5          | 2.02E-04  |
| 389      | 8.97E-04    | 5          | 1.79E-04  |
| 390      | 8.29E-04    | 5          | 1.66E-04  |

**Risk Calculations - Birth to 2 years**  
**Construction Phase 3B**

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |          |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |          |
| 1        | 0.14257 | 0.0111 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-09 | 8.9E-03 | Max      |
| 2        | 0.13369 | 0.0111 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.4E-09 | 8.4E-03 | 5.35E-01 |
| 3        | 0.12214 | 0.0111 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-09 | 7.6E-03 |          |
| 4        | 0.11318 | 0.0111 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-09 | 7.1E-03 |          |
| 5        | 0.10329 | 0.0111 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-09 | 6.5E-03 |          |
| 6        | 0.0959  | 0.0111 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.0E-09 | 6.0E-03 |          |
| 7        | 0.18122 | 0.0111 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.10E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-08 | 1.1E-02 |          |
| 8        | 0.16599 | 0.0111 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08 | 1.0E-02 |          |
| 9        | 0.14564 | 0.0111 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.1E-09 | 9.1E-03 |          |
| 10       | 0.13566 | 0.0111 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.5E-09 | 8.5E-03 |          |
| 11       | 0.11905 | 0.0111 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-09 | 7.4E-03 |          |
| 12       | 0.11174 | 0.0111 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-09 | 7.0E-03 |          |
| 13       | 0.10516 | 0.0111 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 6.6E-09 | 6.6E-03 |          |
| 14       | 0.19891 | 0.0111 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08 | 1.2E-02 |          |
| 15       | 0.18538 | 0.0111 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.15E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08 | 1.2E-02 |          |
| 16       | 0.16647 | 0.0111 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08 | 1.0E-02 |          |
| 17       | 0.14661 | 0.0111 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-09 | 9.2E-03 |          |
| 18       | 0.13322 | 0.0111 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09 | 8.3E-03 |          |
| 19       | 0.12149 | 0.0111 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-09 | 7.6E-03 |          |
| 20       | 0.11331 | 0.0111 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-09 | 7.1E-03 |          |
| 21       | 0.43801 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-08 | 2.7E-02 |          |
| 22       | 0.5016  | 0.0111 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.82E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.1E-08 | 3.1E-02 |          |
| 23       | 0.53845 | 0.0111 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |          |
| 24       | 0.55059 | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |          |
| 25       | 0.61064 | 0.0111 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.09E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08 | 3.8E-02 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 26       | 0.59517 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 27       | 0.54814 | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 28       | 0.48705 | 0.0111 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.65E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 29       | 0.41251 | 0.0111 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 30       | 0.27062 | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 31       | 0.24985 | 0.0111 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.90E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 32       | 0.20383 | 0.0111 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08 | 1.3E-02 |
| 33       | 0.19347 | 0.0111 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08 | 1.2E-02 |
| 34       | 0.16069 | 0.0111 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08 | 1.0E-02 |
| 35       | 0.14853 | 0.0111 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.3E-09 | 9.3E-03 |
| 36       | 0.1328  | 0.0111 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.54E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 8.3E-09 | 8.3E-03 |
| 37       | 0.12553 | 0.0111 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 7.8E-09 | 7.8E-03 |
| 38       | 0.59038 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.85E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 39       | 0.53496 | 0.0111 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 40       | 0.57248 | 0.0111 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 41       | 0.58509 | 0.0111 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 42       | 0.61645 | 0.0111 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.15E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 43       | 0.63781 | 0.0111 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 44       | 0.60659 | 0.0111 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.04E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 45       | 0.53649 | 0.0111 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 46       | 0.4596  | 0.0111 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 47       | 0.41777 | 0.0111 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.85E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 48       | 0.3294  | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.82E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 49       | 0.28523 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 50       | 0.25804 | 0.0111 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 51       | 0.23121 | 0.0111 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 52       | 0.18436 | 0.0111 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08 | 1.2E-02 |
| 53       | 0.16289 | 0.0111 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-08 | 1.0E-02 |
| 54       | 0.14939 | 0.0111 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.3E-09 | 9.3E-03 |
| 55       | 0.15235 | 0.0111 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.77E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 9.5E-09 | 9.5E-03 |
| 56       | 0.55797 | 0.0111 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.48E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 57       | 0.56885 | 0.0111 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 58       | 0.58821 | 0.0111 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.83E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 59       | 0.68345 | 0.0111 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-08 | 4.3E-02 |
| 60       | 0.69254 | 0.0111 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.04E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-08 | 4.3E-02 |
| 61       | 0.73699 | 0.0111 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 62       | 0.72167 | 0.0111 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 63       | 0.62652 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.27E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 64       | 0.56525 | 0.0111 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.56E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 65       | 0.46307 | 0.0111 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 66       | 0.46763 | 0.0111 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 67       | 0.32884 | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.82E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 68       | 0.29277 | 0.0111 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 69       | 0.27065 | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 70       | 0.26125 | 0.0111 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 71       | 0.20425 | 0.0111 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-08 | 1.3E-02 |
| 72       | 0.1906  | 0.0111 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-08 | 1.2E-02 |
| 73       | 0.22012 | 0.0111 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 74       | 0.62675 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.27E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 75       | 0.65056 | 0.0111 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 76       | 0.65456 | 0.0111 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 77       | 0.73638 | 0.0111 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 78       | 0.8471  | 0.0111 | 9.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.83E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 79       | 0.88849 | 0.0111 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 80       | 0.90496 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 81       | 0.82607 | 0.0111 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.59E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-08 | 5.2E-02 |
| 82       | 0.70876 | 0.0111 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 83       | 0.59652 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 84       | 0.67997 | 0.0111 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-08 | 4.3E-02 |
| 85       | 0.34615 | 0.0111 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 86       | 0.31525 | 0.0111 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 87       | 0.30195 | 0.0111 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.50E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08 | 1.9E-02 |
| 88       | 0.28593 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 89       | 0.2696  | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 90       | 0.25777 | 0.0111 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 91       | 0.7657  | 0.0111 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.8E-08 | 4.8E-02 |
| 92       | 0.78216 | 0.0111 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 93       | 0.89506 | 0.0111 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 94       | 0.94714 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 95       | 1.04003 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 96       | 1.12421 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-08 | 7.0E-02 |
| 97       | 1.04229 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 98       | 0.90305 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 99       | 0.88258 | 0.0111 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 100      | 0.44117 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08 | 2.8E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 101      | 0.36795 | 0.0111 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.27E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-08 | 2.3E-02 |
| 102      | 0.34454 | 0.0111 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.00E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 103      | 0.32801 | 0.0111 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.81E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 104      | 0.30575 | 0.0111 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08 | 1.9E-02 |
| 105      | 0.27575 | 0.0111 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 106      | 0.80913 | 0.0111 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 107      | 0.83667 | 0.0111 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-08 | 5.2E-02 |
| 108      | 0.94434 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 109      | 0.98691 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.2E-08 | 6.2E-02 |
| 110      | 1.13153 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 111      | 1.3058  | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.52E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 112      | 1.41351 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.8E-08 | 8.8E-02 |
| 113      | 1.42196 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 114      | 1.36036 | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.5E-08 | 8.5E-02 |
| 115      | 0.40925 | 0.0111 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 116      | 0.39445 | 0.0111 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.58E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 117      | 0.38313 | 0.0111 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.45E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 118      | 0.33537 | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.89E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 119      | 0.28473 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 120      | 0.92954 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-08 | 5.8E-02 |
| 121      | 0.86551 | 0.0111 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 122      | 0.98739 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.2E-08 | 6.2E-02 |
| 123      | 1.16933 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.3E-08 | 7.3E-02 |
| 124      | 1.386   | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.7E-08 | 8.7E-02 |
| 125      | 1.58316 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.9E-08 | 9.9E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 126      | 1.96907 | 0.0111 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.29E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 127      | 2.35262 | 0.0111 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.73E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 128      | 0.65638 | 0.0111 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.62E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 129      | 0.55176 | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 130      | 0.46604 | 0.0111 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 131      | 0.38018 | 0.0111 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.41E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 132      | 0.26126 | 0.0111 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 133      | 0.85154 | 0.0111 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 134      | 1.07595 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.7E-08 | 6.7E-02 |
| 135      | 1.3543  | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.5E-08 | 8.5E-02 |
| 136      | 1.57548 | 0.0111 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.9E-08 | 9.9E-02 |
| 137      | 1.93144 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.24E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 138      | 2.71283 | 0.0111 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 139      | 5.71455 | 0.0111 | 6.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.63E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-07 | 3.6E-01 |
| 140      | 0.67028 | 0.0111 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.78E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 141      | 0.52905 | 0.0111 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 142      | 0.43694 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.07E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 143      | 0.29239 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 144      | 1.25505 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 145      | 1.65273 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 146      | 1.98418 | 0.0111 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.30E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 147      | 2.64664 | 0.0111 | 2.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 148      | 3.89148 | 0.0111 | 4.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.52E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-07 | 2.4E-01 |
| 149      | 3.51153 | 0.0111 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.08E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-07 | 2.2E-01 |
| 150      | 2.03503 | 0.0111 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-07 | 1.3E-01 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 151      | 1.50481 | 0.0111 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.75E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.4E-08 | 9.4E-02 |
| 152      | 1.22329 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-08 | 7.6E-02 |
| 153      | 0.70991 | 0.0111 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.24E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 154      | 0.58106 | 0.0111 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 155      | 0.47279 | 0.0111 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.49E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 156      | 0.40353 | 0.0111 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 157      | 3.34251 | 0.0111 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.88E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-07 | 2.1E-01 |
| 158      | 3.76257 | 0.0111 | 4.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.37E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-07 | 2.4E-01 |
| 159      | 4.54045 | 0.0111 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.27E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-07 | 2.8E-01 |
| 160      | 2.52972 | 0.0111 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.94E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 161      | 1.65138 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.92E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 162      | 1.21511 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-08 | 7.6E-02 |
| 163      | 0.58478 | 0.0111 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.79E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 164      | 0.51231 | 0.0111 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.95E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 165      | 0.43002 | 0.0111 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 166      | 5.34751 | 0.0111 | 5.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-07 | 3.3E-01 |
| 167      | 2.93781 | 0.0111 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 168      | 2.01593 | 0.0111 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 169      | 1.42521 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 170      | 1.08462 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-08 | 6.8E-02 |
| 171      | 0.68161 | 0.0111 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.3E-08 | 4.3E-02 |
| 172      | 0.51579 | 0.0111 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 173      | 0.42776 | 0.0111 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.96E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 174      | 8.55485 | 0.0111 | 9.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.93E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-07 | 5.3E-01 |
| 175      | 5.40053 | 0.0111 | 6.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.27E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-07 | 3.4E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 176      | 3.33391 | 0.0111 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.87E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-07 | 2.1E-01 |
| 177      | 2.2635  | 0.0111 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.63E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 178      | 1.59628 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.85E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 179      | 1.15673 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.34E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.2E-08 | 7.2E-02 |
| 180      | 0.89425 | 0.0111 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 181      | 0.62061 | 0.0111 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.20E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 182      | 0.50601 | 0.0111 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.87E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 183      | 7.15077 | 0.0111 | 7.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.30E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-07 | 4.5E-01 |
| 184      | 5.06388 | 0.0111 | 5.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.88E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-07 | 3.2E-01 |
| 185      | 3.52857 | 0.0111 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.09E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-07 | 2.2E-01 |
| 186      | 2.41297 | 0.0111 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 187      | 1.76478 | 0.0111 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.05E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 188      | 1.30975 | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.52E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 189      | 1.01047 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.17E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-08 | 6.3E-02 |
| 190      | 0.80384 | 0.0111 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-08 | 5.0E-02 |
| 191      | 8.32687 | 0.0111 | 9.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.66E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-07 | 5.2E-01 |
| 192      | 6.02533 | 0.0111 | 6.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.99E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-07 | 3.8E-01 |
| 193      | 4.45973 | 0.0111 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.18E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-07 | 2.8E-01 |
| 194      | 3.33262 | 0.0111 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.87E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-07 | 2.1E-01 |
| 195      | 2.46305 | 0.0111 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.86E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 196      | 1.84191 | 0.0111 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.14E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 197      | 1.42077 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 198      | 1.08702 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.8E-08 | 6.8E-02 |
| 199      | 0.87584 | 0.0111 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 200      | 0.72192 | 0.0111 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 201      | 3.24959 | 0.0111 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.77E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-07 | 2.0E-01 |
| 202      | 4.95098 | 0.0111 | 5.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.75E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.1E-07 | 3.1E-01 |
| 203      | 5.8668  | 0.0111 | 6.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.81E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-07 | 3.7E-01 |
| 204      | 6.38123 | 0.0111 | 7.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-07 | 4.0E-01 |
| 205      | 5.89622 | 0.0111 | 6.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.84E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-07 | 3.7E-01 |
| 206      | 4.88452 | 0.0111 | 5.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.67E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 3.1E-07 | 3.1E-01 |
| 207      | 3.92915 | 0.0111 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.56E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-07 | 2.5E-01 |
| 208      | 3.09747 | 0.0111 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.59E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 209      | 2.38952 | 0.0111 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.77E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 210      | 1.86639 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 211      | 1.46676 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-08 | 9.2E-02 |
| 212      | 1.14687 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.2E-08 | 7.2E-02 |
| 213      | 0.93847 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 214      | 0.74904 | 0.0111 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 215      | 0.62804 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.29E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 216      | 1.51358 | 0.0111 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.5E-08 | 9.5E-02 |
| 217      | 1.75108 | 0.0111 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 218      | 2.40965 | 0.0111 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 219      | 3.09162 | 0.0111 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.59E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 220      | 3.64843 | 0.0111 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 221      | 3.87704 | 0.0111 | 4.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-07 | 2.4E-01 |
| 222      | 3.7245  | 0.0111 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.32E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 223      | 3.25928 | 0.0111 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.78E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-07 | 2.0E-01 |
| 224      | 2.72345 | 0.0111 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 225      | 2.20632 | 0.0111 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-07 | 1.4E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 226      | 1.77318 | 0.0111 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 227      | 1.44239 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.0E-08 | 9.0E-02 |
| 228      | 1.16513 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.3E-08 | 7.3E-02 |
| 229      | 0.94394 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.10E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 230      | 0.77791 | 0.0111 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 231      | 0.62195 | 0.0111 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.22E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 232      | 1.05953 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.6E-08 | 6.6E-02 |
| 233      | 1.11661 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.0E-08 | 7.0E-02 |
| 234      | 1.47792 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.2E-08 | 9.2E-02 |
| 235      | 1.89467 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.20E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 236      | 2.31891 | 0.0111 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 237      | 2.71307 | 0.0111 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 238      | 2.76677 | 0.0111 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 239      | 2.56931 | 0.0111 | 2.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.98E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 240      | 2.2825  | 0.0111 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.65E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 241      | 1.93631 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 242      | 1.63045 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 243      | 1.35634 | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.5E-08 | 8.5E-02 |
| 244      | 1.13547 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 245      | 0.91896 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 246      | 0.77965 | 0.0111 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.05E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 247      | 0.63206 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.34E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 248      | 0.86538 | 0.0111 | 9.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.00E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 249      | 0.85659 | 0.0111 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.94E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 250      | 1.00342 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-08 | 6.3E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 251      | 1.28849 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.1E-08 | 8.1E-02 |
| 252      | 1.63636 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.90E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 253      | 1.90198 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 254      | 2.02634 | 0.0111 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.35E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 255      | 2.01179 | 0.0111 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.33E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 256      | 1.88256 | 0.0111 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.18E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 257      | 1.68205 | 0.0111 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.95E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 258      | 1.46116 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.1E-08 | 9.1E-02 |
| 259      | 1.25462 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 260      | 1.07567 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.7E-08 | 6.7E-02 |
| 261      | 0.89369 | 0.0111 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 262      | 0.7632  | 0.0111 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.8E-08 | 4.8E-02 |
| 263      | 0.63167 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 264      | 0.58009 | 0.0111 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.73E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 265      | 0.56073 | 0.0111 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.51E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 266      | 0.57902 | 0.0111 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 267      | 0.66488 | 0.0111 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.72E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 268      | 0.66061 | 0.0111 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 269      | 0.74394 | 0.0111 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 270      | 0.92034 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-08 | 5.8E-02 |
| 271      | 1.1693  | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.3E-08 | 7.3E-02 |
| 272      | 1.38588 | 0.0111 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.7E-08 | 8.7E-02 |
| 273      | 1.53028 | 0.0111 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.78E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.6E-08 | 9.6E-02 |
| 274      | 1.58042 | 0.0111 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.9E-08 | 9.9E-02 |
| 275      | 1.5324  | 0.0111 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.78E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 9.6E-08 | 9.6E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 276      | 1.43091 | 0.0111 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 277      | 1.28867 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 8.1E-08 | 8.1E-02 |
| 278      | 1.14049 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 279      | 1.0007  | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-08 | 6.3E-02 |
| 280      | 0.85395 | 0.0111 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 281      | 0.7216  | 0.0111 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 282      | 0.60823 | 0.0111 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.06E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 283      | 0.46088 | 0.0111 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.35E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 284      | 0.44204 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.13E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 285      | 0.43325 | 0.0111 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.03E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 286      | 0.45841 | 0.0111 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.32E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 287      | 0.52307 | 0.0111 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.07E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 288      | 0.56987 | 0.0111 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.61E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 289      | 0.59322 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.88E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 290      | 0.71744 | 0.0111 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 291      | 0.87548 | 0.0111 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 292      | 1.04219 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 293      | 1.17605 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.4E-08 | 7.4E-02 |
| 294      | 1.25313 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.45E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 295      | 1.25792 | 0.0111 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.9E-08 | 7.9E-02 |
| 296      | 1.21473 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.6E-08 | 7.6E-02 |
| 297      | 1.13348 | 0.0111 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 298      | 1.02677 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 299      | 0.91652 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 300      | 0.80208 | 0.0111 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-08 | 5.0E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 301      | 0.6609  | 0.0111 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 302      | 0.58197 | 0.0111 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 303      | 0.39159 | 0.0111 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.54E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 304      | 0.35914 | 0.0111 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.17E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 305      | 0.35529 | 0.0111 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 306      | 0.34386 | 0.0111 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.99E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 307      | 0.35356 | 0.0111 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.10E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 308      | 0.39073 | 0.0111 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.53E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 309      | 0.44141 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.12E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 310      | 0.47846 | 0.0111 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 311      | 0.56418 | 0.0111 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.55E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 312      | 0.67741 | 0.0111 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 313      | 0.80426 | 0.0111 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.33E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.0E-08 | 5.0E-02 |
| 314      | 0.92054 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.8E-08 | 5.8E-02 |
| 315      | 1.00261 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.3E-08 | 6.3E-02 |
| 316      | 1.03928 | 0.0111 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 317      | 1.02828 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 318      | 0.98264 | 0.0111 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 319      | 0.91474 | 0.0111 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 320      | 0.82666 | 0.0111 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.59E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.2E-08 | 5.2E-02 |
| 321      | 0.74121 | 0.0111 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.60E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 322      | 0.6153  | 0.0111 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.14E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 323      | 0.55156 | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.40E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 324      | 0.38105 | 0.0111 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.42E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 325      | 0.33126 | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.84E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 326      | 0.32305 | 0.0111 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.75E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 327      | 0.29252 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 328      | 0.29248 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 329      | 0.317   | 0.0111 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 330      | 0.33066 | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.84E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 331      | 0.35869 | 0.0111 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 332      | 0.40288 | 0.0111 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 333      | 0.4573  | 0.0111 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 334      | 0.53898 | 0.0111 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.25E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 335      | 0.63508 | 0.0111 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 336      | 0.73114 | 0.0111 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.48E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 337      | 0.80795 | 0.0111 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.38E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 338      | 0.85925 | 0.0111 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.97E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 339      | 0.87375 | 0.0111 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.03 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 340      | 0.85425 | 0.0111 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 341      | 0.81269 | 0.0111 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 342      | 0.72959 | 0.0111 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.47E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 343      | 0.67174 | 0.0111 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.80E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 344      | 0.57305 | 0.0111 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.65E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 345      | 0.51872 | 0.0111 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.02E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 346      | 0.29019 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.37E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 347      | 0.27864 | 0.0111 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 348      | 0.26697 | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.10E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 349      | 0.25326 | 0.0111 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.94E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 350      | 0.25562 | 0.0111 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.97E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 351      | 0.2724  | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 352      | 0.28943 | 0.0111 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 353      | 0.3067  | 0.0111 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.56E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08 | 1.9E-02 |
| 354      | 0.33648 | 0.0111 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.90E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 355      | 0.3689  | 0.0111 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.28E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-08 | 2.3E-02 |
| 356      | 0.44002 | 0.0111 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.11E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 357      | 0.51306 | 0.0111 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.95E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 358      | 0.59206 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.87E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 359      | 0.66144 | 0.0111 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.68E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 360      | 0.71417 | 0.0111 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.29E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 361      | 0.73968 | 0.0111 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.58E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 362      | 0.74345 | 0.0111 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 363      | 0.71982 | 0.0111 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.35E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 364      | 0.65107 | 0.0111 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.56E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 365      | 0.60983 | 0.0111 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.08E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 366      | 0.53056 | 0.0111 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.16E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 367      | 0.48574 | 0.0111 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 368      | 0.25159 | 0.0111 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.92E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 369      | 0.24678 | 0.0111 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.86E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08 | 1.5E-02 |
| 370      | 0.23335 | 0.0111 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.71E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08 | 1.5E-02 |
| 371      | 0.21774 | 0.0111 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.53E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 372      | 0.22662 | 0.0111 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.63E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 373      | 0.22108 | 0.0111 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.57E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 374      | 0.24111 | 0.0111 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.5E-08 | 1.5E-02 |
| 375      | 0.25062 | 0.0111 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.6E-08 | 1.6E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 376      | 0.27425 | 0.0111 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.18E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.7E-08 | 1.7E-02 |
| 377      | 0.29662 | 0.0111 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.44E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 1.9E-08 | 1.9E-02 |
| 378      | 0.31582 | 0.0111 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.67E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 379      | 0.36484 | 0.0111 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.3E-08 | 2.3E-02 |
| 380      | 0.40393 | 0.0111 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 381      | 0.48601 | 0.0111 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.64E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 382      | 0.5477  | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.36E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 383      | 0.59749 | 0.0111 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.93E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 384      | 0.62971 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.31E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 385      | 0.64012 | 0.0111 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.43E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 386      | 0.62903 | 0.0111 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.30E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 387      | 0.5807  | 0.0111 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 388      | 0.55072 | 0.0111 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.39E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 389      | 0.49043 | 0.0111 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.69E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 3.1E-08 | 3.1E-02 |
| 390      | 0.45288 | 0.0111 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.26E-06 | 1.1 | 10  | 0.03 | 70 | 1   | 2.8E-08 | 2.8E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 1.58E-03 | 5   | 3.17E-04 | 1.90E-02 |
| 2  | 1.48E-03 | 5   | 2.97E-04 |          |
| 3  | 1.36E-03 | 5   | 2.71E-04 |          |
| 4  | 1.26E-03 | 5   | 2.51E-04 |          |
| 5  | 1.15E-03 | 5   | 2.29E-04 |          |
| 6  | 1.06E-03 | 5   | 2.13E-04 |          |
| 7  | 2.01E-03 | 5   | 4.02E-04 |          |
| 8  | 1.84E-03 | 5   | 3.69E-04 |          |
| 9  | 1.62E-03 | 5   | 3.23E-04 |          |
| 10 | 1.51E-03 | 5   | 3.01E-04 |          |
| 11 | 1.32E-03 | 5   | 2.64E-04 |          |
| 12 | 1.24E-03 | 5   | 2.48E-04 |          |
| 13 | 1.17E-03 | 5   | 2.34E-04 |          |
| 14 | 2.21E-03 | 5   | 4.42E-04 |          |
| 15 | 2.06E-03 | 5   | 4.12E-04 |          |
| 16 | 1.85E-03 | 5   | 3.70E-04 |          |
| 17 | 1.63E-03 | 5   | 3.26E-04 |          |
| 18 | 1.48E-03 | 5   | 2.96E-04 |          |
| 19 | 1.35E-03 | 5   | 2.70E-04 |          |
| 20 | 1.26E-03 | 5   | 2.52E-04 |          |
| 21 | 4.86E-03 | 5   | 9.73E-04 |          |
| 22 | 5.57E-03 | 5   | 1.11E-03 |          |
| 23 | 5.98E-03 | 5   | 1.20E-03 |          |
| 24 | 6.11E-03 | 5   | 1.22E-03 |          |
| 25 | 6.78E-03 | 5   | 1.36E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 6.61E-03    | 5          | 1.32E-03  |
| 27       | 6.09E-03    | 5          | 1.22E-03  |
| 28       | 5.41E-03    | 5          | 1.08E-03  |
| 29       | 4.58E-03    | 5          | 9.16E-04  |
| 30       | 3.00E-03    | 5          | 6.01E-04  |
| 31       | 2.77E-03    | 5          | 5.55E-04  |
| 32       | 2.26E-03    | 5          | 4.53E-04  |
| 33       | 2.15E-03    | 5          | 4.30E-04  |
| 34       | 1.78E-03    | 5          | 3.57E-04  |
| 35       | 1.65E-03    | 5          | 3.30E-04  |
| 36       | 1.47E-03    | 5          | 2.95E-04  |
| 37       | 1.39E-03    | 5          | 2.79E-04  |
| 38       | 6.56E-03    | 5          | 1.31E-03  |
| 39       | 5.94E-03    | 5          | 1.19E-03  |
| 40       | 6.36E-03    | 5          | 1.27E-03  |
| 41       | 6.50E-03    | 5          | 1.30E-03  |
| 42       | 6.84E-03    | 5          | 1.37E-03  |
| 43       | 7.08E-03    | 5          | 1.42E-03  |
| 44       | 6.74E-03    | 5          | 1.35E-03  |
| 45       | 5.96E-03    | 5          | 1.19E-03  |
| 46       | 5.10E-03    | 5          | 1.02E-03  |
| 47       | 4.64E-03    | 5          | 9.28E-04  |
| 48       | 3.66E-03    | 5          | 7.31E-04  |
| 49       | 3.17E-03    | 5          | 6.33E-04  |
| 50       | 2.87E-03    | 5          | 5.73E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 2.57E-03    | 5          | 5.13E-04  |
| 52       | 2.05E-03    | 5          | 4.09E-04  |
| 53       | 1.81E-03    | 5          | 3.62E-04  |
| 54       | 1.66E-03    | 5          | 3.32E-04  |
| 55       | 1.69E-03    | 5          | 3.38E-04  |
| 56       | 6.20E-03    | 5          | 1.24E-03  |
| 57       | 6.32E-03    | 5          | 1.26E-03  |
| 58       | 6.53E-03    | 5          | 1.31E-03  |
| 59       | 7.59E-03    | 5          | 1.52E-03  |
| 60       | 7.69E-03    | 5          | 1.54E-03  |
| 61       | 8.18E-03    | 5          | 1.64E-03  |
| 62       | 8.01E-03    | 5          | 1.60E-03  |
| 63       | 6.96E-03    | 5          | 1.39E-03  |
| 64       | 6.28E-03    | 5          | 1.26E-03  |
| 65       | 5.14E-03    | 5          | 1.03E-03  |
| 66       | 5.19E-03    | 5          | 1.04E-03  |
| 67       | 3.65E-03    | 5          | 7.30E-04  |
| 68       | 3.25E-03    | 5          | 6.50E-04  |
| 69       | 3.01E-03    | 5          | 6.01E-04  |
| 70       | 2.90E-03    | 5          | 5.80E-04  |
| 71       | 2.27E-03    | 5          | 4.54E-04  |
| 72       | 2.12E-03    | 5          | 4.23E-04  |
| 73       | 2.44E-03    | 5          | 4.89E-04  |
| 74       | 6.96E-03    | 5          | 1.39E-03  |
| 75       | 7.22E-03    | 5          | 1.44E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 7.27E-03    | 5          | 1.45E-03  |
| 77       | 8.18E-03    | 5          | 1.64E-03  |
| 78       | 9.41E-03    | 5          | 1.88E-03  |
| 79       | 9.87E-03    | 5          | 1.97E-03  |
| 80       | 1.00E-02    | 5          | 2.01E-03  |
| 81       | 9.17E-03    | 5          | 1.83E-03  |
| 82       | 7.87E-03    | 5          | 1.57E-03  |
| 83       | 6.62E-03    | 5          | 1.32E-03  |
| 84       | 7.55E-03    | 5          | 1.51E-03  |
| 85       | 3.84E-03    | 5          | 7.69E-04  |
| 86       | 3.50E-03    | 5          | 7.00E-04  |
| 87       | 3.35E-03    | 5          | 6.71E-04  |
| 88       | 3.17E-03    | 5          | 6.35E-04  |
| 89       | 2.99E-03    | 5          | 5.99E-04  |
| 90       | 2.86E-03    | 5          | 5.72E-04  |
| 91       | 8.50E-03    | 5          | 1.70E-03  |
| 92       | 8.68E-03    | 5          | 1.74E-03  |
| 93       | 9.94E-03    | 5          | 1.99E-03  |
| 94       | 1.05E-02    | 5          | 2.10E-03  |
| 95       | 1.15E-02    | 5          | 2.31E-03  |
| 96       | 1.25E-02    | 5          | 2.50E-03  |
| 97       | 1.16E-02    | 5          | 2.31E-03  |
| 98       | 1.00E-02    | 5          | 2.01E-03  |
| 99       | 9.80E-03    | 5          | 1.96E-03  |
| 100      | 4.90E-03    | 5          | 9.80E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 4.09E-03 | 5   | 8.17E-04 |
| 102           | 3.83E-03 | 5   | 7.65E-04 |
| 103           | 3.64E-03 | 5   | 7.28E-04 |
| 104           | 3.39E-03 | 5   | 6.79E-04 |
| 105           | 3.06E-03 | 5   | 6.12E-04 |
| 106           | 8.98E-03 | 5   | 1.80E-03 |
| 107           | 9.29E-03 | 5   | 1.86E-03 |
| 108           | 1.05E-02 | 5   | 2.10E-03 |
| 109           | 1.10E-02 | 5   | 2.19E-03 |
| 110           | 1.26E-02 | 5   | 2.51E-03 |
| 111           | 1.45E-02 | 5   | 2.90E-03 |
| 112           | 1.57E-02 | 5   | 3.14E-03 |
| 113           | 1.58E-02 | 5   | 3.16E-03 |
| 114           | 1.51E-02 | 5   | 3.02E-03 |
| 115           | 4.54E-03 | 5   | 9.09E-04 |
| 116           | 4.38E-03 | 5   | 8.76E-04 |
| 117           | 4.25E-03 | 5   | 8.51E-04 |
| 118           | 3.72E-03 | 5   | 7.45E-04 |
| 119           | 3.16E-03 | 5   | 6.32E-04 |
| 120           | 1.03E-02 | 5   | 2.06E-03 |
| 121           | 9.61E-03 | 5   | 1.92E-03 |
| 122           | 1.10E-02 | 5   | 2.19E-03 |
| 123           | 1.30E-02 | 5   | 2.60E-03 |
| 124           | 1.54E-02 | 5   | 3.08E-03 |
| 125           | 1.76E-02 | 5   | 3.52E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 126      | 2.19E-02 | 5   | 4.37E-03 |
| 127      | 2.61E-02 | 5   | 5.22E-03 |
| 128      | 7.29E-03 | 5   | 1.46E-03 |
| 129      | 6.13E-03 | 5   | 1.23E-03 |
| 130      | 5.17E-03 | 5   | 1.03E-03 |
| 131      | 4.22E-03 | 5   | 8.44E-04 |
| 132      | 2.90E-03 | 5   | 5.80E-04 |
| 133      | 9.45E-03 | 5   | 1.89E-03 |
| 134      | 1.19E-02 | 5   | 2.39E-03 |
| 135      | 1.50E-02 | 5   | 3.01E-03 |
| 136      | 1.75E-02 | 5   | 3.50E-03 |
| 137      | 2.14E-02 | 5   | 4.29E-03 |
| 138      | 3.01E-02 | 5   | 6.02E-03 |
| 139      | 6.34E-02 | 5   | 1.27E-02 |
| 140      | 7.44E-03 | 5   | 1.49E-03 |
| 141      | 5.87E-03 | 5   | 1.17E-03 |
| 142      | 4.85E-03 | 5   | 9.70E-04 |
| 143      | 3.25E-03 | 5   | 6.49E-04 |
| 144      | 1.39E-02 | 5   | 2.79E-03 |
| 145      | 1.84E-02 | 5   | 3.67E-03 |
| 146      | 2.20E-02 | 5   | 4.41E-03 |
| 147      | 2.94E-02 | 5   | 5.88E-03 |
| 148      | 4.32E-02 | 5   | 8.64E-03 |
| 149      | 3.90E-02 | 5   | 7.80E-03 |
| 150      | 2.26E-02 | 5   | 4.52E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 151      | 1.67E-02    | 5          | 3.34E-03  |
| 152      | 1.36E-02    | 5          | 2.72E-03  |
| 153      | 7.88E-03    | 5          | 1.58E-03  |
| 154      | 6.45E-03    | 5          | 1.29E-03  |
| 155      | 5.25E-03    | 5          | 1.05E-03  |
| 156      | 4.48E-03    | 5          | 8.96E-04  |
| 157      | 3.71E-02    | 5          | 7.42E-03  |
| 158      | 4.18E-02    | 5          | 8.36E-03  |
| 159      | 5.04E-02    | 5          | 1.01E-02  |
| 160      | 2.81E-02    | 5          | 5.62E-03  |
| 161      | 1.83E-02    | 5          | 3.67E-03  |
| 162      | 1.35E-02    | 5          | 2.70E-03  |
| 163      | 6.49E-03    | 5          | 1.30E-03  |
| 164      | 5.69E-03    | 5          | 1.14E-03  |
| 165      | 4.77E-03    | 5          | 9.55E-04  |
| 166      | 5.94E-02    | 5          | 1.19E-02  |
| 167      | 3.26E-02    | 5          | 6.52E-03  |
| 168      | 2.24E-02    | 5          | 4.48E-03  |
| 169      | 1.58E-02    | 5          | 3.16E-03  |
| 170      | 1.20E-02    | 5          | 2.41E-03  |
| 171      | 7.57E-03    | 5          | 1.51E-03  |
| 172      | 5.73E-03    | 5          | 1.15E-03  |
| 173      | 4.75E-03    | 5          | 9.50E-04  |
| 174      | 9.50E-02    | 5          | 1.90E-02  |
| 175      | 6.00E-02    | 5          | 1.20E-02  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 176      | 3.70E-02 | 5   | 7.40E-03 |
| 177      | 2.51E-02 | 5   | 5.03E-03 |
| 178      | 1.77E-02 | 5   | 3.54E-03 |
| 179      | 1.28E-02 | 5   | 2.57E-03 |
| 180      | 9.93E-03 | 5   | 1.99E-03 |
| 181      | 6.89E-03 | 5   | 1.38E-03 |
| 182      | 5.62E-03 | 5   | 1.12E-03 |
| 183      | 7.94E-02 | 5   | 1.59E-02 |
| 184      | 5.62E-02 | 5   | 1.12E-02 |
| 185      | 3.92E-02 | 5   | 7.84E-03 |
| 186      | 2.68E-02 | 5   | 5.36E-03 |
| 187      | 1.96E-02 | 5   | 3.92E-03 |
| 188      | 1.45E-02 | 5   | 2.91E-03 |
| 189      | 1.12E-02 | 5   | 2.24E-03 |
| 190      | 8.93E-03 | 5   | 1.79E-03 |
| 191      | 9.25E-02 | 5   | 1.85E-02 |
| 192      | 6.69E-02 | 5   | 1.34E-02 |
| 193      | 4.95E-02 | 5   | 9.90E-03 |
| 194      | 3.70E-02 | 5   | 7.40E-03 |
| 195      | 2.73E-02 | 5   | 5.47E-03 |
| 196      | 2.05E-02 | 5   | 4.09E-03 |
| 197      | 1.58E-02 | 5   | 3.16E-03 |
| 198      | 1.21E-02 | 5   | 2.41E-03 |
| 199      | 9.72E-03 | 5   | 1.94E-03 |
| 200      | 8.02E-03 | 5   | 1.60E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 201           | 3.61E-02 | 5   | 7.22E-03 |
| 202           | 5.50E-02 | 5   | 1.10E-02 |
| 203           | 6.51E-02 | 5   | 1.30E-02 |
| 204           | 7.09E-02 | 5   | 1.42E-02 |
| 205           | 6.55E-02 | 5   | 1.31E-02 |
| 206           | 5.42E-02 | 5   | 1.08E-02 |
| 207           | 4.36E-02 | 5   | 8.73E-03 |
| 208           | 3.44E-02 | 5   | 6.88E-03 |
| 209           | 2.65E-02 | 5   | 5.31E-03 |
| 210           | 2.07E-02 | 5   | 4.14E-03 |
| 211           | 1.63E-02 | 5   | 3.26E-03 |
| 212           | 1.27E-02 | 5   | 2.55E-03 |
| 213           | 1.04E-02 | 5   | 2.08E-03 |
| 214           | 8.32E-03 | 5   | 1.66E-03 |
| 215           | 6.97E-03 | 5   | 1.39E-03 |
| 216           | 1.68E-02 | 5   | 3.36E-03 |
| 217           | 1.94E-02 | 5   | 3.89E-03 |
| 218           | 2.68E-02 | 5   | 5.35E-03 |
| 219           | 3.43E-02 | 5   | 6.87E-03 |
| 220           | 4.05E-02 | 5   | 8.10E-03 |
| 221           | 4.30E-02 | 5   | 8.61E-03 |
| 222           | 4.14E-02 | 5   | 8.27E-03 |
| 223           | 3.62E-02 | 5   | 7.24E-03 |
| 224           | 3.02E-02 | 5   | 6.05E-03 |
| 225           | 2.45E-02 | 5   | 4.90E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 226           | 1.97E-02 | 5   | 3.94E-03 |
| 227           | 1.60E-02 | 5   | 3.20E-03 |
| 228           | 1.29E-02 | 5   | 2.59E-03 |
| 229           | 1.05E-02 | 5   | 2.10E-03 |
| 230           | 8.64E-03 | 5   | 1.73E-03 |
| 231           | 6.91E-03 | 5   | 1.38E-03 |
| 232           | 1.18E-02 | 5   | 2.35E-03 |
| 233           | 1.24E-02 | 5   | 2.48E-03 |
| 234           | 1.64E-02 | 5   | 3.28E-03 |
| 235           | 2.10E-02 | 5   | 4.21E-03 |
| 236           | 2.57E-02 | 5   | 5.15E-03 |
| 237           | 3.01E-02 | 5   | 6.02E-03 |
| 238           | 3.07E-02 | 5   | 6.14E-03 |
| 239           | 2.85E-02 | 5   | 5.71E-03 |
| 240           | 2.53E-02 | 5   | 5.07E-03 |
| 241           | 2.15E-02 | 5   | 4.30E-03 |
| 242           | 1.81E-02 | 5   | 3.62E-03 |
| 243           | 1.51E-02 | 5   | 3.01E-03 |
| 244           | 1.26E-02 | 5   | 2.52E-03 |
| 245           | 1.02E-02 | 5   | 2.04E-03 |
| 246           | 8.66E-03 | 5   | 1.73E-03 |
| 247           | 7.02E-03 | 5   | 1.40E-03 |
| 248           | 9.61E-03 | 5   | 1.92E-03 |
| 249           | 9.51E-03 | 5   | 1.90E-03 |
| 250           | 1.11E-02 | 5   | 2.23E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 1.43E-02 | 5   | 2.86E-03 |
| 252           | 1.82E-02 | 5   | 3.63E-03 |
| 253           | 2.11E-02 | 5   | 4.22E-03 |
| 254           | 2.25E-02 | 5   | 4.50E-03 |
| 255           | 2.23E-02 | 5   | 4.47E-03 |
| 256           | 2.09E-02 | 5   | 4.18E-03 |
| 257           | 1.87E-02 | 5   | 3.74E-03 |
| 258           | 1.62E-02 | 5   | 3.24E-03 |
| 259           | 1.39E-02 | 5   | 2.79E-03 |
| 260           | 1.19E-02 | 5   | 2.39E-03 |
| 261           | 9.92E-03 | 5   | 1.98E-03 |
| 262           | 8.47E-03 | 5   | 1.69E-03 |
| 263           | 7.01E-03 | 5   | 1.40E-03 |
| 264           | 6.44E-03 | 5   | 1.29E-03 |
| 265           | 6.23E-03 | 5   | 1.25E-03 |
| 266           | 6.43E-03 | 5   | 1.29E-03 |
| 267           | 7.38E-03 | 5   | 1.48E-03 |
| 268           | 7.33E-03 | 5   | 1.47E-03 |
| 269           | 8.26E-03 | 5   | 1.65E-03 |
| 270           | 1.02E-02 | 5   | 2.04E-03 |
| 271           | 1.30E-02 | 5   | 2.60E-03 |
| 272           | 1.54E-02 | 5   | 3.08E-03 |
| 273           | 1.70E-02 | 5   | 3.40E-03 |
| 274           | 1.75E-02 | 5   | 3.51E-03 |
| 275           | 1.70E-02 | 5   | 3.40E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 276      | 1.59E-02 | 5   | 3.18E-03 |
| 277      | 1.43E-02 | 5   | 2.86E-03 |
| 278      | 1.27E-02 | 5   | 2.53E-03 |
| 279      | 1.11E-02 | 5   | 2.22E-03 |
| 280      | 9.48E-03 | 5   | 1.90E-03 |
| 281      | 8.01E-03 | 5   | 1.60E-03 |
| 282      | 6.75E-03 | 5   | 1.35E-03 |
| 283      | 5.12E-03 | 5   | 1.02E-03 |
| 284      | 4.91E-03 | 5   | 9.82E-04 |
| 285      | 4.81E-03 | 5   | 9.62E-04 |
| 286      | 5.09E-03 | 5   | 1.02E-03 |
| 287      | 5.81E-03 | 5   | 1.16E-03 |
| 288      | 6.33E-03 | 5   | 1.27E-03 |
| 289      | 6.59E-03 | 5   | 1.32E-03 |
| 290      | 7.97E-03 | 5   | 1.59E-03 |
| 291      | 9.72E-03 | 5   | 1.94E-03 |
| 292      | 1.16E-02 | 5   | 2.31E-03 |
| 293      | 1.31E-02 | 5   | 2.61E-03 |
| 294      | 1.39E-02 | 5   | 2.78E-03 |
| 295      | 1.40E-02 | 5   | 2.79E-03 |
| 296      | 1.35E-02 | 5   | 2.70E-03 |
| 297      | 1.26E-02 | 5   | 2.52E-03 |
| 298      | 1.14E-02 | 5   | 2.28E-03 |
| 299      | 1.02E-02 | 5   | 2.04E-03 |
| 300      | 8.91E-03 | 5   | 1.78E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 301      | 7.34E-03 | 5   | 1.47E-03 |
| 302      | 6.46E-03 | 5   | 1.29E-03 |
| 303      | 4.35E-03 | 5   | 8.70E-04 |
| 304      | 3.99E-03 | 5   | 7.98E-04 |
| 305      | 3.94E-03 | 5   | 7.89E-04 |
| 306      | 3.82E-03 | 5   | 7.64E-04 |
| 307      | 3.93E-03 | 5   | 7.85E-04 |
| 308      | 4.34E-03 | 5   | 8.68E-04 |
| 309      | 4.90E-03 | 5   | 9.80E-04 |
| 310      | 5.31E-03 | 5   | 1.06E-03 |
| 311      | 6.26E-03 | 5   | 1.25E-03 |
| 312      | 7.52E-03 | 5   | 1.50E-03 |
| 313      | 8.93E-03 | 5   | 1.79E-03 |
| 314      | 1.02E-02 | 5   | 2.04E-03 |
| 315      | 1.11E-02 | 5   | 2.23E-03 |
| 316      | 1.15E-02 | 5   | 2.31E-03 |
| 317      | 1.14E-02 | 5   | 2.28E-03 |
| 318      | 1.09E-02 | 5   | 2.18E-03 |
| 319      | 1.02E-02 | 5   | 2.03E-03 |
| 320      | 9.18E-03 | 5   | 1.84E-03 |
| 321      | 8.23E-03 | 5   | 1.65E-03 |
| 322      | 6.83E-03 | 5   | 1.37E-03 |
| 323      | 6.12E-03 | 5   | 1.22E-03 |
| 324      | 4.23E-03 | 5   | 8.46E-04 |
| 325      | 3.68E-03 | 5   | 7.36E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 326      | 3.59E-03 | 5   | 7.17E-04 |
| 327      | 3.25E-03 | 5   | 6.50E-04 |
| 328      | 3.25E-03 | 5   | 6.49E-04 |
| 329      | 3.52E-03 | 5   | 7.04E-04 |
| 330      | 3.67E-03 | 5   | 7.34E-04 |
| 331      | 3.98E-03 | 5   | 7.97E-04 |
| 332      | 4.47E-03 | 5   | 8.95E-04 |
| 333      | 5.08E-03 | 5   | 1.02E-03 |
| 334      | 5.98E-03 | 5   | 1.20E-03 |
| 335      | 7.05E-03 | 5   | 1.41E-03 |
| 336      | 8.12E-03 | 5   | 1.62E-03 |
| 337      | 8.97E-03 | 5   | 1.79E-03 |
| 338      | 9.54E-03 | 5   | 1.91E-03 |
| 339      | 9.70E-03 | 5   | 1.94E-03 |
| 340      | 9.48E-03 | 5   | 1.90E-03 |
| 341      | 9.02E-03 | 5   | 1.80E-03 |
| 342      | 8.10E-03 | 5   | 1.62E-03 |
| 343      | 7.46E-03 | 5   | 1.49E-03 |
| 344      | 6.36E-03 | 5   | 1.27E-03 |
| 345      | 5.76E-03 | 5   | 1.15E-03 |
| 346      | 3.22E-03 | 5   | 6.44E-04 |
| 347      | 3.09E-03 | 5   | 6.19E-04 |
| 348      | 2.96E-03 | 5   | 5.93E-04 |
| 349      | 2.81E-03 | 5   | 5.62E-04 |
| 350      | 2.84E-03 | 5   | 5.68E-04 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 3.02E-03 | 5   | 6.05E-04 |
| 352           | 3.21E-03 | 5   | 6.43E-04 |
| 353           | 3.41E-03 | 5   | 6.81E-04 |
| 354           | 3.74E-03 | 5   | 7.47E-04 |
| 355           | 4.10E-03 | 5   | 8.19E-04 |
| 356           | 4.89E-03 | 5   | 9.77E-04 |
| 357           | 5.70E-03 | 5   | 1.14E-03 |
| 358           | 6.57E-03 | 5   | 1.31E-03 |
| 359           | 7.34E-03 | 5   | 1.47E-03 |
| 360           | 7.93E-03 | 5   | 1.59E-03 |
| 361           | 8.21E-03 | 5   | 1.64E-03 |
| 362           | 8.25E-03 | 5   | 1.65E-03 |
| 363           | 7.99E-03 | 5   | 1.60E-03 |
| 364           | 7.23E-03 | 5   | 1.45E-03 |
| 365           | 6.77E-03 | 5   | 1.35E-03 |
| 366           | 5.89E-03 | 5   | 1.18E-03 |
| 367           | 5.39E-03 | 5   | 1.08E-03 |
| 368           | 2.79E-03 | 5   | 5.59E-04 |
| 369           | 2.74E-03 | 5   | 5.48E-04 |
| 370           | 2.59E-03 | 5   | 5.18E-04 |
| 371           | 2.42E-03 | 5   | 4.84E-04 |
| 372           | 2.52E-03 | 5   | 5.03E-04 |
| 373           | 2.45E-03 | 5   | 4.91E-04 |
| 374           | 2.68E-03 | 5   | 5.35E-04 |
| 375           | 2.78E-03 | 5   | 5.57E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3B**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 3.05E-03    | 5          | 6.09E-04  |
| 377      | 3.29E-03    | 5          | 6.59E-04  |
| 378      | 3.51E-03    | 5          | 7.01E-04  |
| 379      | 4.05E-03    | 5          | 8.10E-04  |
| 380      | 4.48E-03    | 5          | 8.97E-04  |
| 381      | 5.40E-03    | 5          | 1.08E-03  |
| 382      | 6.08E-03    | 5          | 1.22E-03  |
| 383      | 6.63E-03    | 5          | 1.33E-03  |
| 384      | 6.99E-03    | 5          | 1.40E-03  |
| 385      | 7.11E-03    | 5          | 1.42E-03  |
| 386      | 6.98E-03    | 5          | 1.40E-03  |
| 387      | 6.45E-03    | 5          | 1.29E-03  |
| 388      | 6.11E-03    | 5          | 1.22E-03  |
| 389      | 5.45E-03    | 5          | 1.09E-03  |
| 390      | 5.03E-03    | 5          | 1.01E-03  |

**Risk Calculations - Birth to 2 years**  
**Construction Phase 3C**

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor |         | Consta |         |      |   |      |       |          |     |     |      |    | RISK |         | (Risk/  |          |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|------|---------|---------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH  | (0-2)   | Mill)   |          |
| 1        | 0.14257 | 0.0068 | 9.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 1.02E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.4E-08 | 1.4E-02 | Max      |
| 2        | 0.13369 | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.55E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.3E-08 | 1.3E-02 | 8.23E-01 |
| 3        | 0.12214 | 0.0068 | 8.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.73E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.2E-08 | 1.2E-02 |          |
| 4        | 0.11318 | 0.0068 | 7.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.09E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.1E-08 | 1.1E-02 |          |
| 5        | 0.10329 | 0.0068 | 7.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.38E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 9.9E-09 | 9.9E-03 |          |
| 6        | 0.0959  | 0.0068 | 6.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 6.85E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 9.2E-09 | 9.2E-03 |          |
| 7        | 0.18122 | 0.0068 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.29E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.7E-08 | 1.7E-02 |          |
| 8        | 0.16599 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.19E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.6E-08 | 1.6E-02 |          |
| 9        | 0.14564 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.04E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.4E-08 | 1.4E-02 |          |
| 10       | 0.13566 | 0.0068 | 9.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.69E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.3E-08 | 1.3E-02 |          |
| 11       | 0.11905 | 0.0068 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.51E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.1E-08 | 1.1E-02 |          |
| 12       | 0.11174 | 0.0068 | 7.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.98E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.1E-08 | 1.1E-02 |          |
| 13       | 0.10516 | 0.0068 | 7.2E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.51E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.0E-08 | 1.0E-02 |          |
| 14       | 0.19891 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.42E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.9E-08 | 1.9E-02 |          |
| 15       | 0.18538 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.32E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.8E-08 | 1.8E-02 |          |
| 16       | 0.16647 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.19E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.6E-08 | 1.6E-02 |          |
| 17       | 0.14661 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.05E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.4E-08 | 1.4E-02 |          |
| 18       | 0.13322 | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.52E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.3E-08 | 1.3E-02 |          |
| 19       | 0.12149 | 0.0068 | 8.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.68E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.2E-08 | 1.2E-02 |          |
| 20       | 0.11331 | 0.0068 | 7.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.10E-07 | 1.1 | 10  | 0.09 | 70 | 1    | 1.1E-08 | 1.1E-02 |          |
| 21       | 0.43801 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.13E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 4.2E-08 | 4.2E-02 |          |
| 22       | 0.5016  | 0.0068 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.58E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 4.8E-08 | 4.8E-02 |          |
| 23       | 0.53845 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.85E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 5.2E-08 | 5.2E-02 |          |
| 24       | 0.55059 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.93E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 5.3E-08 | 5.3E-02 |          |
| 25       | 0.61064 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.36E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 5.9E-08 | 5.9E-02 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 26       | 0.59517 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.25E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 27       | 0.54814 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.92E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 28       | 0.48705 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.48E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 29       | 0.41251 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.95E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 30       | 0.27062 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.93E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 31       | 0.24985 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.79E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 32       | 0.20383 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.46E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 33       | 0.19347 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.38E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-08 | 1.9E-02 |
| 34       | 0.16069 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-08 | 1.5E-02 |
| 35       | 0.14853 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.06E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 36       | 0.1328  | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.49E-07 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-08 | 1.3E-02 |
| 37       | 0.12553 | 0.0068 | 8.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.97E-07 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-08 | 1.2E-02 |
| 38       | 0.59038 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.22E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 39       | 0.53496 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.82E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 40       | 0.57248 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 41       | 0.58509 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.18E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 42       | 0.61645 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.40E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 43       | 0.63781 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.56E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 44       | 0.60659 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.33E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.8E-08 | 5.8E-02 |
| 45       | 0.53649 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.83E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.2E-08 | 5.2E-02 |
| 46       | 0.4596  | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.28E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 47       | 0.41777 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.99E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.0E-08 | 4.0E-02 |
| 48       | 0.3294  | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 49       | 0.28523 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.04E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 50       | 0.25804 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.84E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-08 | 2.5E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 51       | 0.23121 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.65E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 52       | 0.18436 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.32E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 53       | 0.16289 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-08 | 1.6E-02 |
| 54       | 0.14939 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-08 | 1.4E-02 |
| 55       | 0.15235 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-08 | 1.5E-02 |
| 56       | 0.55797 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.99E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 57       | 0.56885 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.06E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 58       | 0.58821 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.20E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 59       | 0.68345 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.88E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.6E-08 | 6.6E-02 |
| 60       | 0.69254 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.95E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.7E-08 | 6.7E-02 |
| 61       | 0.73699 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.27E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 62       | 0.72167 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |
| 63       | 0.62652 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.48E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.0E-08 | 6.0E-02 |
| 64       | 0.56525 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.04E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 65       | 0.46307 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.31E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 66       | 0.46763 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.34E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 67       | 0.32884 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 68       | 0.29277 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 69       | 0.27065 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.93E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 70       | 0.26125 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.87E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 71       | 0.20425 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.46E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.0E-08 | 2.0E-02 |
| 72       | 0.1906  | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.36E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-08 | 1.8E-02 |
| 73       | 0.22012 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 74       | 0.62675 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.48E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.0E-08 | 6.0E-02 |
| 75       | 0.65056 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.65E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.3E-08 | 6.3E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    | RISK | (Risk/  |         |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|------|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH  | (0-2)   | Mill)   |
| 76       | 0.65456 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.68E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 6.3E-08 | 6.3E-02 |
| 77       | 0.73638 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.26E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 7.1E-08 | 7.1E-02 |
| 78       | 0.8471  | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.05E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 8.2E-08 | 8.2E-02 |
| 79       | 0.88849 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.35E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 8.6E-08 | 8.6E-02 |
| 80       | 0.90496 | 0.0068 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.47E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 8.7E-08 | 8.7E-02 |
| 81       | 0.82607 | 0.0068 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.90E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 8.0E-08 | 8.0E-02 |
| 82       | 0.70876 | 0.0068 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.06E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 6.8E-08 | 6.8E-02 |
| 83       | 0.59652 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.26E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 5.7E-08 | 5.7E-02 |
| 84       | 0.67997 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.86E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 6.5E-08 | 6.5E-02 |
| 85       | 0.34615 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.47E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 3.3E-08 | 3.3E-02 |
| 86       | 0.31525 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.25E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 3.0E-08 | 3.0E-02 |
| 87       | 0.30195 | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.16E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 2.9E-08 | 2.9E-02 |
| 88       | 0.28593 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.04E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 2.8E-08 | 2.8E-02 |
| 89       | 0.2696  | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.93E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 2.6E-08 | 2.6E-02 |
| 90       | 0.25777 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.84E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 2.5E-08 | 2.5E-02 |
| 91       | 0.7657  | 0.0068 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.47E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 7.4E-08 | 7.4E-02 |
| 92       | 0.78216 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.59E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 7.5E-08 | 7.5E-02 |
| 93       | 0.89506 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.40E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 8.6E-08 | 8.6E-02 |
| 94       | 0.94714 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.77E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 9.1E-08 | 9.1E-02 |
| 95       | 1.04003 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.43E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.0E-07 | 1.0E-01 |
| 96       | 1.12421 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.03E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.1E-07 | 1.1E-01 |
| 97       | 1.04229 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.45E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 1.0E-07 | 1.0E-01 |
| 98       | 0.90305 | 0.0068 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.45E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 8.7E-08 | 8.7E-02 |
| 99       | 0.88258 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.31E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 8.5E-08 | 8.5E-02 |
| 100      | 0.44117 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.15E-06 | 1.1 | 10  | 0.09 | 70 | 1    | 4.2E-08 | 4.2E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 101      | 0.36795 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.63E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 102      | 0.34454 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.46E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 103      | 0.32801 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.34E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 104      | 0.30575 | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.18E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 105      | 0.27575 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.97E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 106      | 0.80913 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.78E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 107      | 0.83667 | 0.0068 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.98E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.1E-08 | 8.1E-02 |
| 108      | 0.94434 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.75E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.1E-08 | 9.1E-02 |
| 109      | 0.98691 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.05E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.5E-08 | 9.5E-02 |
| 110      | 1.13153 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.08E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 111      | 1.3058  | 0.0068 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.33E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 112      | 1.41351 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.01E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 113      | 1.42196 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.02E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 114      | 1.36036 | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 115      | 0.40925 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.92E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 116      | 0.39445 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.82E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 117      | 0.38313 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.74E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 118      | 0.33537 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.40E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 119      | 0.28473 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.03E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 120      | 0.92954 | 0.0068 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.64E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 121      | 0.86551 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.18E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.3E-08 | 8.3E-02 |
| 122      | 0.98739 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.06E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.5E-08 | 9.5E-02 |
| 123      | 1.16933 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 124      | 1.386   | 0.0068 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.90E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 125      | 1.58316 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.13E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 126      | 1.96907 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 127      | 2.35262 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 128      | 0.65638 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.69E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.3E-08 | 6.3E-02 |
| 129      | 0.55176 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.94E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 130      | 0.46604 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.33E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.5E-08 | 4.5E-02 |
| 131      | 0.38018 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 132      | 0.26126 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-08 | 2.5E-02 |
| 133      | 0.85154 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.08E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 134      | 1.07595 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.69E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 135      | 1.3543  | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.68E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 136      | 1.57548 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 137      | 1.93144 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 138      | 2.71283 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.94E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-07 | 2.6E-01 |
| 139      | 5.71455 | 0.0068 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.08E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.5E-07 | 5.5E-01 |
| 140      | 0.67028 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.79E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 141      | 0.52905 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.78E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 142      | 0.43694 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.12E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 143      | 0.29239 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 144      | 1.25505 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.97E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 145      | 1.65273 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 146      | 1.98418 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 147      | 2.64664 | 0.0068 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-07 | 2.5E-01 |
| 148      | 3.89148 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.78E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.7E-07 | 3.7E-01 |
| 149      | 3.51153 | 0.0068 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.51E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.4E-07 | 3.4E-01 |
| 150      | 2.03503 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.45E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.0E-07 | 2.0E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 151      | 1.50481 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 152      | 1.22329 | 0.0068 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.74E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 153      | 0.70991 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.8E-08 | 6.8E-02 |
| 154      | 0.58106 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 155      | 0.47279 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.38E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 156      | 0.40353 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 157      | 3.34251 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.39E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-07 | 3.2E-01 |
| 158      | 3.76257 | 0.0068 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.6E-07 | 3.6E-01 |
| 159      | 4.54045 | 0.0068 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.24E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-07 | 4.4E-01 |
| 160      | 2.52972 | 0.0068 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-07 | 2.4E-01 |
| 161      | 1.65138 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 162      | 1.21511 | 0.0068 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.68E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 163      | 0.58478 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.18E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 164      | 0.51231 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 165      | 0.43002 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 166      | 5.34751 | 0.0068 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.82E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.1E-07 | 5.1E-01 |
| 167      | 2.93781 | 0.0068 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.10E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-07 | 2.8E-01 |
| 168      | 2.01593 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 169      | 1.42521 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 170      | 1.08462 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.75E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 171      | 0.68161 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.87E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.6E-08 | 6.6E-02 |
| 172      | 0.51579 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.69E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.0E-08 | 5.0E-02 |
| 173      | 0.42776 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.06E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.1E-08 | 4.1E-02 |
| 174      | 8.55485 | 0.0068 | 5.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.11E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 8.2E-07 | 8.2E-01 |
| 175      | 5.40053 | 0.0068 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.86E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.2E-07 | 5.2E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 176      | 3.33391 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.38E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-07 | 3.2E-01 |
| 177      | 2.2635  | 0.0068 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.62E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-07 | 2.2E-01 |
| 178      | 1.59628 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.14E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 179      | 1.15673 | 0.0068 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.26E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 180      | 0.89425 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.39E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.6E-08 | 8.6E-02 |
| 181      | 0.62061 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.43E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.0E-08 | 6.0E-02 |
| 182      | 0.50601 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.62E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 183      | 7.15077 | 0.0068 | 4.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 5.11E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-07 | 6.9E-01 |
| 184      | 5.06388 | 0.0068 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.62E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 4.9E-07 | 4.9E-01 |
| 185      | 3.52857 | 0.0068 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.52E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.4E-07 | 3.4E-01 |
| 186      | 2.41297 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.72E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 187      | 1.76478 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.26E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 188      | 1.30975 | 0.0068 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.36E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 189      | 1.01047 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.22E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.7E-08 | 9.7E-02 |
| 190      | 0.80384 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.74E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.7E-08 | 7.7E-02 |
| 191      | 8.32687 | 0.0068 | 5.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 5.95E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 8.0E-07 | 8.0E-01 |
| 192      | 6.02533 | 0.0068 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.31E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.8E-07 | 5.8E-01 |
| 193      | 4.45973 | 0.0068 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.19E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 4.3E-07 | 4.3E-01 |
| 194      | 3.33262 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.38E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-07 | 3.2E-01 |
| 195      | 2.46305 | 0.0068 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.76E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-07 | 2.4E-01 |
| 196      | 1.84191 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.32E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 197      | 1.42077 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.02E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 198      | 1.08702 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.77E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 199      | 0.87584 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.26E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.4E-08 | 8.4E-02 |
| 200      | 0.72192 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 201      | 3.24959 | 0.0068 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.32E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.1E-07 | 3.1E-01 |
| 202      | 4.95098 | 0.0068 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.54E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 4.8E-07 | 4.8E-01 |
| 203      | 5.8668  | 0.0068 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.19E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-07 | 5.6E-01 |
| 204      | 6.38123 | 0.0068 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.56E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-07 | 6.1E-01 |
| 205      | 5.89622 | 0.0068 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 4.21E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-07 | 5.7E-01 |
| 206      | 4.88452 | 0.0068 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 3.49E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 4.7E-07 | 4.7E-01 |
| 207      | 3.92915 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.81E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.8E-07 | 3.8E-01 |
| 208      | 3.09747 | 0.0068 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.21E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.0E-07 | 3.0E-01 |
| 209      | 2.38952 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.71E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 210      | 1.86639 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.33E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 211      | 1.46676 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.05E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 212      | 1.14687 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.19E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 213      | 0.93847 | 0.0068 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.71E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.0E-08 | 9.0E-02 |
| 214      | 0.74904 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.2E-08 | 7.2E-02 |
| 215      | 0.62804 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.49E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.0E-08 | 6.0E-02 |
| 216      | 1.51358 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.08E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 217      | 1.75108 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.25E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 218      | 2.40965 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.72E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.3E-07 | 2.3E-01 |
| 219      | 3.09162 | 0.0068 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.21E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.0E-07 | 3.0E-01 |
| 220      | 3.64843 | 0.0068 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.61E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.5E-07 | 3.5E-01 |
| 221      | 3.87704 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.77E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.7E-07 | 3.7E-01 |
| 222      | 3.7245  | 0.0068 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.66E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.6E-07 | 3.6E-01 |
| 223      | 3.25928 | 0.0068 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06 | 2.33E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 3.1E-07 | 3.1E-01 |
| 224      | 2.72345 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.95E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-07 | 2.6E-01 |
| 225      | 2.20632 | 0.0068 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.58E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.1E-07 | 2.1E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 226      | 1.77318 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.7E-07 | 1.7E-01 |
| 227      | 1.44239 | 0.0068 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 228      | 1.16513 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.32E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 229      | 0.94394 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.1E-08 | 9.1E-02 |
| 230      | 0.77791 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.56E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.5E-08 | 7.5E-02 |
| 231      | 0.62195 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.44E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.0E-08 | 6.0E-02 |
| 232      | 1.05953 | 0.0068 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 233      | 1.11661 | 0.0068 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.98E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 234      | 1.47792 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 235      | 1.89467 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 236      | 2.31891 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-07 | 2.2E-01 |
| 237      | 2.71307 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.94E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-07 | 2.6E-01 |
| 238      | 2.76677 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.7E-07 | 2.7E-01 |
| 239      | 2.56931 | 0.0068 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-07 | 2.5E-01 |
| 240      | 2.2825  | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-07 | 2.2E-01 |
| 241      | 1.93631 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 242      | 1.63045 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 243      | 1.35634 | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.69E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 244      | 1.13547 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.11E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 245      | 0.91896 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.8E-08 | 8.8E-02 |
| 246      | 0.77965 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.5E-08 | 7.5E-02 |
| 247      | 0.63206 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.52E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 248      | 0.86538 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.3E-08 | 8.3E-02 |
| 249      | 0.85659 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.12E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 250      | 1.00342 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.17E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.7E-08 | 9.7E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 251      | 1.28849 | 0.0068 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.21E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 252      | 1.63636 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.17E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 253      | 1.90198 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.36E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 254      | 2.02634 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.45E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 2.0E-07 | 2.0E-01 |
| 255      | 2.01179 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.44E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.9E-07 | 1.9E-01 |
| 256      | 1.88256 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.35E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.8E-07 | 1.8E-01 |
| 257      | 1.68205 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.20E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.6E-07 | 1.6E-01 |
| 258      | 1.46116 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.04E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 259      | 1.25462 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.96E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 260      | 1.07567 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.69E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 261      | 0.89369 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.39E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.6E-08 | 8.6E-02 |
| 262      | 0.7632  | 0.0068 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.45E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.3E-08 | 7.3E-02 |
| 263      | 0.63167 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.51E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 264      | 0.58009 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.14E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 265      | 0.56073 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.01E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 266      | 0.57902 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.14E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 267      | 0.66488 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.75E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 268      | 0.66061 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 269      | 0.74394 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.32E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.2E-08 | 7.2E-02 |
| 270      | 0.92034 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.58E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 271      | 1.1693  | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 272      | 1.38588 | 0.0068 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.90E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.3E-07 | 1.3E-01 |
| 273      | 1.53028 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.09E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 274      | 1.58042 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.13E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |
| 275      | 1.5324  | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06 | 1.09E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.5E-07 | 1.5E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 276      | 1.43091 | 0.0068 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.02E-05 | 1.1 | 10  | 0.09 | 70 | 1   | 1.4E-07 | 1.4E-01 |
| 277      | 1.28867 | 0.0068 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 9.21E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 278      | 1.14049 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 279      | 1.0007  | 0.0068 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.6E-08 | 9.6E-02 |
| 280      | 0.85395 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.10E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 281      | 0.7216  | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |
| 282      | 0.60823 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 283      | 0.46088 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.29E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 284      | 0.44204 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.3E-08 | 4.3E-02 |
| 285      | 0.43325 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.10E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 286      | 0.45841 | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.28E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 287      | 0.52307 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.74E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.0E-08 | 5.0E-02 |
| 288      | 0.56987 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 289      | 0.59322 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.24E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 290      | 0.71744 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.13E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |
| 291      | 0.87548 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.26E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.4E-08 | 8.4E-02 |
| 292      | 1.04219 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.45E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 293      | 1.17605 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.40E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 294      | 1.25313 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.95E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 295      | 1.25792 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.99E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 296      | 1.21473 | 0.0068 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.68E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.2E-07 | 1.2E-01 |
| 297      | 1.13348 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 8.10E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.1E-07 | 1.1E-01 |
| 298      | 1.02677 | 0.0068 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.34E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.9E-08 | 9.9E-02 |
| 299      | 0.91652 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.55E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.8E-08 | 8.8E-02 |
| 300      | 0.80208 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.73E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.7E-08 | 7.7E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 301      | 0.6609  | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 302      | 0.58197 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 303      | 0.39159 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.80E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 304      | 0.35914 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 305      | 0.35529 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.54E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 306      | 0.34386 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.46E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.3E-08 | 3.3E-02 |
| 307      | 0.35356 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.53E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.4E-08 | 3.4E-02 |
| 308      | 0.39073 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.79E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.8E-08 | 3.8E-02 |
| 309      | 0.44141 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 310      | 0.47846 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.42E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.6E-08 | 4.6E-02 |
| 311      | 0.56418 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.03E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.4E-08 | 5.4E-02 |
| 312      | 0.67741 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.84E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 313      | 0.80426 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.75E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.7E-08 | 7.7E-02 |
| 314      | 0.92054 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.58E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.9E-08 | 8.9E-02 |
| 315      | 1.00261 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.16E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.6E-08 | 9.6E-02 |
| 316      | 1.03928 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.43E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 1.0E-07 | 1.0E-01 |
| 317      | 1.02828 | 0.0068 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.35E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.9E-08 | 9.9E-02 |
| 318      | 0.98264 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 7.02E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 9.5E-08 | 9.5E-02 |
| 319      | 0.91474 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.54E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.8E-08 | 8.8E-02 |
| 320      | 0.82666 | 0.0068 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.91E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.0E-08 | 8.0E-02 |
| 321      | 0.74121 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.30E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 322      | 0.6153  | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.40E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 323      | 0.55156 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.94E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 324      | 0.38105 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.7E-08 | 3.7E-02 |
| 325      | 0.33126 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.37E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 326      | 0.32305 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.31E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.1E-08 | 3.1E-02 |
| 327      | 0.29252 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 328      | 0.29248 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 329      | 0.317   | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.27E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.1E-08 | 3.1E-02 |
| 330      | 0.33066 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.36E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 331      | 0.35869 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.56E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 332      | 0.40288 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.88E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 333      | 0.4573  | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.27E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-08 | 4.4E-02 |
| 334      | 0.53898 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.85E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.2E-08 | 5.2E-02 |
| 335      | 0.63508 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.54E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 336      | 0.73114 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.22E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.0E-08 | 7.0E-02 |
| 337      | 0.80795 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.77E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 338      | 0.85925 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.14E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.3E-08 | 8.3E-02 |
| 339      | 0.87375 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.24E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.4E-08 | 8.4E-02 |
| 340      | 0.85425 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 6.10E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 8.2E-08 | 8.2E-02 |
| 341      | 0.81269 | 0.0068 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.81E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.8E-08 | 7.8E-02 |
| 342      | 0.72959 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.21E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.0E-08 | 7.0E-02 |
| 343      | 0.67174 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.80E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.5E-08 | 6.5E-02 |
| 344      | 0.57305 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.09E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.5E-08 | 5.5E-02 |
| 345      | 0.51872 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.71E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.0E-08 | 5.0E-02 |
| 346      | 0.29019 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 347      | 0.27864 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.99E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.7E-08 | 2.7E-02 |
| 348      | 0.26697 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.91E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 349      | 0.25326 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.81E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 350      | 0.25562 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.83E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.5E-08 | 2.5E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 351      | 0.2724  | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.95E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 352      | 0.28943 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.07E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.8E-08 | 2.8E-02 |
| 353      | 0.3067  | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.19E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 354      | 0.33648 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.40E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.2E-08 | 3.2E-02 |
| 355      | 0.3689  | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.64E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.6E-08 | 3.6E-02 |
| 356      | 0.44002 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.14E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.2E-08 | 4.2E-02 |
| 357      | 0.51306 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.67E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.9E-08 | 4.9E-02 |
| 358      | 0.59206 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.23E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.7E-08 | 5.7E-02 |
| 359      | 0.66144 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.73E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.4E-08 | 6.4E-02 |
| 360      | 0.71417 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.10E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |
| 361      | 0.73968 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.29E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.1E-08 | 7.1E-02 |
| 362      | 0.74345 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.31E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 7.2E-08 | 7.2E-02 |
| 363      | 0.71982 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 5.14E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.9E-08 | 6.9E-02 |
| 364      | 0.65107 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.65E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.3E-08 | 6.3E-02 |
| 365      | 0.60983 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.36E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.9E-08 | 5.9E-02 |
| 366      | 0.53056 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.79E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.1E-08 | 5.1E-02 |
| 367      | 0.48574 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.47E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 368      | 0.25159 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.80E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 369      | 0.24678 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.76E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-08 | 2.4E-02 |
| 370      | 0.23335 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.67E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 371      | 0.21774 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.56E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 372      | 0.22662 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.62E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.2E-08 | 2.2E-02 |
| 373      | 0.22108 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.58E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.1E-08 | 2.1E-02 |
| 374      | 0.24111 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.72E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.3E-08 | 2.3E-02 |
| 375      | 0.25062 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.79E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.4E-08 | 2.4E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     | RISK    | (Risk/  |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | (0-2)   | Mill)   |
| 376      | 0.27425 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.96E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.6E-08 | 2.6E-02 |
| 377      | 0.29662 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.12E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 2.9E-08 | 2.9E-02 |
| 378      | 0.31582 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.26E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.0E-08 | 3.0E-02 |
| 379      | 0.36484 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.61E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.5E-08 | 3.5E-02 |
| 380      | 0.40393 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.89E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 3.9E-08 | 3.9E-02 |
| 381      | 0.48601 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.47E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 382      | 0.5477  | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.91E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 383      | 0.59749 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.27E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.8E-08 | 5.8E-02 |
| 384      | 0.62971 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.50E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 385      | 0.64012 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.57E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.2E-08 | 6.2E-02 |
| 386      | 0.62903 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.49E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 6.1E-08 | 6.1E-02 |
| 387      | 0.5807  | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.15E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.6E-08 | 5.6E-02 |
| 388      | 0.55072 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.93E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 5.3E-08 | 5.3E-02 |
| 389      | 0.49043 | 0.0068 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.50E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.7E-08 | 4.7E-02 |
| 390      | 0.45288 | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.24E-06 | 1.1 | 10  | 0.09 | 70 | 1   | 4.4E-08 | 4.4E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> | <b>Max</b> |
|----------|-------------|------------|-----------|------------|
| 1        | 9.75E-04    | 5          | 1.95E-04  | 1.17E-02   |
| 2        | 9.14E-04    | 5          | 1.83E-04  |            |
| 3        | 8.35E-04    | 5          | 1.67E-04  |            |
| 4        | 7.74E-04    | 5          | 1.55E-04  |            |
| 5        | 7.06E-04    | 5          | 1.41E-04  |            |
| 6        | 6.56E-04    | 5          | 1.31E-04  |            |
| 7        | 1.24E-03    | 5          | 2.48E-04  |            |
| 8        | 1.13E-03    | 5          | 2.27E-04  |            |
| 9        | 9.96E-04    | 5          | 1.99E-04  |            |
| 10       | 9.27E-04    | 5          | 1.85E-04  |            |
| 11       | 8.14E-04    | 5          | 1.63E-04  |            |
| 12       | 7.64E-04    | 5          | 1.53E-04  |            |
| 13       | 7.19E-04    | 5          | 1.44E-04  |            |
| 14       | 1.36E-03    | 5          | 2.72E-04  |            |
| 15       | 1.27E-03    | 5          | 2.53E-04  |            |
| 16       | 1.14E-03    | 5          | 2.28E-04  |            |
| 17       | 1.00E-03    | 5          | 2.00E-04  |            |
| 18       | 9.11E-04    | 5          | 1.82E-04  |            |
| 19       | 8.31E-04    | 5          | 1.66E-04  |            |
| 20       | 7.75E-04    | 5          | 1.55E-04  |            |
| 21       | 2.99E-03    | 5          | 5.99E-04  |            |
| 22       | 3.43E-03    | 5          | 6.86E-04  |            |
| 23       | 3.68E-03    | 5          | 7.36E-04  |            |
| 24       | 3.76E-03    | 5          | 7.53E-04  |            |
| 25       | 4.17E-03    | 5          | 8.35E-04  |            |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 4.07E-03    | 5          | 8.14E-04  |
| 27       | 3.75E-03    | 5          | 7.49E-04  |
| 28       | 3.33E-03    | 5          | 6.66E-04  |
| 29       | 2.82E-03    | 5          | 5.64E-04  |
| 30       | 1.85E-03    | 5          | 3.70E-04  |
| 31       | 1.71E-03    | 5          | 3.42E-04  |
| 32       | 1.39E-03    | 5          | 2.79E-04  |
| 33       | 1.32E-03    | 5          | 2.65E-04  |
| 34       | 1.10E-03    | 5          | 2.20E-04  |
| 35       | 1.02E-03    | 5          | 2.03E-04  |
| 36       | 9.08E-04    | 5          | 1.82E-04  |
| 37       | 8.58E-04    | 5          | 1.72E-04  |
| 38       | 4.04E-03    | 5          | 8.07E-04  |
| 39       | 3.66E-03    | 5          | 7.31E-04  |
| 40       | 3.91E-03    | 5          | 7.83E-04  |
| 41       | 4.00E-03    | 5          | 8.00E-04  |
| 42       | 4.21E-03    | 5          | 8.43E-04  |
| 43       | 4.36E-03    | 5          | 8.72E-04  |
| 44       | 4.15E-03    | 5          | 8.29E-04  |
| 45       | 3.67E-03    | 5          | 7.33E-04  |
| 46       | 3.14E-03    | 5          | 6.28E-04  |
| 47       | 2.86E-03    | 5          | 5.71E-04  |
| 48       | 2.25E-03    | 5          | 4.50E-04  |
| 49       | 1.95E-03    | 5          | 3.90E-04  |
| 50       | 1.76E-03    | 5          | 3.53E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 1.58E-03    | 5          | 3.16E-04  |
| 52       | 1.26E-03    | 5          | 2.52E-04  |
| 53       | 1.11E-03    | 5          | 2.23E-04  |
| 54       | 1.02E-03    | 5          | 2.04E-04  |
| 55       | 1.04E-03    | 5          | 2.08E-04  |
| 56       | 3.81E-03    | 5          | 7.63E-04  |
| 57       | 3.89E-03    | 5          | 7.78E-04  |
| 58       | 4.02E-03    | 5          | 8.04E-04  |
| 59       | 4.67E-03    | 5          | 9.34E-04  |
| 60       | 4.73E-03    | 5          | 9.47E-04  |
| 61       | 5.04E-03    | 5          | 1.01E-03  |
| 62       | 4.93E-03    | 5          | 9.87E-04  |
| 63       | 4.28E-03    | 5          | 8.57E-04  |
| 64       | 3.86E-03    | 5          | 7.73E-04  |
| 65       | 3.17E-03    | 5          | 6.33E-04  |
| 66       | 3.20E-03    | 5          | 6.39E-04  |
| 67       | 2.25E-03    | 5          | 4.50E-04  |
| 68       | 2.00E-03    | 5          | 4.00E-04  |
| 69       | 1.85E-03    | 5          | 3.70E-04  |
| 70       | 1.79E-03    | 5          | 3.57E-04  |
| 71       | 1.40E-03    | 5          | 2.79E-04  |
| 72       | 1.30E-03    | 5          | 2.61E-04  |
| 73       | 1.50E-03    | 5          | 3.01E-04  |
| 74       | 4.28E-03    | 5          | 8.57E-04  |
| 75       | 4.45E-03    | 5          | 8.89E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 4.47E-03    | 5          | 8.95E-04  |
| 77       | 5.03E-03    | 5          | 1.01E-03  |
| 78       | 5.79E-03    | 5          | 1.16E-03  |
| 79       | 6.07E-03    | 5          | 1.21E-03  |
| 80       | 6.19E-03    | 5          | 1.24E-03  |
| 81       | 5.65E-03    | 5          | 1.13E-03  |
| 82       | 4.85E-03    | 5          | 9.69E-04  |
| 83       | 4.08E-03    | 5          | 8.16E-04  |
| 84       | 4.65E-03    | 5          | 9.30E-04  |
| 85       | 2.37E-03    | 5          | 4.73E-04  |
| 86       | 2.16E-03    | 5          | 4.31E-04  |
| 87       | 2.06E-03    | 5          | 4.13E-04  |
| 88       | 1.95E-03    | 5          | 3.91E-04  |
| 89       | 1.84E-03    | 5          | 3.69E-04  |
| 90       | 1.76E-03    | 5          | 3.52E-04  |
| 91       | 5.23E-03    | 5          | 1.05E-03  |
| 92       | 5.35E-03    | 5          | 1.07E-03  |
| 93       | 6.12E-03    | 5          | 1.22E-03  |
| 94       | 6.47E-03    | 5          | 1.29E-03  |
| 95       | 7.11E-03    | 5          | 1.42E-03  |
| 96       | 7.69E-03    | 5          | 1.54E-03  |
| 97       | 7.13E-03    | 5          | 1.43E-03  |
| 98       | 6.17E-03    | 5          | 1.23E-03  |
| 99       | 6.03E-03    | 5          | 1.21E-03  |
| 100      | 3.02E-03    | 5          | 6.03E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 2.52E-03 | 5   | 5.03E-04 |
| 102           | 2.36E-03 | 5   | 4.71E-04 |
| 103           | 2.24E-03 | 5   | 4.48E-04 |
| 104           | 2.09E-03 | 5   | 4.18E-04 |
| 105           | 1.89E-03 | 5   | 3.77E-04 |
| 106           | 5.53E-03 | 5   | 1.11E-03 |
| 107           | 5.72E-03 | 5   | 1.14E-03 |
| 108           | 6.46E-03 | 5   | 1.29E-03 |
| 109           | 6.75E-03 | 5   | 1.35E-03 |
| 110           | 7.74E-03 | 5   | 1.55E-03 |
| 111           | 8.93E-03 | 5   | 1.79E-03 |
| 112           | 9.66E-03 | 5   | 1.93E-03 |
| 113           | 9.72E-03 | 5   | 1.94E-03 |
| 114           | 9.30E-03 | 5   | 1.86E-03 |
| 115           | 2.80E-03 | 5   | 5.60E-04 |
| 116           | 2.70E-03 | 5   | 5.39E-04 |
| 117           | 2.62E-03 | 5   | 5.24E-04 |
| 118           | 2.29E-03 | 5   | 4.59E-04 |
| 119           | 1.95E-03 | 5   | 3.89E-04 |
| 120           | 6.35E-03 | 5   | 1.27E-03 |
| 121           | 5.92E-03 | 5   | 1.18E-03 |
| 122           | 6.75E-03 | 5   | 1.35E-03 |
| 123           | 7.99E-03 | 5   | 1.60E-03 |
| 124           | 9.47E-03 | 5   | 1.89E-03 |
| 125           | 1.08E-02 | 5   | 2.16E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 126           | 1.35E-02 | 5   | 2.69E-03 |
| 127           | 1.61E-02 | 5   | 3.22E-03 |
| 128           | 4.49E-03 | 5   | 8.97E-04 |
| 129           | 3.77E-03 | 5   | 7.54E-04 |
| 130           | 3.19E-03 | 5   | 6.37E-04 |
| 131           | 2.60E-03 | 5   | 5.20E-04 |
| 132           | 1.79E-03 | 5   | 3.57E-04 |
| 133           | 5.82E-03 | 5   | 1.16E-03 |
| 134           | 7.36E-03 | 5   | 1.47E-03 |
| 135           | 9.26E-03 | 5   | 1.85E-03 |
| 136           | 1.08E-02 | 5   | 2.15E-03 |
| 137           | 1.32E-02 | 5   | 2.64E-03 |
| 138           | 1.85E-02 | 5   | 3.71E-03 |
| 139           | 3.91E-02 | 5   | 7.81E-03 |
| 140           | 4.58E-03 | 5   | 9.16E-04 |
| 141           | 3.62E-03 | 5   | 7.23E-04 |
| 142           | 2.99E-03 | 5   | 5.97E-04 |
| 143           | 2.00E-03 | 5   | 4.00E-04 |
| 144           | 8.58E-03 | 5   | 1.72E-03 |
| 145           | 1.13E-02 | 5   | 2.26E-03 |
| 146           | 1.36E-02 | 5   | 2.71E-03 |
| 147           | 1.81E-02 | 5   | 3.62E-03 |
| 148           | 2.66E-02 | 5   | 5.32E-03 |
| 149           | 2.40E-02 | 5   | 4.80E-03 |
| 150           | 1.39E-02 | 5   | 2.78E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 1.03E-02 | 5   | 2.06E-03 |
| 152           | 8.36E-03 | 5   | 1.67E-03 |
| 153           | 4.85E-03 | 5   | 9.71E-04 |
| 154           | 3.97E-03 | 5   | 7.94E-04 |
| 155           | 3.23E-03 | 5   | 6.46E-04 |
| 156           | 2.76E-03 | 5   | 5.52E-04 |
| 157           | 2.28E-02 | 5   | 4.57E-03 |
| 158           | 2.57E-02 | 5   | 5.14E-03 |
| 159           | 3.10E-02 | 5   | 6.21E-03 |
| 160           | 1.73E-02 | 5   | 3.46E-03 |
| 161           | 1.13E-02 | 5   | 2.26E-03 |
| 162           | 8.31E-03 | 5   | 1.66E-03 |
| 163           | 4.00E-03 | 5   | 8.00E-04 |
| 164           | 3.50E-03 | 5   | 7.00E-04 |
| 165           | 2.94E-03 | 5   | 5.88E-04 |
| 166           | 3.66E-02 | 5   | 7.31E-03 |
| 167           | 2.01E-02 | 5   | 4.02E-03 |
| 168           | 1.38E-02 | 5   | 2.76E-03 |
| 169           | 9.74E-03 | 5   | 1.95E-03 |
| 170           | 7.41E-03 | 5   | 1.48E-03 |
| 171           | 4.66E-03 | 5   | 9.32E-04 |
| 172           | 3.53E-03 | 5   | 7.05E-04 |
| 173           | 2.92E-03 | 5   | 5.85E-04 |
| 174           | 5.85E-02 | 5   | 1.17E-02 |
| 175           | 3.69E-02 | 5   | 7.38E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 2.28E-02 | 5   | 4.56E-03 |
| 177           | 1.55E-02 | 5   | 3.09E-03 |
| 178           | 1.09E-02 | 5   | 2.18E-03 |
| 179           | 7.91E-03 | 5   | 1.58E-03 |
| 180           | 6.11E-03 | 5   | 1.22E-03 |
| 181           | 4.24E-03 | 5   | 8.49E-04 |
| 182           | 3.46E-03 | 5   | 6.92E-04 |
| 183           | 4.89E-02 | 5   | 9.78E-03 |
| 184           | 3.46E-02 | 5   | 6.92E-03 |
| 185           | 2.41E-02 | 5   | 4.82E-03 |
| 186           | 1.65E-02 | 5   | 3.30E-03 |
| 187           | 1.21E-02 | 5   | 2.41E-03 |
| 188           | 8.95E-03 | 5   | 1.79E-03 |
| 189           | 6.91E-03 | 5   | 1.38E-03 |
| 190           | 5.50E-03 | 5   | 1.10E-03 |
| 191           | 5.69E-02 | 5   | 1.14E-02 |
| 192           | 4.12E-02 | 5   | 8.24E-03 |
| 193           | 3.05E-02 | 5   | 6.10E-03 |
| 194           | 2.28E-02 | 5   | 4.56E-03 |
| 195           | 1.68E-02 | 5   | 3.37E-03 |
| 196           | 1.26E-02 | 5   | 2.52E-03 |
| 197           | 9.71E-03 | 5   | 1.94E-03 |
| 198           | 7.43E-03 | 5   | 1.49E-03 |
| 199           | 5.99E-03 | 5   | 1.20E-03 |
| 200           | 4.94E-03 | 5   | 9.87E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 201      | 2.22E-02 | 5   | 4.44E-03 |
| 202      | 3.38E-02 | 5   | 6.77E-03 |
| 203      | 4.01E-02 | 5   | 8.02E-03 |
| 204      | 4.36E-02 | 5   | 8.72E-03 |
| 205      | 4.03E-02 | 5   | 8.06E-03 |
| 206      | 3.34E-02 | 5   | 6.68E-03 |
| 207      | 2.69E-02 | 5   | 5.37E-03 |
| 208      | 2.12E-02 | 5   | 4.23E-03 |
| 209      | 1.63E-02 | 5   | 3.27E-03 |
| 210      | 1.28E-02 | 5   | 2.55E-03 |
| 211      | 1.00E-02 | 5   | 2.01E-03 |
| 212      | 7.84E-03 | 5   | 1.57E-03 |
| 213      | 6.42E-03 | 5   | 1.28E-03 |
| 214      | 5.12E-03 | 5   | 1.02E-03 |
| 215      | 4.29E-03 | 5   | 8.59E-04 |
| 216      | 1.03E-02 | 5   | 2.07E-03 |
| 217      | 1.20E-02 | 5   | 2.39E-03 |
| 218      | 1.65E-02 | 5   | 3.29E-03 |
| 219      | 2.11E-02 | 5   | 4.23E-03 |
| 220      | 2.49E-02 | 5   | 4.99E-03 |
| 221      | 2.65E-02 | 5   | 5.30E-03 |
| 222      | 2.55E-02 | 5   | 5.09E-03 |
| 223      | 2.23E-02 | 5   | 4.46E-03 |
| 224      | 1.86E-02 | 5   | 3.72E-03 |
| 225      | 1.51E-02 | 5   | 3.02E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 226      | 1.21E-02 | 5   | 2.42E-03 |
| 227      | 9.86E-03 | 5   | 1.97E-03 |
| 228      | 7.96E-03 | 5   | 1.59E-03 |
| 229      | 6.45E-03 | 5   | 1.29E-03 |
| 230      | 5.32E-03 | 5   | 1.06E-03 |
| 231      | 4.25E-03 | 5   | 8.50E-04 |
| 232      | 7.24E-03 | 5   | 1.45E-03 |
| 233      | 7.63E-03 | 5   | 1.53E-03 |
| 234      | 1.01E-02 | 5   | 2.02E-03 |
| 235      | 1.30E-02 | 5   | 2.59E-03 |
| 236      | 1.59E-02 | 5   | 3.17E-03 |
| 237      | 1.85E-02 | 5   | 3.71E-03 |
| 238      | 1.89E-02 | 5   | 3.78E-03 |
| 239      | 1.76E-02 | 5   | 3.51E-03 |
| 240      | 1.56E-02 | 5   | 3.12E-03 |
| 241      | 1.32E-02 | 5   | 2.65E-03 |
| 242      | 1.11E-02 | 5   | 2.23E-03 |
| 243      | 9.27E-03 | 5   | 1.85E-03 |
| 244      | 7.76E-03 | 5   | 1.55E-03 |
| 245      | 6.28E-03 | 5   | 1.26E-03 |
| 246      | 5.33E-03 | 5   | 1.07E-03 |
| 247      | 4.32E-03 | 5   | 8.64E-04 |
| 248      | 5.92E-03 | 5   | 1.18E-03 |
| 249      | 5.86E-03 | 5   | 1.17E-03 |
| 250      | 6.86E-03 | 5   | 1.37E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 8.81E-03 | 5   | 1.76E-03 |
| 252           | 1.12E-02 | 5   | 2.24E-03 |
| 253           | 1.30E-02 | 5   | 2.60E-03 |
| 254           | 1.39E-02 | 5   | 2.77E-03 |
| 255           | 1.38E-02 | 5   | 2.75E-03 |
| 256           | 1.29E-02 | 5   | 2.57E-03 |
| 257           | 1.15E-02 | 5   | 2.30E-03 |
| 258           | 9.99E-03 | 5   | 2.00E-03 |
| 259           | 8.58E-03 | 5   | 1.72E-03 |
| 260           | 7.35E-03 | 5   | 1.47E-03 |
| 261           | 6.11E-03 | 5   | 1.22E-03 |
| 262           | 5.22E-03 | 5   | 1.04E-03 |
| 263           | 4.32E-03 | 5   | 8.64E-04 |
| 264           | 3.97E-03 | 5   | 7.93E-04 |
| 265           | 3.83E-03 | 5   | 7.67E-04 |
| 266           | 3.96E-03 | 5   | 7.92E-04 |
| 267           | 4.55E-03 | 5   | 9.09E-04 |
| 268           | 4.52E-03 | 5   | 9.03E-04 |
| 269           | 5.09E-03 | 5   | 1.02E-03 |
| 270           | 6.29E-03 | 5   | 1.26E-03 |
| 271           | 7.99E-03 | 5   | 1.60E-03 |
| 272           | 9.47E-03 | 5   | 1.89E-03 |
| 273           | 1.05E-02 | 5   | 2.09E-03 |
| 274           | 1.08E-02 | 5   | 2.16E-03 |
| 275           | 1.05E-02 | 5   | 2.10E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 276           | 9.78E-03 | 5   | 1.96E-03 |
| 277           | 8.81E-03 | 5   | 1.76E-03 |
| 278           | 7.80E-03 | 5   | 1.56E-03 |
| 279           | 6.84E-03 | 5   | 1.37E-03 |
| 280           | 5.84E-03 | 5   | 1.17E-03 |
| 281           | 4.93E-03 | 5   | 9.87E-04 |
| 282           | 4.16E-03 | 5   | 8.32E-04 |
| 283           | 3.15E-03 | 5   | 6.30E-04 |
| 284           | 3.02E-03 | 5   | 6.04E-04 |
| 285           | 2.96E-03 | 5   | 5.92E-04 |
| 286           | 3.13E-03 | 5   | 6.27E-04 |
| 287           | 3.58E-03 | 5   | 7.15E-04 |
| 288           | 3.90E-03 | 5   | 7.79E-04 |
| 289           | 4.06E-03 | 5   | 8.11E-04 |
| 290           | 4.90E-03 | 5   | 9.81E-04 |
| 291           | 5.98E-03 | 5   | 1.20E-03 |
| 292           | 7.12E-03 | 5   | 1.42E-03 |
| 293           | 8.04E-03 | 5   | 1.61E-03 |
| 294           | 8.57E-03 | 5   | 1.71E-03 |
| 295           | 8.60E-03 | 5   | 1.72E-03 |
| 296           | 8.30E-03 | 5   | 1.66E-03 |
| 297           | 7.75E-03 | 5   | 1.55E-03 |
| 298           | 7.02E-03 | 5   | 1.40E-03 |
| 299           | 6.27E-03 | 5   | 1.25E-03 |
| 300           | 5.48E-03 | 5   | 1.10E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 4.52E-03 | 5   | 9.04E-04 |
| 302           | 3.98E-03 | 5   | 7.96E-04 |
| 303           | 2.68E-03 | 5   | 5.35E-04 |
| 304           | 2.46E-03 | 5   | 4.91E-04 |
| 305           | 2.43E-03 | 5   | 4.86E-04 |
| 306           | 2.35E-03 | 5   | 4.70E-04 |
| 307           | 2.42E-03 | 5   | 4.83E-04 |
| 308           | 2.67E-03 | 5   | 5.34E-04 |
| 309           | 3.02E-03 | 5   | 6.04E-04 |
| 310           | 3.27E-03 | 5   | 6.54E-04 |
| 311           | 3.86E-03 | 5   | 7.71E-04 |
| 312           | 4.63E-03 | 5   | 9.26E-04 |
| 313           | 5.50E-03 | 5   | 1.10E-03 |
| 314           | 6.29E-03 | 5   | 1.26E-03 |
| 315           | 6.85E-03 | 5   | 1.37E-03 |
| 316           | 7.10E-03 | 5   | 1.42E-03 |
| 317           | 7.03E-03 | 5   | 1.41E-03 |
| 318           | 6.72E-03 | 5   | 1.34E-03 |
| 319           | 6.25E-03 | 5   | 1.25E-03 |
| 320           | 5.65E-03 | 5   | 1.13E-03 |
| 321           | 5.07E-03 | 5   | 1.01E-03 |
| 322           | 4.21E-03 | 5   | 8.41E-04 |
| 323           | 3.77E-03 | 5   | 7.54E-04 |
| 324           | 2.60E-03 | 5   | 5.21E-04 |
| 325           | 2.26E-03 | 5   | 4.53E-04 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 326      | 2.21E-03 | 5   | 4.42E-04 |
| 327      | 2.00E-03 | 5   | 4.00E-04 |
| 328      | 2.00E-03 | 5   | 4.00E-04 |
| 329      | 2.17E-03 | 5   | 4.33E-04 |
| 330      | 2.26E-03 | 5   | 4.52E-04 |
| 331      | 2.45E-03 | 5   | 4.90E-04 |
| 332      | 2.75E-03 | 5   | 5.51E-04 |
| 333      | 3.13E-03 | 5   | 6.25E-04 |
| 334      | 3.68E-03 | 5   | 7.37E-04 |
| 335      | 4.34E-03 | 5   | 8.68E-04 |
| 336      | 5.00E-03 | 5   | 1.00E-03 |
| 337      | 5.52E-03 | 5   | 1.10E-03 |
| 338      | 5.87E-03 | 5   | 1.17E-03 |
| 339      | 5.97E-03 | 5   | 1.19E-03 |
| 340      | 5.84E-03 | 5   | 1.17E-03 |
| 341      | 5.56E-03 | 5   | 1.11E-03 |
| 342      | 4.99E-03 | 5   | 9.98E-04 |
| 343      | 4.59E-03 | 5   | 9.18E-04 |
| 344      | 3.92E-03 | 5   | 7.83E-04 |
| 345      | 3.55E-03 | 5   | 7.09E-04 |
| 346      | 1.98E-03 | 5   | 3.97E-04 |
| 347      | 1.90E-03 | 5   | 3.81E-04 |
| 348      | 1.83E-03 | 5   | 3.65E-04 |
| 349      | 1.73E-03 | 5   | 3.46E-04 |
| 350      | 1.75E-03 | 5   | 3.49E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 351      | 1.86E-03 | 5   | 3.72E-04 |
| 352      | 1.98E-03 | 5   | 3.96E-04 |
| 353      | 2.10E-03 | 5   | 4.19E-04 |
| 354      | 2.30E-03 | 5   | 4.60E-04 |
| 355      | 2.52E-03 | 5   | 5.04E-04 |
| 356      | 3.01E-03 | 5   | 6.02E-04 |
| 357      | 3.51E-03 | 5   | 7.01E-04 |
| 358      | 4.05E-03 | 5   | 8.09E-04 |
| 359      | 4.52E-03 | 5   | 9.04E-04 |
| 360      | 4.88E-03 | 5   | 9.76E-04 |
| 361      | 5.06E-03 | 5   | 1.01E-03 |
| 362      | 5.08E-03 | 5   | 1.02E-03 |
| 363      | 4.92E-03 | 5   | 9.84E-04 |
| 364      | 4.45E-03 | 5   | 8.90E-04 |
| 365      | 4.17E-03 | 5   | 8.34E-04 |
| 366      | 3.63E-03 | 5   | 7.25E-04 |
| 367      | 3.32E-03 | 5   | 6.64E-04 |
| 368      | 1.72E-03 | 5   | 3.44E-04 |
| 369      | 1.69E-03 | 5   | 3.37E-04 |
| 370      | 1.60E-03 | 5   | 3.19E-04 |
| 371      | 1.49E-03 | 5   | 2.98E-04 |
| 372      | 1.55E-03 | 5   | 3.10E-04 |
| 373      | 1.51E-03 | 5   | 3.02E-04 |
| 374      | 1.65E-03 | 5   | 3.30E-04 |
| 375      | 1.71E-03 | 5   | 3.43E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 3C**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 1.87E-03    | 5          | 3.75E-04  |
| 377      | 2.03E-03    | 5          | 4.06E-04  |
| 378      | 2.16E-03    | 5          | 4.32E-04  |
| 379      | 2.49E-03    | 5          | 4.99E-04  |
| 380      | 2.76E-03    | 5          | 5.52E-04  |
| 381      | 3.32E-03    | 5          | 6.64E-04  |
| 382      | 3.74E-03    | 5          | 7.49E-04  |
| 383      | 4.08E-03    | 5          | 8.17E-04  |
| 384      | 4.30E-03    | 5          | 8.61E-04  |
| 385      | 4.38E-03    | 5          | 8.75E-04  |
| 386      | 4.30E-03    | 5          | 8.60E-04  |
| 387      | 3.97E-03    | 5          | 7.94E-04  |
| 388      | 3.76E-03    | 5          | 7.53E-04  |
| 389      | 3.35E-03    | 5          | 6.71E-04  |
| 390      | 3.10E-03    | 5          | 6.19E-04  |

**Risk Calculations - Birth to 2 years**  
**Construction Phase 4**

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |          |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   | Max      |
| 1        | 0.14257 | 0.0136 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-08  | 1.6E-02 | 9.86E-01 |
| 2        | 0.13369 | 0.0136 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-08  | 1.5E-02 |          |
| 3        | 0.12214 | 0.0136 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-08  | 1.4E-02 |          |
| 4        | 0.11318 | 0.0136 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-08  | 1.3E-02 |          |
| 5        | 0.10329 | 0.0136 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-08  | 1.2E-02 |          |
| 6        | 0.0959  | 0.0136 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-08  | 1.1E-02 |          |
| 7        | 0.18122 | 0.0136 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.58E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.1E-08  | 2.1E-02 |          |
| 8        | 0.16599 | 0.0136 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-08  | 1.9E-02 |          |
| 9        | 0.14564 | 0.0136 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-08  | 1.7E-02 |          |
| 10       | 0.13566 | 0.0136 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-08  | 1.6E-02 |          |
| 11       | 0.11905 | 0.0136 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-08  | 1.4E-02 |          |
| 12       | 0.11174 | 0.0136 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-08  | 1.3E-02 |          |
| 13       | 0.10516 | 0.0136 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-08  | 1.2E-02 |          |
| 14       | 0.19891 | 0.0136 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.84E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-08  | 2.3E-02 |          |
| 15       | 0.18538 | 0.0136 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.64E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.1E-08  | 2.1E-02 |          |
| 16       | 0.16647 | 0.0136 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-08  | 1.9E-02 |          |
| 17       | 0.14661 | 0.0136 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-08  | 1.7E-02 |          |
| 18       | 0.13322 | 0.0136 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-08  | 1.5E-02 |          |
| 19       | 0.12149 | 0.0136 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-08  | 1.4E-02 |          |
| 20       | 0.11331 | 0.0136 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-08  | 1.3E-02 |          |
| 21       | 0.43801 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.25E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.0E-08  | 5.0E-02 |          |
| 22       | 0.5016  | 0.0136 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.8E-08  | 5.8E-02 |          |
| 23       | 0.53845 | 0.0136 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-08  | 6.2E-02 |          |
| 24       | 0.55059 | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.3E-08  | 6.3E-02 |          |
| 25       | 0.61064 | 0.0136 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.71E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.0E-08  | 7.0E-02 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 26       | 0.59517 | 0.0136 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.49E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.9E-08  | 6.9E-02 |
| 27       | 0.54814 | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.3E-08  | 6.3E-02 |
| 28       | 0.48705 | 0.0136 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.95E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.6E-08  | 5.6E-02 |
| 29       | 0.41251 | 0.0136 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.88E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.8E-08  | 4.8E-02 |
| 30       | 0.27062 | 0.0136 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-08  | 3.1E-02 |
| 31       | 0.24985 | 0.0136 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-08  | 2.9E-02 |
| 32       | 0.20383 | 0.0136 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-08  | 2.3E-02 |
| 33       | 0.19347 | 0.0136 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-08  | 2.2E-02 |
| 34       | 0.16069 | 0.0136 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-08  | 1.9E-02 |
| 35       | 0.14853 | 0.0136 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-08  | 1.7E-02 |
| 36       | 0.1328  | 0.0136 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-08  | 1.5E-02 |
| 37       | 0.12553 | 0.0136 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-08  | 1.4E-02 |
| 38       | 0.59038 | 0.0136 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-08  | 6.8E-02 |
| 39       | 0.53496 | 0.0136 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-08  | 6.2E-02 |
| 40       | 0.57248 | 0.0136 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.16E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.6E-08  | 6.6E-02 |
| 41       | 0.58509 | 0.0136 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 42       | 0.61645 | 0.0136 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.79E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.1E-08  | 7.1E-02 |
| 43       | 0.63781 | 0.0136 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.10E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.4E-08  | 7.4E-02 |
| 44       | 0.60659 | 0.0136 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.0E-08  | 7.0E-02 |
| 45       | 0.53649 | 0.0136 | 7.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-08  | 6.2E-02 |
| 46       | 0.4596  | 0.0136 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.3E-08  | 5.3E-02 |
| 47       | 0.41777 | 0.0136 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.8E-08  | 4.8E-02 |
| 48       | 0.3294  | 0.0136 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-08  | 3.8E-02 |
| 49       | 0.28523 | 0.0136 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.3E-08  | 3.3E-02 |
| 50       | 0.25804 | 0.0136 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.0E-08  | 3.0E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 51       | 0.23121 | 0.0136 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.7E-08  | 2.7E-02 |
| 52       | 0.18436 | 0.0136 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.1E-08  | 2.1E-02 |
| 53       | 0.16289 | 0.0136 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-08  | 1.9E-02 |
| 54       | 0.14939 | 0.0136 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-08  | 1.7E-02 |
| 55       | 0.15235 | 0.0136 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-08  | 1.8E-02 |
| 56       | 0.55797 | 0.0136 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.4E-08  | 6.4E-02 |
| 57       | 0.56885 | 0.0136 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.6E-08  | 6.6E-02 |
| 58       | 0.58821 | 0.0136 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.39E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-08  | 6.8E-02 |
| 59       | 0.68345 | 0.0136 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.75E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.9E-08  | 7.9E-02 |
| 60       | 0.69254 | 0.0136 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.88E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 8.0E-08  | 8.0E-02 |
| 61       | 0.73699 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.5E-08  | 8.5E-02 |
| 62       | 0.72167 | 0.0136 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.3E-08  | 8.3E-02 |
| 63       | 0.62652 | 0.0136 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.94E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.2E-08  | 7.2E-02 |
| 64       | 0.56525 | 0.0136 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.5E-08  | 6.5E-02 |
| 65       | 0.46307 | 0.0136 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.60E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.3E-08  | 5.3E-02 |
| 66       | 0.46763 | 0.0136 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.4E-08  | 5.4E-02 |
| 67       | 0.32884 | 0.0136 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-08  | 3.8E-02 |
| 68       | 0.29277 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.18E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 69       | 0.27065 | 0.0136 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.86E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-08  | 3.1E-02 |
| 70       | 0.26125 | 0.0136 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.73E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.0E-08  | 3.0E-02 |
| 71       | 0.20425 | 0.0136 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.4E-08  | 2.4E-02 |
| 72       | 0.1906  | 0.0136 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-08  | 2.2E-02 |
| 73       | 0.22012 | 0.0136 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.14E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 74       | 0.62675 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.94E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.2E-08  | 7.2E-02 |
| 75       | 0.65056 | 0.0136 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.5E-08  | 7.5E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 76       | 0.65456 | 0.0136 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.5E-08  | 7.5E-02 |
| 77       | 0.73638 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.5E-08  | 8.5E-02 |
| 78       | 0.8471  | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.8E-08  | 9.8E-02 |
| 79       | 0.88849 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 80       | 0.90496 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 81       | 0.82607 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.5E-08  | 9.5E-02 |
| 82       | 0.70876 | 0.0136 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.2E-08  | 8.2E-02 |
| 83       | 0.59652 | 0.0136 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.51E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.9E-08  | 6.9E-02 |
| 84       | 0.67997 | 0.0136 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.8E-08  | 7.8E-02 |
| 85       | 0.34615 | 0.0136 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.94E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.0E-08  | 4.0E-02 |
| 86       | 0.31525 | 0.0136 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.6E-08  | 3.6E-02 |
| 87       | 0.30195 | 0.0136 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.5E-08  | 3.5E-02 |
| 88       | 0.28593 | 0.0136 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.08E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.3E-08  | 3.3E-02 |
| 89       | 0.2696  | 0.0136 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-08  | 3.1E-02 |
| 90       | 0.25777 | 0.0136 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.0E-08  | 3.0E-02 |
| 91       | 0.7657  | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.8E-08  | 8.8E-02 |
| 92       | 0.78216 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.12E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.0E-08  | 9.0E-02 |
| 93       | 0.89506 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 94       | 0.94714 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 95       | 1.04003 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.48E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 96       | 1.12421 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.60E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 97       | 1.04229 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.49E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 98       | 0.90305 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.29E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 99       | 0.88258 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 100      | 0.44117 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.1E-08  | 5.1E-02 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 101      | 0.36795 | 0.0136 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.25E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.2E-08  | 4.2E-02 |
| 102      | 0.34454 | 0.0136 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.0E-08  | 4.0E-02 |
| 103      | 0.32801 | 0.0136 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.68E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-08  | 3.8E-02 |
| 104      | 0.30575 | 0.0136 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.36E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.5E-08  | 3.5E-02 |
| 105      | 0.27575 | 0.0136 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.2E-08  | 3.2E-02 |
| 106      | 0.80913 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.3E-08  | 9.3E-02 |
| 107      | 0.83667 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.6E-08  | 9.6E-02 |
| 108      | 0.94434 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 109      | 0.98691 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 110      | 1.13153 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.61E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 111      | 1.3058  | 0.0136 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.86E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-07  | 1.5E-01 |
| 112      | 1.41351 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.02E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 113      | 1.42196 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 114      | 1.36036 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.94E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 115      | 0.40925 | 0.0136 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.84E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.7E-08  | 4.7E-02 |
| 116      | 0.39445 | 0.0136 | 5.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.63E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-08  | 4.5E-02 |
| 117      | 0.38313 | 0.0136 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.4E-08  | 4.4E-02 |
| 118      | 0.33537 | 0.0136 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.9E-08  | 3.9E-02 |
| 119      | 0.28473 | 0.0136 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.3E-08  | 3.3E-02 |
| 120      | 0.92954 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 121      | 0.86551 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 122      | 0.98739 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 123      | 1.16933 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 124      | 1.386   | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 125      | 1.58316 | 0.0136 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.26E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 126      | 1.96907 | 0.0136 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.81E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |
| 127      | 2.35262 | 0.0136 | 3.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.36E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.7E-07  | 2.7E-01 |
| 128      | 0.65638 | 0.0136 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.36E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.6E-08  | 7.6E-02 |
| 129      | 0.55176 | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.4E-08  | 6.4E-02 |
| 130      | 0.46604 | 0.0136 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.4E-08  | 5.4E-02 |
| 131      | 0.38018 | 0.0136 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.4E-08  | 4.4E-02 |
| 132      | 0.26126 | 0.0136 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.73E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.0E-08  | 3.0E-02 |
| 133      | 0.85154 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.21E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.8E-08  | 9.8E-02 |
| 134      | 1.07595 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 135      | 1.3543  | 0.0136 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 136      | 1.57548 | 0.0136 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |
| 137      | 1.93144 | 0.0136 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.75E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 138      | 2.71283 | 0.0136 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.87E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-07  | 3.1E-01 |
| 139      | 5.71455 | 0.0136 | 7.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.6E-07  | 6.6E-01 |
| 140      | 0.67028 | 0.0136 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.56E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.7E-08  | 7.7E-02 |
| 141      | 0.52905 | 0.0136 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.55E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.1E-08  | 6.1E-02 |
| 142      | 0.43694 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.23E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.0E-08  | 5.0E-02 |
| 143      | 0.29239 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 144      | 1.25505 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 145      | 1.65273 | 0.0136 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-07  | 1.9E-01 |
| 146      | 1.98418 | 0.0136 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.83E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |
| 147      | 2.64664 | 0.0136 | 3.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.77E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-07  | 3.1E-01 |
| 148      | 3.89148 | 0.0136 | 5.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.55E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-07  | 4.5E-01 |
| 149      | 3.51153 | 0.0136 | 4.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.01E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.0E-07  | 4.0E-01 |
| 150      | 2.03503 | 0.0136 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.90E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 151      | 1.50481 | 0.0136 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 152      | 1.22329 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.74E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 153      | 0.70991 | 0.0136 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.2E-08  | 8.2E-02 |
| 154      | 0.58106 | 0.0136 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 155      | 0.47279 | 0.0136 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.4E-08  | 5.4E-02 |
| 156      | 0.40353 | 0.0136 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.7E-08  | 4.7E-02 |
| 157      | 3.34251 | 0.0136 | 4.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.77E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.9E-07  | 3.9E-01 |
| 158      | 3.76257 | 0.0136 | 5.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.37E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.3E-07  | 4.3E-01 |
| 159      | 4.54045 | 0.0136 | 6.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.48E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 5.2E-07  | 5.2E-01 |
| 160      | 2.52972 | 0.0136 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.61E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-07  | 2.9E-01 |
| 161      | 1.65138 | 0.0136 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-07  | 1.9E-01 |
| 162      | 1.21511 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 163      | 0.58478 | 0.0136 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.34E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 164      | 0.51231 | 0.0136 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.31E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.9E-08  | 5.9E-02 |
| 165      | 0.43002 | 0.0136 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.0E-08  | 5.0E-02 |
| 166      | 5.34751 | 0.0136 | 7.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-07  | 6.2E-01 |
| 167      | 2.93781 | 0.0136 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-07  | 3.4E-01 |
| 168      | 2.01593 | 0.0136 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |
| 169      | 1.42521 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 170      | 1.08462 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 171      | 0.68161 | 0.0136 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.9E-08  | 7.9E-02 |
| 172      | 0.51579 | 0.0136 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.36E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.9E-08  | 5.9E-02 |
| 173      | 0.42776 | 0.0136 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.10E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.9E-08  | 4.9E-02 |
| 174      | 8.55485 | 0.0136 | 1.2E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-04 | 1.1 | 10  | 0.05 | 70 | 1   | 9.9E-07  | 9.9E-01 |
| 175      | 5.40053 | 0.0136 | 7.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.70E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-07  | 6.2E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 176      | 3.33391 | 0.0136 | 4.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.75E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-07  | 3.8E-01 |
| 177      | 2.2635  | 0.0136 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.6E-07  | 2.6E-01 |
| 178      | 1.59628 | 0.0136 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.28E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |
| 179      | 1.15673 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 180      | 0.89425 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.28E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 181      | 0.62061 | 0.0136 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.2E-08  | 7.2E-02 |
| 182      | 0.50601 | 0.0136 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.22E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.8E-08  | 5.8E-02 |
| 183      | 7.15077 | 0.0136 | 9.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-04 | 1.1 | 10  | 0.05 | 70 | 1   | 8.2E-07  | 8.2E-01 |
| 184      | 5.06388 | 0.0136 | 6.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.22E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 5.8E-07  | 5.8E-01 |
| 185      | 3.52857 | 0.0136 | 4.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.1E-07  | 4.1E-01 |
| 186      | 2.41297 | 0.0136 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-07  | 2.8E-01 |
| 187      | 1.76478 | 0.0136 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.52E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.0E-07  | 2.0E-01 |
| 188      | 1.30975 | 0.0136 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-07  | 1.5E-01 |
| 189      | 1.01047 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 190      | 0.80384 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.3E-08  | 9.3E-02 |
| 191      | 8.32687 | 0.0136 | 1.1E-01 | 1090 | 1 | 0.96 | 1E-06  | 1.19E-04 | 1.1 | 10  | 0.05 | 70 | 1   | 9.6E-07  | 9.6E-01 |
| 192      | 6.02533 | 0.0136 | 8.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.59E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.9E-07  | 6.9E-01 |
| 193      | 4.45973 | 0.0136 | 6.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.36E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 5.1E-07  | 5.1E-01 |
| 194      | 3.33262 | 0.0136 | 4.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.75E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-07  | 3.8E-01 |
| 195      | 2.46305 | 0.0136 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.51E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-07  | 2.8E-01 |
| 196      | 1.84191 | 0.0136 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.1E-07  | 2.1E-01 |
| 197      | 1.42077 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 198      | 1.08702 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.55E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 199      | 0.87584 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 200      | 0.72192 | 0.0136 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.3E-08  | 8.3E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 201      | 3.24959 | 0.0136 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.7E-07  | 3.7E-01 |
| 202      | 4.95098 | 0.0136 | 6.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 7.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 5.7E-07  | 5.7E-01 |
| 203      | 5.8668  | 0.0136 | 8.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.37E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-07  | 6.8E-01 |
| 204      | 6.38123 | 0.0136 | 8.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 9.10E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 7.4E-07  | 7.4E-01 |
| 205      | 5.89622 | 0.0136 | 8.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 8.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-07  | 6.8E-01 |
| 206      | 4.88452 | 0.0136 | 6.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.97E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 5.6E-07  | 5.6E-01 |
| 207      | 3.92915 | 0.0136 | 5.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.60E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-07  | 4.5E-01 |
| 208      | 3.09747 | 0.0136 | 4.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.42E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.6E-07  | 3.6E-01 |
| 209      | 2.38952 | 0.0136 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-07  | 2.8E-01 |
| 210      | 1.86639 | 0.0136 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.66E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 211      | 1.46676 | 0.0136 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 212      | 1.14687 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.64E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 213      | 0.93847 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.34E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 214      | 0.74904 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.6E-08  | 8.6E-02 |
| 215      | 0.62804 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.96E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.2E-08  | 7.2E-02 |
| 216      | 1.51358 | 0.0136 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.16E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 217      | 1.75108 | 0.0136 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.50E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.0E-07  | 2.0E-01 |
| 218      | 2.40965 | 0.0136 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.44E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-07  | 2.8E-01 |
| 219      | 3.09162 | 0.0136 | 4.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.41E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.6E-07  | 3.6E-01 |
| 220      | 3.64843 | 0.0136 | 5.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.20E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.2E-07  | 4.2E-01 |
| 221      | 3.87704 | 0.0136 | 5.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.53E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-07  | 4.5E-01 |
| 222      | 3.7245  | 0.0136 | 5.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 4.3E-07  | 4.3E-01 |
| 223      | 3.25928 | 0.0136 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.65E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-07  | 3.8E-01 |
| 224      | 2.72345 | 0.0136 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.88E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-07  | 3.1E-01 |
| 225      | 2.20632 | 0.0136 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.5E-07  | 2.5E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 226      | 1.77318 | 0.0136 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.53E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.0E-07  | 2.0E-01 |
| 227      | 1.44239 | 0.0136 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 228      | 1.16513 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 229      | 0.94394 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 230      | 0.77791 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.0E-08  | 9.0E-02 |
| 231      | 0.62195 | 0.0136 | 8.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.2E-08  | 7.2E-02 |
| 232      | 1.05953 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.51E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 233      | 1.11661 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.59E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 234      | 1.47792 | 0.0136 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 235      | 1.89467 | 0.0136 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.70E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 236      | 2.31891 | 0.0136 | 3.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.7E-07  | 2.7E-01 |
| 237      | 2.71307 | 0.0136 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.87E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-07  | 3.1E-01 |
| 238      | 2.76677 | 0.0136 | 3.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.95E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.2E-07  | 3.2E-01 |
| 239      | 2.56931 | 0.0136 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 3.0E-07  | 3.0E-01 |
| 240      | 2.2825  | 0.0136 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.26E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.6E-07  | 2.6E-01 |
| 241      | 1.93631 | 0.0136 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.76E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 242      | 1.63045 | 0.0136 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-07  | 1.9E-01 |
| 243      | 1.35634 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 244      | 1.13547 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 245      | 0.91896 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 246      | 0.77965 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.11E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.0E-08  | 9.0E-02 |
| 247      | 0.63206 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.01E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.3E-08  | 7.3E-02 |
| 248      | 0.86538 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 249      | 0.85659 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.9E-08  | 9.9E-02 |
| 250      | 1.00342 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.43E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 251      | 1.28849 | 0.0136 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-07  | 1.5E-01 |
| 252      | 1.63636 | 0.0136 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.33E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-07  | 1.9E-01 |
| 253      | 1.90198 | 0.0136 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.71E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 254      | 2.02634 | 0.0136 | 2.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |
| 255      | 2.01179 | 0.0136 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.87E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.3E-07  | 2.3E-01 |
| 256      | 1.88256 | 0.0136 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.68E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 2.2E-07  | 2.2E-01 |
| 257      | 1.68205 | 0.0136 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.9E-07  | 1.9E-01 |
| 258      | 1.46116 | 0.0136 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.08E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.7E-07  | 1.7E-01 |
| 259      | 1.25462 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 260      | 1.07567 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.53E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 261      | 0.89369 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 262      | 0.7632  | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.8E-08  | 8.8E-02 |
| 263      | 0.63167 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.01E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.3E-08  | 7.3E-02 |
| 264      | 0.58009 | 0.0136 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.27E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 265      | 0.56073 | 0.0136 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.00E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.5E-08  | 6.5E-02 |
| 266      | 0.57902 | 0.0136 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 267      | 0.66488 | 0.0136 | 9.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.48E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.7E-08  | 7.7E-02 |
| 268      | 0.66061 | 0.0136 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.42E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.6E-08  | 7.6E-02 |
| 269      | 0.74394 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.6E-08  | 8.6E-02 |
| 270      | 0.92034 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 271      | 1.1693  | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 272      | 1.38588 | 0.0136 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 273      | 1.53028 | 0.0136 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.18E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |
| 274      | 1.58042 | 0.0136 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |
| 275      | 1.5324  | 0.0136 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.19E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.8E-07  | 1.8E-01 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 276      | 1.43091 | 0.0136 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.04E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.6E-07  | 1.6E-01 |
| 277      | 1.28867 | 0.0136 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.5E-07  | 1.5E-01 |
| 278      | 1.14049 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 279      | 1.0007  | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.43E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 280      | 0.85395 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.8E-08  | 9.8E-02 |
| 281      | 0.7216  | 0.0136 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.3E-08  | 8.3E-02 |
| 282      | 0.60823 | 0.0136 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.67E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.0E-08  | 7.0E-02 |
| 283      | 0.46088 | 0.0136 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.3E-08  | 5.3E-02 |
| 284      | 0.44204 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.1E-08  | 5.1E-02 |
| 285      | 0.43325 | 0.0136 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.0E-08  | 5.0E-02 |
| 286      | 0.45841 | 0.0136 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.54E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.3E-08  | 5.3E-02 |
| 287      | 0.52307 | 0.0136 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.0E-08  | 6.0E-02 |
| 288      | 0.56987 | 0.0136 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.6E-08  | 6.6E-02 |
| 289      | 0.59322 | 0.0136 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-08  | 6.8E-02 |
| 290      | 0.71744 | 0.0136 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.3E-08  | 8.3E-02 |
| 291      | 0.87548 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 292      | 1.04219 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.49E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 293      | 1.17605 | 0.0136 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 294      | 1.25313 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 295      | 1.25792 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 296      | 1.21473 | 0.0136 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.73E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.4E-07  | 1.4E-01 |
| 297      | 1.13348 | 0.0136 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.3E-07  | 1.3E-01 |
| 298      | 1.02677 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 299      | 0.91652 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 300      | 0.80208 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.2E-08  | 9.2E-02 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 301      | 0.6609  | 0.0136 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.6E-08  | 7.6E-02 |
| 302      | 0.58197 | 0.0136 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 303      | 0.39159 | 0.0136 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-08  | 4.5E-02 |
| 304      | 0.35914 | 0.0136 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.1E-08  | 4.1E-02 |
| 305      | 0.35529 | 0.0136 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.07E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.1E-08  | 4.1E-02 |
| 306      | 0.34386 | 0.0136 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.90E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.0E-08  | 4.0E-02 |
| 307      | 0.35356 | 0.0136 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.04E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.1E-08  | 4.1E-02 |
| 308      | 0.39073 | 0.0136 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.5E-08  | 4.5E-02 |
| 309      | 0.44141 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.30E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.1E-08  | 5.1E-02 |
| 310      | 0.47846 | 0.0136 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.82E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.5E-08  | 5.5E-02 |
| 311      | 0.56418 | 0.0136 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.05E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.5E-08  | 6.5E-02 |
| 312      | 0.67741 | 0.0136 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.66E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.8E-08  | 7.8E-02 |
| 313      | 0.80426 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.3E-08  | 9.3E-02 |
| 314      | 0.92054 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.31E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 315      | 1.00261 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.43E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 316      | 1.03928 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.48E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 317      | 1.02828 | 0.0136 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.47E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.2E-07  | 1.2E-01 |
| 318      | 0.98264 | 0.0136 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.40E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 319      | 0.91474 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.30E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.1E-07  | 1.1E-01 |
| 320      | 0.82666 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.5E-08  | 9.5E-02 |
| 321      | 0.74121 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.5E-08  | 8.5E-02 |
| 322      | 0.6153  | 0.0136 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.78E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.1E-08  | 7.1E-02 |
| 323      | 0.55156 | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.87E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.4E-08  | 6.4E-02 |
| 324      | 0.38105 | 0.0136 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.4E-08  | 4.4E-02 |
| 325      | 0.33126 | 0.0136 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-08  | 3.8E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 326      | 0.32305 | 0.0136 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.61E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.7E-08  | 3.7E-02 |
| 327      | 0.29252 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 328      | 0.29248 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 329      | 0.317   | 0.0136 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.7E-08  | 3.7E-02 |
| 330      | 0.33066 | 0.0136 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.72E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.8E-08  | 3.8E-02 |
| 331      | 0.35869 | 0.0136 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.12E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.1E-08  | 4.1E-02 |
| 332      | 0.40288 | 0.0136 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.75E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.6E-08  | 4.6E-02 |
| 333      | 0.4573  | 0.0136 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.3E-08  | 5.3E-02 |
| 334      | 0.53898 | 0.0136 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.69E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.2E-08  | 6.2E-02 |
| 335      | 0.63508 | 0.0136 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.06E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.3E-08  | 7.3E-02 |
| 336      | 0.73114 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.4E-08  | 8.4E-02 |
| 337      | 0.80795 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.15E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.3E-08  | 9.3E-02 |
| 338      | 0.85925 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.23E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.9E-08  | 9.9E-02 |
| 339      | 0.87375 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 1.0E-07  | 1.0E-01 |
| 340      | 0.85425 | 0.0136 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.22E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.8E-08  | 9.8E-02 |
| 341      | 0.81269 | 0.0136 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 9.4E-08  | 9.4E-02 |
| 342      | 0.72959 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.4E-08  | 8.4E-02 |
| 343      | 0.67174 | 0.0136 | 9.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.58E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.7E-08  | 7.7E-02 |
| 344      | 0.57305 | 0.0136 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.17E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.6E-08  | 6.6E-02 |
| 345      | 0.51872 | 0.0136 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.40E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.0E-08  | 6.0E-02 |
| 346      | 0.29019 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.14E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.3E-08  | 3.3E-02 |
| 347      | 0.27864 | 0.0136 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.2E-08  | 3.2E-02 |
| 348      | 0.26697 | 0.0136 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-08  | 3.1E-02 |
| 349      | 0.25326 | 0.0136 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.61E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-08  | 2.9E-02 |
| 350      | 0.25562 | 0.0136 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.65E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-08  | 2.9E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 351      | 0.2724  | 0.0136 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.89E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.1E-08  | 3.1E-02 |
| 352      | 0.28943 | 0.0136 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.3E-08  | 3.3E-02 |
| 353      | 0.3067  | 0.0136 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.37E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.5E-08  | 3.5E-02 |
| 354      | 0.33648 | 0.0136 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.80E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.9E-08  | 3.9E-02 |
| 355      | 0.3689  | 0.0136 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.26E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.3E-08  | 4.3E-02 |
| 356      | 0.44002 | 0.0136 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.1E-08  | 5.1E-02 |
| 357      | 0.51306 | 0.0136 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.32E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.9E-08  | 5.9E-02 |
| 358      | 0.59206 | 0.0136 | 8.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.8E-08  | 6.8E-02 |
| 359      | 0.66144 | 0.0136 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.43E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.6E-08  | 7.6E-02 |
| 360      | 0.71417 | 0.0136 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.2E-08  | 8.2E-02 |
| 361      | 0.73968 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.5E-08  | 8.5E-02 |
| 362      | 0.74345 | 0.0136 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.6E-08  | 8.6E-02 |
| 363      | 0.71982 | 0.0136 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.05 | 70 | 1   | 8.3E-08  | 8.3E-02 |
| 364      | 0.65107 | 0.0136 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.29E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.5E-08  | 7.5E-02 |
| 365      | 0.60983 | 0.0136 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.70E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.0E-08  | 7.0E-02 |
| 366      | 0.53056 | 0.0136 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.1E-08  | 6.1E-02 |
| 367      | 0.48574 | 0.0136 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.6E-08  | 5.6E-02 |
| 368      | 0.25159 | 0.0136 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.59E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-08  | 2.9E-02 |
| 369      | 0.24678 | 0.0136 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-08  | 2.8E-02 |
| 370      | 0.23335 | 0.0136 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.33E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.7E-08  | 2.7E-02 |
| 371      | 0.21774 | 0.0136 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.11E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 372      | 0.22662 | 0.0136 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.23E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.6E-08  | 2.6E-02 |
| 373      | 0.22108 | 0.0136 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.5E-08  | 2.5E-02 |
| 374      | 0.24111 | 0.0136 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.44E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.8E-08  | 2.8E-02 |
| 375      | 0.25062 | 0.0136 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.57E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 2.9E-08  | 2.9E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/  |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | Mill)   |
| 376      | 0.27425 | 0.0136 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.91E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.2E-08  | 3.2E-02 |
| 377      | 0.29662 | 0.0136 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.4E-08  | 3.4E-02 |
| 378      | 0.31582 | 0.0136 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 3.6E-08  | 3.6E-02 |
| 379      | 0.36484 | 0.0136 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.20E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.2E-08  | 4.2E-02 |
| 380      | 0.40393 | 0.0136 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.76E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 4.7E-08  | 4.7E-02 |
| 381      | 0.48601 | 0.0136 | 6.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.93E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.6E-08  | 5.6E-02 |
| 382      | 0.5477  | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.81E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.3E-08  | 6.3E-02 |
| 383      | 0.59749 | 0.0136 | 8.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.52E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.9E-08  | 6.9E-02 |
| 384      | 0.62971 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.98E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.3E-08  | 7.3E-02 |
| 385      | 0.64012 | 0.0136 | 8.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.13E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.4E-08  | 7.4E-02 |
| 386      | 0.62903 | 0.0136 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.97E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 7.3E-08  | 7.3E-02 |
| 387      | 0.5807  | 0.0136 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.28E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.7E-08  | 6.7E-02 |
| 388      | 0.55072 | 0.0136 | 7.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.85E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 6.3E-08  | 6.3E-02 |
| 389      | 0.49043 | 0.0136 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.99E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.7E-08  | 5.7E-02 |
| 390      | 0.45288 | 0.0136 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.46E-06 | 1.1 | 10  | 0.05 | 70 | 1   | 5.2E-08  | 5.2E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 1.95E-03 | 5   | 3.89E-04 | 2.33E-02 |
| 2  | 1.82E-03 | 5   | 3.65E-04 |          |
| 3  | 1.67E-03 | 5   | 3.33E-04 |          |
| 4  | 1.54E-03 | 5   | 3.09E-04 |          |
| 5  | 1.41E-03 | 5   | 2.82E-04 |          |
| 6  | 1.31E-03 | 5   | 2.62E-04 |          |
| 7  | 2.47E-03 | 5   | 4.95E-04 |          |
| 8  | 2.27E-03 | 5   | 4.53E-04 |          |
| 9  | 1.99E-03 | 5   | 3.97E-04 |          |
| 10 | 1.85E-03 | 5   | 3.70E-04 |          |
| 11 | 1.62E-03 | 5   | 3.25E-04 |          |
| 12 | 1.52E-03 | 5   | 3.05E-04 |          |
| 13 | 1.43E-03 | 5   | 2.87E-04 |          |
| 14 | 2.71E-03 | 5   | 5.43E-04 |          |
| 15 | 2.53E-03 | 5   | 5.06E-04 |          |
| 16 | 2.27E-03 | 5   | 4.54E-04 |          |
| 17 | 2.00E-03 | 5   | 4.00E-04 |          |
| 18 | 1.82E-03 | 5   | 3.64E-04 |          |
| 19 | 1.66E-03 | 5   | 3.32E-04 |          |
| 20 | 1.55E-03 | 5   | 3.09E-04 |          |
| 21 | 5.98E-03 | 5   | 1.20E-03 |          |
| 22 | 6.84E-03 | 5   | 1.37E-03 |          |
| 23 | 7.35E-03 | 5   | 1.47E-03 |          |
| 24 | 7.51E-03 | 5   | 1.50E-03 |          |
| 25 | 8.33E-03 | 5   | 1.67E-03 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 8.12E-03    | 5          | 1.62E-03  |
| 27       | 7.48E-03    | 5          | 1.50E-03  |
| 28       | 6.65E-03    | 5          | 1.33E-03  |
| 29       | 5.63E-03    | 5          | 1.13E-03  |
| 30       | 3.69E-03    | 5          | 7.39E-04  |
| 31       | 3.41E-03    | 5          | 6.82E-04  |
| 32       | 2.78E-03    | 5          | 5.56E-04  |
| 33       | 2.64E-03    | 5          | 5.28E-04  |
| 34       | 2.19E-03    | 5          | 4.39E-04  |
| 35       | 2.03E-03    | 5          | 4.05E-04  |
| 36       | 1.81E-03    | 5          | 3.62E-04  |
| 37       | 1.71E-03    | 5          | 3.43E-04  |
| 38       | 8.06E-03    | 5          | 1.61E-03  |
| 39       | 7.30E-03    | 5          | 1.46E-03  |
| 40       | 7.81E-03    | 5          | 1.56E-03  |
| 41       | 7.98E-03    | 5          | 1.60E-03  |
| 42       | 8.41E-03    | 5          | 1.68E-03  |
| 43       | 8.70E-03    | 5          | 1.74E-03  |
| 44       | 8.28E-03    | 5          | 1.66E-03  |
| 45       | 7.32E-03    | 5          | 1.46E-03  |
| 46       | 6.27E-03    | 5          | 1.25E-03  |
| 47       | 5.70E-03    | 5          | 1.14E-03  |
| 48       | 4.49E-03    | 5          | 8.99E-04  |
| 49       | 3.89E-03    | 5          | 7.78E-04  |
| 50       | 3.52E-03    | 5          | 7.04E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 3.15E-03    | 5          | 6.31E-04  |
| 52       | 2.52E-03    | 5          | 5.03E-04  |
| 53       | 2.22E-03    | 5          | 4.45E-04  |
| 54       | 2.04E-03    | 5          | 4.08E-04  |
| 55       | 2.08E-03    | 5          | 4.16E-04  |
| 56       | 7.61E-03    | 5          | 1.52E-03  |
| 57       | 7.76E-03    | 5          | 1.55E-03  |
| 58       | 8.03E-03    | 5          | 1.61E-03  |
| 59       | 9.33E-03    | 5          | 1.87E-03  |
| 60       | 9.45E-03    | 5          | 1.89E-03  |
| 61       | 1.01E-02    | 5          | 2.01E-03  |
| 62       | 9.85E-03    | 5          | 1.97E-03  |
| 63       | 8.55E-03    | 5          | 1.71E-03  |
| 64       | 7.71E-03    | 5          | 1.54E-03  |
| 65       | 6.32E-03    | 5          | 1.26E-03  |
| 66       | 6.38E-03    | 5          | 1.28E-03  |
| 67       | 4.49E-03    | 5          | 8.97E-04  |
| 68       | 4.00E-03    | 5          | 7.99E-04  |
| 69       | 3.69E-03    | 5          | 7.39E-04  |
| 70       | 3.56E-03    | 5          | 7.13E-04  |
| 71       | 2.79E-03    | 5          | 5.57E-04  |
| 72       | 2.60E-03    | 5          | 5.20E-04  |
| 73       | 3.00E-03    | 5          | 6.01E-04  |
| 74       | 8.55E-03    | 5          | 1.71E-03  |
| 75       | 8.88E-03    | 5          | 1.78E-03  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 8.93E-03    | 5          | 1.79E-03  |
| 77       | 1.00E-02    | 5          | 2.01E-03  |
| 78       | 1.16E-02    | 5          | 2.31E-03  |
| 79       | 1.21E-02    | 5          | 2.42E-03  |
| 80       | 1.23E-02    | 5          | 2.47E-03  |
| 81       | 1.13E-02    | 5          | 2.25E-03  |
| 82       | 9.67E-03    | 5          | 1.93E-03  |
| 83       | 8.14E-03    | 5          | 1.63E-03  |
| 84       | 9.28E-03    | 5          | 1.86E-03  |
| 85       | 4.72E-03    | 5          | 9.45E-04  |
| 86       | 4.30E-03    | 5          | 8.60E-04  |
| 87       | 4.12E-03    | 5          | 8.24E-04  |
| 88       | 3.90E-03    | 5          | 7.80E-04  |
| 89       | 3.68E-03    | 5          | 7.36E-04  |
| 90       | 3.52E-03    | 5          | 7.03E-04  |
| 91       | 1.04E-02    | 5          | 2.09E-03  |
| 92       | 1.07E-02    | 5          | 2.13E-03  |
| 93       | 1.22E-02    | 5          | 2.44E-03  |
| 94       | 1.29E-02    | 5          | 2.58E-03  |
| 95       | 1.42E-02    | 5          | 2.84E-03  |
| 96       | 1.53E-02    | 5          | 3.07E-03  |
| 97       | 1.42E-02    | 5          | 2.84E-03  |
| 98       | 1.23E-02    | 5          | 2.46E-03  |
| 99       | 1.20E-02    | 5          | 2.41E-03  |
| 100      | 6.02E-03    | 5          | 1.20E-03  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 5.02E-03 | 5   | 1.00E-03 |
| 102           | 4.70E-03 | 5   | 9.40E-04 |
| 103           | 4.48E-03 | 5   | 8.95E-04 |
| 104           | 4.17E-03 | 5   | 8.34E-04 |
| 105           | 3.76E-03 | 5   | 7.53E-04 |
| 106           | 1.10E-02 | 5   | 2.21E-03 |
| 107           | 1.14E-02 | 5   | 2.28E-03 |
| 108           | 1.29E-02 | 5   | 2.58E-03 |
| 109           | 1.35E-02 | 5   | 2.69E-03 |
| 110           | 1.54E-02 | 5   | 3.09E-03 |
| 111           | 1.78E-02 | 5   | 3.56E-03 |
| 112           | 1.93E-02 | 5   | 3.86E-03 |
| 113           | 1.94E-02 | 5   | 3.88E-03 |
| 114           | 1.86E-02 | 5   | 3.71E-03 |
| 115           | 5.58E-03 | 5   | 1.12E-03 |
| 116           | 5.38E-03 | 5   | 1.08E-03 |
| 117           | 5.23E-03 | 5   | 1.05E-03 |
| 118           | 4.58E-03 | 5   | 9.15E-04 |
| 119           | 3.89E-03 | 5   | 7.77E-04 |
| 120           | 1.27E-02 | 5   | 2.54E-03 |
| 121           | 1.18E-02 | 5   | 2.36E-03 |
| 122           | 1.35E-02 | 5   | 2.69E-03 |
| 123           | 1.60E-02 | 5   | 3.19E-03 |
| 124           | 1.89E-02 | 5   | 3.78E-03 |
| 125           | 2.16E-02 | 5   | 4.32E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 126           | 2.69E-02 | 5   | 5.37E-03 |
| 127           | 3.21E-02 | 5   | 6.42E-03 |
| 128           | 8.96E-03 | 5   | 1.79E-03 |
| 129           | 7.53E-03 | 5   | 1.51E-03 |
| 130           | 6.36E-03 | 5   | 1.27E-03 |
| 131           | 5.19E-03 | 5   | 1.04E-03 |
| 132           | 3.57E-03 | 5   | 7.13E-04 |
| 133           | 1.16E-02 | 5   | 2.32E-03 |
| 134           | 1.47E-02 | 5   | 2.94E-03 |
| 135           | 1.85E-02 | 5   | 3.70E-03 |
| 136           | 2.15E-02 | 5   | 4.30E-03 |
| 137           | 2.64E-02 | 5   | 5.27E-03 |
| 138           | 3.70E-02 | 5   | 7.40E-03 |
| 139           | 7.80E-02 | 5   | 1.56E-02 |
| 140           | 9.15E-03 | 5   | 1.83E-03 |
| 141           | 7.22E-03 | 5   | 1.44E-03 |
| 142           | 5.96E-03 | 5   | 1.19E-03 |
| 143           | 3.99E-03 | 5   | 7.98E-04 |
| 144           | 1.71E-02 | 5   | 3.43E-03 |
| 145           | 2.26E-02 | 5   | 4.51E-03 |
| 146           | 2.71E-02 | 5   | 5.42E-03 |
| 147           | 3.61E-02 | 5   | 7.22E-03 |
| 148           | 5.31E-02 | 5   | 1.06E-02 |
| 149           | 4.79E-02 | 5   | 9.58E-03 |
| 150           | 2.78E-02 | 5   | 5.55E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 2.05E-02 | 5   | 4.11E-03 |
| 152           | 1.67E-02 | 5   | 3.34E-03 |
| 153           | 9.69E-03 | 5   | 1.94E-03 |
| 154           | 7.93E-03 | 5   | 1.59E-03 |
| 155           | 6.45E-03 | 5   | 1.29E-03 |
| 156           | 5.51E-03 | 5   | 1.10E-03 |
| 157           | 4.56E-02 | 5   | 9.12E-03 |
| 158           | 5.13E-02 | 5   | 1.03E-02 |
| 159           | 6.20E-02 | 5   | 1.24E-02 |
| 160           | 3.45E-02 | 5   | 6.90E-03 |
| 161           | 2.25E-02 | 5   | 4.51E-03 |
| 162           | 1.66E-02 | 5   | 3.32E-03 |
| 163           | 7.98E-03 | 5   | 1.60E-03 |
| 164           | 6.99E-03 | 5   | 1.40E-03 |
| 165           | 5.87E-03 | 5   | 1.17E-03 |
| 166           | 7.30E-02 | 5   | 1.46E-02 |
| 167           | 4.01E-02 | 5   | 8.02E-03 |
| 168           | 2.75E-02 | 5   | 5.50E-03 |
| 169           | 1.94E-02 | 5   | 3.89E-03 |
| 170           | 1.48E-02 | 5   | 2.96E-03 |
| 171           | 9.30E-03 | 5   | 1.86E-03 |
| 172           | 7.04E-03 | 5   | 1.41E-03 |
| 173           | 5.84E-03 | 5   | 1.17E-03 |
| 174           | 1.17E-01 | 5   | 2.33E-02 |
| 175           | 7.37E-02 | 5   | 1.47E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 4.55E-02 | 5   | 9.10E-03 |
| 177           | 3.09E-02 | 5   | 6.18E-03 |
| 178           | 2.18E-02 | 5   | 4.36E-03 |
| 179           | 1.58E-02 | 5   | 3.16E-03 |
| 180           | 1.22E-02 | 5   | 2.44E-03 |
| 181           | 8.47E-03 | 5   | 1.69E-03 |
| 182           | 6.90E-03 | 5   | 1.38E-03 |
| 183           | 9.76E-02 | 5   | 1.95E-02 |
| 184           | 6.91E-02 | 5   | 1.38E-02 |
| 185           | 4.81E-02 | 5   | 9.63E-03 |
| 186           | 3.29E-02 | 5   | 6.59E-03 |
| 187           | 2.41E-02 | 5   | 4.82E-03 |
| 188           | 1.79E-02 | 5   | 3.57E-03 |
| 189           | 1.38E-02 | 5   | 2.76E-03 |
| 190           | 1.10E-02 | 5   | 2.19E-03 |
| 191           | 1.14E-01 | 5   | 2.27E-02 |
| 192           | 8.22E-02 | 5   | 1.64E-02 |
| 193           | 6.09E-02 | 5   | 1.22E-02 |
| 194           | 4.55E-02 | 5   | 9.10E-03 |
| 195           | 3.36E-02 | 5   | 6.72E-03 |
| 196           | 2.51E-02 | 5   | 5.03E-03 |
| 197           | 1.94E-02 | 5   | 3.88E-03 |
| 198           | 1.48E-02 | 5   | 2.97E-03 |
| 199           | 1.20E-02 | 5   | 2.39E-03 |
| 200           | 9.85E-03 | 5   | 1.97E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 201      | 4.43E-02 | 5   | 8.87E-03 |
| 202      | 6.76E-02 | 5   | 1.35E-02 |
| 203      | 8.01E-02 | 5   | 1.60E-02 |
| 204      | 8.71E-02 | 5   | 1.74E-02 |
| 205      | 8.05E-02 | 5   | 1.61E-02 |
| 206      | 6.67E-02 | 5   | 1.33E-02 |
| 207      | 5.36E-02 | 5   | 1.07E-02 |
| 208      | 4.23E-02 | 5   | 8.45E-03 |
| 209      | 3.26E-02 | 5   | 6.52E-03 |
| 210      | 2.55E-02 | 5   | 5.09E-03 |
| 211      | 2.00E-02 | 5   | 4.00E-03 |
| 212      | 1.56E-02 | 5   | 3.13E-03 |
| 213      | 1.28E-02 | 5   | 2.56E-03 |
| 214      | 1.02E-02 | 5   | 2.04E-03 |
| 215      | 8.57E-03 | 5   | 1.71E-03 |
| 216      | 2.07E-02 | 5   | 4.13E-03 |
| 217      | 2.39E-02 | 5   | 4.78E-03 |
| 218      | 3.29E-02 | 5   | 6.58E-03 |
| 219      | 4.22E-02 | 5   | 8.44E-03 |
| 220      | 4.98E-02 | 5   | 9.96E-03 |
| 221      | 5.29E-02 | 5   | 1.06E-02 |
| 222      | 5.08E-02 | 5   | 1.02E-02 |
| 223      | 4.45E-02 | 5   | 8.89E-03 |
| 224      | 3.72E-02 | 5   | 7.43E-03 |
| 225      | 3.01E-02 | 5   | 6.02E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 226      | 2.42E-02 | 5   | 4.84E-03 |
| 227      | 1.97E-02 | 5   | 3.94E-03 |
| 228      | 1.59E-02 | 5   | 3.18E-03 |
| 229      | 1.29E-02 | 5   | 2.58E-03 |
| 230      | 1.06E-02 | 5   | 2.12E-03 |
| 231      | 8.49E-03 | 5   | 1.70E-03 |
| 232      | 1.45E-02 | 5   | 2.89E-03 |
| 233      | 1.52E-02 | 5   | 3.05E-03 |
| 234      | 2.02E-02 | 5   | 4.03E-03 |
| 235      | 2.59E-02 | 5   | 5.17E-03 |
| 236      | 3.16E-02 | 5   | 6.33E-03 |
| 237      | 3.70E-02 | 5   | 7.40E-03 |
| 238      | 3.78E-02 | 5   | 7.55E-03 |
| 239      | 3.51E-02 | 5   | 7.01E-03 |
| 240      | 3.11E-02 | 5   | 6.23E-03 |
| 241      | 2.64E-02 | 5   | 5.28E-03 |
| 242      | 2.22E-02 | 5   | 4.45E-03 |
| 243      | 1.85E-02 | 5   | 3.70E-03 |
| 244      | 1.55E-02 | 5   | 3.10E-03 |
| 245      | 1.25E-02 | 5   | 2.51E-03 |
| 246      | 1.06E-02 | 5   | 2.13E-03 |
| 247      | 8.62E-03 | 5   | 1.72E-03 |
| 248      | 1.18E-02 | 5   | 2.36E-03 |
| 249      | 1.17E-02 | 5   | 2.34E-03 |
| 250      | 1.37E-02 | 5   | 2.74E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 1.76E-02 | 5   | 3.52E-03 |
| 252           | 2.23E-02 | 5   | 4.47E-03 |
| 253           | 2.60E-02 | 5   | 5.19E-03 |
| 254           | 2.77E-02 | 5   | 5.53E-03 |
| 255           | 2.75E-02 | 5   | 5.49E-03 |
| 256           | 2.57E-02 | 5   | 5.14E-03 |
| 257           | 2.30E-02 | 5   | 4.59E-03 |
| 258           | 1.99E-02 | 5   | 3.99E-03 |
| 259           | 1.71E-02 | 5   | 3.42E-03 |
| 260           | 1.47E-02 | 5   | 2.94E-03 |
| 261           | 1.22E-02 | 5   | 2.44E-03 |
| 262           | 1.04E-02 | 5   | 2.08E-03 |
| 263           | 8.62E-03 | 5   | 1.72E-03 |
| 264           | 7.92E-03 | 5   | 1.58E-03 |
| 265           | 7.65E-03 | 5   | 1.53E-03 |
| 266           | 7.90E-03 | 5   | 1.58E-03 |
| 267           | 9.07E-03 | 5   | 1.81E-03 |
| 268           | 9.01E-03 | 5   | 1.80E-03 |
| 269           | 1.02E-02 | 5   | 2.03E-03 |
| 270           | 1.26E-02 | 5   | 2.51E-03 |
| 271           | 1.60E-02 | 5   | 3.19E-03 |
| 272           | 1.89E-02 | 5   | 3.78E-03 |
| 273           | 2.09E-02 | 5   | 4.18E-03 |
| 274           | 2.16E-02 | 5   | 4.31E-03 |
| 275           | 2.09E-02 | 5   | 4.18E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 276           | 1.95E-02 | 5   | 3.91E-03 |
| 277           | 1.76E-02 | 5   | 3.52E-03 |
| 278           | 1.56E-02 | 5   | 3.11E-03 |
| 279           | 1.37E-02 | 5   | 2.73E-03 |
| 280           | 1.17E-02 | 5   | 2.33E-03 |
| 281           | 9.85E-03 | 5   | 1.97E-03 |
| 282           | 8.30E-03 | 5   | 1.66E-03 |
| 283           | 6.29E-03 | 5   | 1.26E-03 |
| 284           | 6.03E-03 | 5   | 1.21E-03 |
| 285           | 5.91E-03 | 5   | 1.18E-03 |
| 286           | 6.26E-03 | 5   | 1.25E-03 |
| 287           | 7.14E-03 | 5   | 1.43E-03 |
| 288           | 7.78E-03 | 5   | 1.56E-03 |
| 289           | 8.09E-03 | 5   | 1.62E-03 |
| 290           | 9.79E-03 | 5   | 1.96E-03 |
| 291           | 1.19E-02 | 5   | 2.39E-03 |
| 292           | 1.42E-02 | 5   | 2.84E-03 |
| 293           | 1.60E-02 | 5   | 3.21E-03 |
| 294           | 1.71E-02 | 5   | 3.42E-03 |
| 295           | 1.72E-02 | 5   | 3.43E-03 |
| 296           | 1.66E-02 | 5   | 3.32E-03 |
| 297           | 1.55E-02 | 5   | 3.09E-03 |
| 298           | 1.40E-02 | 5   | 2.80E-03 |
| 299           | 1.25E-02 | 5   | 2.50E-03 |
| 300           | 1.09E-02 | 5   | 2.19E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 9.02E-03 | 5   | 1.80E-03 |
| 302           | 7.94E-03 | 5   | 1.59E-03 |
| 303           | 5.34E-03 | 5   | 1.07E-03 |
| 304           | 4.90E-03 | 5   | 9.80E-04 |
| 305           | 4.85E-03 | 5   | 9.70E-04 |
| 306           | 4.69E-03 | 5   | 9.38E-04 |
| 307           | 4.82E-03 | 5   | 9.65E-04 |
| 308           | 5.33E-03 | 5   | 1.07E-03 |
| 309           | 6.02E-03 | 5   | 1.20E-03 |
| 310           | 6.53E-03 | 5   | 1.31E-03 |
| 311           | 7.70E-03 | 5   | 1.54E-03 |
| 312           | 9.24E-03 | 5   | 1.85E-03 |
| 313           | 1.10E-02 | 5   | 2.19E-03 |
| 314           | 1.26E-02 | 5   | 2.51E-03 |
| 315           | 1.37E-02 | 5   | 2.74E-03 |
| 316           | 1.42E-02 | 5   | 2.84E-03 |
| 317           | 1.40E-02 | 5   | 2.81E-03 |
| 318           | 1.34E-02 | 5   | 2.68E-03 |
| 319           | 1.25E-02 | 5   | 2.50E-03 |
| 320           | 1.13E-02 | 5   | 2.26E-03 |
| 321           | 1.01E-02 | 5   | 2.02E-03 |
| 322           | 8.40E-03 | 5   | 1.68E-03 |
| 323           | 7.53E-03 | 5   | 1.51E-03 |
| 324           | 5.20E-03 | 5   | 1.04E-03 |
| 325           | 4.52E-03 | 5   | 9.04E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 326           | 4.41E-03 | 5   | 8.82E-04 |
| 327           | 3.99E-03 | 5   | 7.98E-04 |
| 328           | 3.99E-03 | 5   | 7.98E-04 |
| 329           | 4.33E-03 | 5   | 8.65E-04 |
| 330           | 4.51E-03 | 5   | 9.02E-04 |
| 331           | 4.89E-03 | 5   | 9.79E-04 |
| 332           | 5.50E-03 | 5   | 1.10E-03 |
| 333           | 6.24E-03 | 5   | 1.25E-03 |
| 334           | 7.35E-03 | 5   | 1.47E-03 |
| 335           | 8.67E-03 | 5   | 1.73E-03 |
| 336           | 9.98E-03 | 5   | 2.00E-03 |
| 337           | 1.10E-02 | 5   | 2.20E-03 |
| 338           | 1.17E-02 | 5   | 2.34E-03 |
| 339           | 1.19E-02 | 5   | 2.38E-03 |
| 340           | 1.17E-02 | 5   | 2.33E-03 |
| 341           | 1.11E-02 | 5   | 2.22E-03 |
| 342           | 9.96E-03 | 5   | 1.99E-03 |
| 343           | 9.17E-03 | 5   | 1.83E-03 |
| 344           | 7.82E-03 | 5   | 1.56E-03 |
| 345           | 7.08E-03 | 5   | 1.42E-03 |
| 346           | 3.96E-03 | 5   | 7.92E-04 |
| 347           | 3.80E-03 | 5   | 7.60E-04 |
| 348           | 3.64E-03 | 5   | 7.29E-04 |
| 349           | 3.46E-03 | 5   | 6.91E-04 |
| 350           | 3.49E-03 | 5   | 6.98E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 3.72E-03 | 5   | 7.43E-04 |
| 352           | 3.95E-03 | 5   | 7.90E-04 |
| 353           | 4.19E-03 | 5   | 8.37E-04 |
| 354           | 4.59E-03 | 5   | 9.18E-04 |
| 355           | 5.03E-03 | 5   | 1.01E-03 |
| 356           | 6.00E-03 | 5   | 1.20E-03 |
| 357           | 7.00E-03 | 5   | 1.40E-03 |
| 358           | 8.08E-03 | 5   | 1.62E-03 |
| 359           | 9.03E-03 | 5   | 1.81E-03 |
| 360           | 9.75E-03 | 5   | 1.95E-03 |
| 361           | 1.01E-02 | 5   | 2.02E-03 |
| 362           | 1.01E-02 | 5   | 2.03E-03 |
| 363           | 9.82E-03 | 5   | 1.96E-03 |
| 364           | 8.88E-03 | 5   | 1.78E-03 |
| 365           | 8.32E-03 | 5   | 1.66E-03 |
| 366           | 7.24E-03 | 5   | 1.45E-03 |
| 367           | 6.63E-03 | 5   | 1.33E-03 |
| 368           | 3.43E-03 | 5   | 6.87E-04 |
| 369           | 3.37E-03 | 5   | 6.73E-04 |
| 370           | 3.18E-03 | 5   | 6.37E-04 |
| 371           | 2.97E-03 | 5   | 5.94E-04 |
| 372           | 3.09E-03 | 5   | 6.18E-04 |
| 373           | 3.02E-03 | 5   | 6.03E-04 |
| 374           | 3.29E-03 | 5   | 6.58E-04 |
| 375           | 3.42E-03 | 5   | 6.84E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 4**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 3.74E-03    | 5          | 7.48E-04  |
| 377      | 4.05E-03    | 5          | 8.10E-04  |
| 378      | 4.31E-03    | 5          | 8.62E-04  |
| 379      | 4.98E-03    | 5          | 9.96E-04  |
| 380      | 5.51E-03    | 5          | 1.10E-03  |
| 381      | 6.63E-03    | 5          | 1.33E-03  |
| 382      | 7.47E-03    | 5          | 1.49E-03  |
| 383      | 8.15E-03    | 5          | 1.63E-03  |
| 384      | 8.59E-03    | 5          | 1.72E-03  |
| 385      | 8.73E-03    | 5          | 1.75E-03  |
| 386      | 8.58E-03    | 5          | 1.72E-03  |
| 387      | 7.92E-03    | 5          | 1.58E-03  |
| 388      | 7.51E-03    | 5          | 1.50E-03  |
| 389      | 6.69E-03    | 5          | 1.34E-03  |
| 390      | 6.18E-03    | 5          | 1.24E-03  |

**Risk Calculations - Birth to 2 years**  
**Construction Phase 5**

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor | Consta  |        |         |      |   |      |       |          |     |     |      |    |     |         | RISK (0- (Risk/Mil |          |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|---------|--------------------|----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)      | I)                 | Max      |
| 1        | 0.14257 | 0.0068 | 9.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 1.02E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-08 | 1.9E-02            | 1.15E+00 |
| 2        | 0.13369 | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.55E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-08 | 1.8E-02            |          |
| 3        | 0.12214 | 0.0068 | 8.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.73E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-08 | 1.6E-02            |          |
| 4        | 0.11318 | 0.0068 | 7.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.09E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-08 | 1.5E-02            |          |
| 5        | 0.10329 | 0.0068 | 7.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.38E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-08 | 1.4E-02            |          |
| 6        | 0.0959  | 0.0068 | 6.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 6.85E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-08 | 1.3E-02            |          |
| 7        | 0.18122 | 0.0068 | 1.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.29E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.4E-08 | 2.4E-02            |          |
| 8        | 0.16599 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.19E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-08 | 2.2E-02            |          |
| 9        | 0.14564 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.04E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-08 | 2.0E-02            |          |
| 10       | 0.13566 | 0.0068 | 9.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.69E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-08 | 1.8E-02            |          |
| 11       | 0.11905 | 0.0068 | 8.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.51E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-08 | 1.6E-02            |          |
| 12       | 0.11174 | 0.0068 | 7.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.98E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-08 | 1.5E-02            |          |
| 13       | 0.10516 | 0.0068 | 7.2E-04 | 1090 | 1 | 0.96 | 1E-06 | 7.51E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-08 | 1.4E-02            |          |
| 14       | 0.19891 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.42E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-08 | 2.7E-02            |          |
| 15       | 0.18538 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.32E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.5E-08 | 2.5E-02            |          |
| 16       | 0.16647 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.19E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-08 | 2.2E-02            |          |
| 17       | 0.14661 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.05E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-08 | 2.0E-02            |          |
| 18       | 0.13322 | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.52E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-08 | 1.8E-02            |          |
| 19       | 0.12149 | 0.0068 | 8.3E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.68E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-08 | 1.6E-02            |          |
| 20       | 0.11331 | 0.0068 | 7.7E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.10E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-08 | 1.5E-02            |          |
| 21       | 0.43801 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.13E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.9E-08 | 5.9E-02            |          |
| 22       | 0.5016  | 0.0068 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.58E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.8E-08 | 6.8E-02            |          |
| 23       | 0.53845 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.85E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.3E-08 | 7.3E-02            |          |
| 24       | 0.55059 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.93E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.4E-08 | 7.4E-02            |          |
| 25       | 0.61064 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.36E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.2E-08 | 8.2E-02            |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         | Consta |         |      |   |      |       |          |     |     |      |    |     | RISK (0- (Risk/Mil |         |
|----------|---------|--------|---------|------|---|------|-------|----------|-----|-----|------|----|-----|--------------------|---------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1   | DOSE     | CPF | ASF | ED   | AT | FAH | 2)                 | I)      |
| 26       | 0.59517 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.25E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.0E-08            | 8.0E-02 |
| 27       | 0.54814 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.92E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.4E-08            | 7.4E-02 |
| 28       | 0.48705 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.48E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.6E-08            | 6.6E-02 |
| 29       | 0.41251 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.95E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.6E-08            | 5.6E-02 |
| 30       | 0.27062 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.93E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.6E-08            | 3.6E-02 |
| 31       | 0.24985 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.79E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-08            | 3.4E-02 |
| 32       | 0.20383 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.46E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-08            | 2.7E-02 |
| 33       | 0.19347 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.38E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-08            | 2.6E-02 |
| 34       | 0.16069 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-08            | 2.2E-02 |
| 35       | 0.14853 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.06E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-08            | 2.0E-02 |
| 36       | 0.1328  | 0.0068 | 9.1E-04 | 1090 | 1 | 0.96 | 1E-06 | 9.49E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-08            | 1.8E-02 |
| 37       | 0.12553 | 0.0068 | 8.6E-04 | 1090 | 1 | 0.96 | 1E-06 | 8.97E-07 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-08            | 1.7E-02 |
| 38       | 0.59038 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.22E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.0E-08            | 8.0E-02 |
| 39       | 0.53496 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.82E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.2E-08            | 7.2E-02 |
| 40       | 0.57248 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.7E-08            | 7.7E-02 |
| 41       | 0.58509 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.18E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.9E-08            | 7.9E-02 |
| 42       | 0.61645 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.3E-08            | 8.3E-02 |
| 43       | 0.63781 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.56E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.6E-08            | 8.6E-02 |
| 44       | 0.60659 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 4.33E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.2E-08            | 8.2E-02 |
| 45       | 0.53649 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.83E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.2E-08            | 7.2E-02 |
| 46       | 0.4596  | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06 | 3.28E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.2E-08            | 6.2E-02 |
| 47       | 0.41777 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.99E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.6E-08            | 5.6E-02 |
| 48       | 0.3294  | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-08            | 4.4E-02 |
| 49       | 0.28523 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06 | 2.04E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.8E-08            | 3.8E-02 |
| 50       | 0.25804 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06 | 1.84E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.5E-08            | 3.5E-02 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 51       | 0.23121 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.65E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.1E-08  | 3.1E-02   |
| 52       | 0.18436 | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.5E-08  | 2.5E-02   |
| 53       | 0.16289 | 0.0068 | 1.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-08  | 2.2E-02   |
| 54       | 0.14939 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-08  | 2.0E-02   |
| 55       | 0.15235 | 0.0068 | 1.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-08  | 2.1E-02   |
| 56       | 0.55797 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.99E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.5E-08  | 7.5E-02   |
| 57       | 0.56885 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.06E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.7E-08  | 7.7E-02   |
| 58       | 0.58821 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.20E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.9E-08  | 7.9E-02   |
| 59       | 0.68345 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.88E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.2E-08  | 9.2E-02   |
| 60       | 0.69254 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.95E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.3E-08  | 9.3E-02   |
| 61       | 0.73699 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.27E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.9E-08  | 9.9E-02   |
| 62       | 0.72167 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.7E-08  | 9.7E-02   |
| 63       | 0.62652 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.48E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.4E-08  | 8.4E-02   |
| 64       | 0.56525 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.04E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.6E-08  | 7.6E-02   |
| 65       | 0.46307 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.31E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.2E-08  | 6.2E-02   |
| 66       | 0.46763 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.34E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.3E-08  | 6.3E-02   |
| 67       | 0.32884 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-08  | 4.4E-02   |
| 68       | 0.29277 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 69       | 0.27065 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.6E-08  | 3.6E-02   |
| 70       | 0.26125 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.5E-08  | 3.5E-02   |
| 71       | 0.20425 | 0.0068 | 1.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.46E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.8E-08  | 2.8E-02   |
| 72       | 0.1906  | 0.0068 | 1.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-08  | 2.6E-02   |
| 73       | 0.22012 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.0E-08  | 3.0E-02   |
| 74       | 0.62675 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.48E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.4E-08  | 8.4E-02   |
| 75       | 0.65056 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.65E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.8E-08  | 8.8E-02   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 76       | 0.65456 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.68E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.8E-08  | 8.8E-02   |
| 77       | 0.73638 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.9E-08  | 9.9E-02   |
| 78       | 0.8471  | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.05E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 79       | 0.88849 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 80       | 0.90496 | 0.0068 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.47E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 81       | 0.82607 | 0.0068 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.90E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 82       | 0.70876 | 0.0068 | 4.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.06E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.5E-08  | 9.5E-02   |
| 83       | 0.59652 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.0E-08  | 8.0E-02   |
| 84       | 0.67997 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.86E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.2E-08  | 9.2E-02   |
| 85       | 0.34615 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.47E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.7E-08  | 4.7E-02   |
| 86       | 0.31525 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.25E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.2E-08  | 4.2E-02   |
| 87       | 0.30195 | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.1E-08  | 4.1E-02   |
| 88       | 0.28593 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.04E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 89       | 0.2696  | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.93E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.6E-08  | 3.6E-02   |
| 90       | 0.25777 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.5E-08  | 3.5E-02   |
| 91       | 0.7657  | 0.0068 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.47E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 92       | 0.78216 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.59E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 93       | 0.89506 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 94       | 0.94714 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.77E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 95       | 1.04003 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.43E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 96       | 1.12421 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.03E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 97       | 1.04229 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.45E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 98       | 0.90305 | 0.0068 | 6.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.45E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 99       | 0.88258 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.31E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 100      | 0.44117 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.9E-08  | 5.9E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 101      | 0.36795 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.63E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.0E-08  | 5.0E-02   |
| 102      | 0.34454 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.6E-08  | 4.6E-02   |
| 103      | 0.32801 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.34E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-08  | 4.4E-02   |
| 104      | 0.30575 | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.18E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.1E-08  | 4.1E-02   |
| 105      | 0.27575 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.97E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-08  | 3.7E-02   |
| 106      | 0.80913 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.78E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 107      | 0.83667 | 0.0068 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.98E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 108      | 0.94434 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.75E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 109      | 0.98691 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.05E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 110      | 1.13153 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.08E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 111      | 1.3058  | 0.0068 | 8.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.33E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-07  | 1.8E-01   |
| 112      | 1.41351 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.01E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 113      | 1.42196 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 114      | 1.36036 | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-07  | 1.8E-01   |
| 115      | 0.40925 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.92E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.5E-08  | 5.5E-02   |
| 116      | 0.39445 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.82E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.3E-08  | 5.3E-02   |
| 117      | 0.38313 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.74E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.2E-08  | 5.2E-02   |
| 118      | 0.33537 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-08  | 4.5E-02   |
| 119      | 0.28473 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.03E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.8E-08  | 3.8E-02   |
| 120      | 0.92954 | 0.0068 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.64E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 121      | 0.86551 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 122      | 0.98739 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.06E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 123      | 1.16933 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 124      | 1.386   | 0.0068 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.90E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 125      | 1.58316 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-07  | 2.1E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 126      | 1.96907 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.41E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |
| 127      | 2.35262 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.68E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.2E-07  | 3.2E-01   |
| 128      | 0.65638 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.69E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.8E-08  | 8.8E-02   |
| 129      | 0.55176 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.94E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.4E-08  | 7.4E-02   |
| 130      | 0.46604 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.33E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.3E-08  | 6.3E-02   |
| 131      | 0.38018 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.1E-08  | 5.1E-02   |
| 132      | 0.26126 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.87E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.5E-08  | 3.5E-02   |
| 133      | 0.85154 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.08E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 134      | 1.07595 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.69E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 135      | 1.3543  | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.68E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-07  | 1.8E-01   |
| 136      | 1.57548 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-07  | 2.1E-01   |
| 137      | 1.93144 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-07  | 2.6E-01   |
| 138      | 2.71283 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.94E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-07  | 3.7E-01   |
| 139      | 5.71455 | 0.0068 | 3.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.08E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 7.7E-07  | 7.7E-01   |
| 140      | 0.67028 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.79E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.0E-08  | 9.0E-02   |
| 141      | 0.52905 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.78E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.1E-08  | 7.1E-02   |
| 142      | 0.43694 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.12E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.9E-08  | 5.9E-02   |
| 143      | 0.29239 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 144      | 1.25505 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.97E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 145      | 1.65273 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-07  | 2.2E-01   |
| 146      | 1.98418 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.42E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |
| 147      | 2.64664 | 0.0068 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.89E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.6E-07  | 3.6E-01   |
| 148      | 3.89148 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.78E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 5.2E-07  | 5.2E-01   |
| 149      | 3.51153 | 0.0068 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.51E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.7E-07  | 4.7E-01   |
| 150      | 2.03503 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.45E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 151      | 1.50481 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-07  | 2.0E-01   |
| 152      | 1.22329 | 0.0068 | 8.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.74E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 153      | 0.70991 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.6E-08  | 9.6E-02   |
| 154      | 0.58106 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.8E-08  | 7.8E-02   |
| 155      | 0.47279 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.38E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.4E-08  | 6.4E-02   |
| 156      | 0.40353 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.4E-08  | 5.4E-02   |
| 157      | 3.34251 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.39E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-07  | 4.5E-01   |
| 158      | 3.76257 | 0.0068 | 2.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.69E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 5.1E-07  | 5.1E-01   |
| 159      | 4.54045 | 0.0068 | 3.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.24E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 6.1E-07  | 6.1E-01   |
| 160      | 2.52972 | 0.0068 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-07  | 3.4E-01   |
| 161      | 1.65138 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.18E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-07  | 2.2E-01   |
| 162      | 1.21511 | 0.0068 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.68E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 163      | 0.58478 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.18E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.9E-08  | 7.9E-02   |
| 164      | 0.51231 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.66E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.9E-08  | 6.9E-02   |
| 165      | 0.43002 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.8E-08  | 5.8E-02   |
| 166      | 5.34751 | 0.0068 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.82E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 7.2E-07  | 7.2E-01   |
| 167      | 2.93781 | 0.0068 | 2.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.10E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.0E-07  | 4.0E-01   |
| 168      | 2.01593 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |
| 169      | 1.42521 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 170      | 1.08462 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.75E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 171      | 0.68161 | 0.0068 | 4.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.87E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.2E-08  | 9.2E-02   |
| 172      | 0.51579 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.69E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.9E-08  | 6.9E-02   |
| 173      | 0.42776 | 0.0068 | 2.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.06E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.8E-08  | 5.8E-02   |
| 174      | 8.55485 | 0.0068 | 5.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 6.11E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-06  | 1.2E+00   |
| 175      | 5.40053 | 0.0068 | 3.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.86E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 7.3E-07  | 7.3E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 176      | 3.33391 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.38E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-07  | 4.5E-01   |
| 177      | 2.2635  | 0.0068 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.0E-07  | 3.0E-01   |
| 178      | 1.59628 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.14E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-07  | 2.2E-01   |
| 179      | 1.15673 | 0.0068 | 7.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 180      | 0.89425 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.39E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 181      | 0.62061 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.43E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.4E-08  | 8.4E-02   |
| 182      | 0.50601 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.62E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.8E-08  | 6.8E-02   |
| 183      | 7.15077 | 0.0068 | 4.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.11E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 9.6E-07  | 9.6E-01   |
| 184      | 5.06388 | 0.0068 | 3.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.62E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 6.8E-07  | 6.8E-01   |
| 185      | 3.52857 | 0.0068 | 2.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.52E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.8E-07  | 4.8E-01   |
| 186      | 2.41297 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.3E-07  | 3.3E-01   |
| 187      | 1.76478 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.26E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.4E-07  | 2.4E-01   |
| 188      | 1.30975 | 0.0068 | 9.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.36E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-07  | 1.8E-01   |
| 189      | 1.01047 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.22E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 190      | 0.80384 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.74E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 191      | 8.32687 | 0.0068 | 5.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 5.95E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-06  | 1.1E+00   |
| 192      | 6.02533 | 0.0068 | 4.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.31E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 8.1E-07  | 8.1E-01   |
| 193      | 4.45973 | 0.0068 | 3.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.19E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 6.0E-07  | 6.0E-01   |
| 194      | 3.33262 | 0.0068 | 2.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.38E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-07  | 4.5E-01   |
| 195      | 2.46305 | 0.0068 | 1.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.3E-07  | 3.3E-01   |
| 196      | 1.84191 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.32E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.5E-07  | 2.5E-01   |
| 197      | 1.42077 | 0.0068 | 9.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 198      | 1.08702 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.77E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 199      | 0.87584 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 200      | 0.72192 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.7E-08  | 9.7E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 201      | 3.24959 | 0.0068 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.32E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-07  | 4.4E-01   |
| 202      | 4.95098 | 0.0068 | 3.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.54E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 6.7E-07  | 6.7E-01   |
| 203      | 5.8668  | 0.0068 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.19E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 7.9E-07  | 7.9E-01   |
| 204      | 6.38123 | 0.0068 | 4.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.56E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 8.6E-07  | 8.6E-01   |
| 205      | 5.89622 | 0.0068 | 4.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 4.21E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 7.9E-07  | 7.9E-01   |
| 206      | 4.88452 | 0.0068 | 3.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 3.49E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 6.6E-07  | 6.6E-01   |
| 207      | 3.92915 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.81E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 5.3E-07  | 5.3E-01   |
| 208      | 3.09747 | 0.0068 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.2E-07  | 4.2E-01   |
| 209      | 2.38952 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.71E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.2E-07  | 3.2E-01   |
| 210      | 1.86639 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.33E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.5E-07  | 2.5E-01   |
| 211      | 1.46676 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.05E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-07  | 2.0E-01   |
| 212      | 1.14687 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.19E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 213      | 0.93847 | 0.0068 | 6.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.71E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 214      | 0.74904 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 215      | 0.62804 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.49E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.5E-08  | 8.5E-02   |
| 216      | 1.51358 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.08E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-07  | 2.0E-01   |
| 217      | 1.75108 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.25E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.4E-07  | 2.4E-01   |
| 218      | 2.40965 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.2E-07  | 3.2E-01   |
| 219      | 3.09162 | 0.0068 | 2.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.21E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.2E-07  | 4.2E-01   |
| 220      | 3.64843 | 0.0068 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.61E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.9E-07  | 4.9E-01   |
| 221      | 3.87704 | 0.0068 | 2.7E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.77E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 5.2E-07  | 5.2E-01   |
| 222      | 3.7245  | 0.0068 | 2.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.66E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 5.0E-07  | 5.0E-01   |
| 223      | 3.25928 | 0.0068 | 2.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 2.33E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-07  | 4.4E-01   |
| 224      | 2.72345 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.95E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-07  | 3.7E-01   |
| 225      | 2.20632 | 0.0068 | 1.5E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.0E-07  | 3.0E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 226      | 1.77318 | 0.0068 | 1.2E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.27E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.4E-07  | 2.4E-01   |
| 227      | 1.44239 | 0.0068 | 9.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.03E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 228      | 1.16513 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.32E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 229      | 0.94394 | 0.0068 | 6.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.74E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 230      | 0.77791 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.56E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 231      | 0.62195 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.44E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.4E-08  | 8.4E-02   |
| 232      | 1.05953 | 0.0068 | 7.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 233      | 1.11661 | 0.0068 | 7.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.98E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 234      | 1.47792 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.06E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-07  | 2.0E-01   |
| 235      | 1.89467 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-07  | 2.6E-01   |
| 236      | 2.31891 | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.66E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.1E-07  | 3.1E-01   |
| 237      | 2.71307 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.94E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-07  | 3.7E-01   |
| 238      | 2.76677 | 0.0068 | 1.9E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.98E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-07  | 3.7E-01   |
| 239      | 2.56931 | 0.0068 | 1.8E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.84E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.5E-07  | 3.5E-01   |
| 240      | 2.2825  | 0.0068 | 1.6E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.63E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 3.1E-07  | 3.1E-01   |
| 241      | 1.93631 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.38E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-07  | 2.6E-01   |
| 242      | 1.63045 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.16E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-07  | 2.2E-01   |
| 243      | 1.35634 | 0.0068 | 9.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.69E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.8E-07  | 1.8E-01   |
| 244      | 1.13547 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.11E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 245      | 0.91896 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 246      | 0.77965 | 0.0068 | 5.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 247      | 0.63206 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.52E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.5E-08  | 8.5E-02   |
| 248      | 0.86538 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.18E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 249      | 0.85659 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.12E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 250      | 1.00342 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.17E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 251      | 1.28849 | 0.0068 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.21E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 252      | 1.63636 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.17E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.2E-07  | 2.2E-01   |
| 253      | 1.90198 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.36E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.6E-07  | 2.6E-01   |
| 254      | 2.02634 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.45E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |
| 255      | 2.01179 | 0.0068 | 1.4E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.44E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.7E-07  | 2.7E-01   |
| 256      | 1.88256 | 0.0068 | 1.3E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.35E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.5E-07  | 2.5E-01   |
| 257      | 1.68205 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.20E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.3E-07  | 2.3E-01   |
| 258      | 1.46116 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.04E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.0E-07  | 2.0E-01   |
| 259      | 1.25462 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.96E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 260      | 1.07567 | 0.0068 | 7.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.69E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 261      | 0.89369 | 0.0068 | 6.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.39E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 262      | 0.7632  | 0.0068 | 5.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.45E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 263      | 0.63167 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.51E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.5E-08  | 8.5E-02   |
| 264      | 0.58009 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.14E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.8E-08  | 7.8E-02   |
| 265      | 0.56073 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.01E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.6E-08  | 7.6E-02   |
| 266      | 0.57902 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.14E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.8E-08  | 7.8E-02   |
| 267      | 0.66488 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.75E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.0E-08  | 9.0E-02   |
| 268      | 0.66061 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.9E-08  | 8.9E-02   |
| 269      | 0.74394 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.32E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 270      | 0.92034 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.58E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 271      | 1.1693  | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 272      | 1.38588 | 0.0068 | 9.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.90E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 273      | 1.53028 | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-07  | 2.1E-01   |
| 274      | 1.58042 | 0.0068 | 1.1E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.13E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-07  | 2.1E-01   |
| 275      | 1.5324  | 0.0068 | 1.0E-02 | 1090 | 1 | 0.96 | 1E-06  | 1.09E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 2.1E-07  | 2.1E-01   |



**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 276      | 1.43091 | 0.0068 | 9.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.02E-05 | 1.1 | 10  | 0.12 | 70 | 1   | 1.9E-07  | 1.9E-01   |
| 277      | 1.28867 | 0.0068 | 8.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 9.21E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 278      | 1.14049 | 0.0068 | 7.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 279      | 1.0007  | 0.0068 | 6.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 280      | 0.85395 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.10E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 281      | 0.7216  | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.7E-08  | 9.7E-02   |
| 282      | 0.60823 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.2E-08  | 8.2E-02   |
| 283      | 0.46088 | 0.0068 | 3.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.29E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.2E-08  | 6.2E-02   |
| 284      | 0.44204 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.0E-08  | 6.0E-02   |
| 285      | 0.43325 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.10E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.8E-08  | 5.8E-02   |
| 286      | 0.45841 | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.28E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.2E-08  | 6.2E-02   |
| 287      | 0.52307 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.74E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.0E-08  | 7.0E-02   |
| 288      | 0.56987 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.7E-08  | 7.7E-02   |
| 289      | 0.59322 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.24E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.0E-08  | 8.0E-02   |
| 290      | 0.71744 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.13E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.7E-08  | 9.7E-02   |
| 291      | 0.87548 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 292      | 1.04219 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.45E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 293      | 1.17605 | 0.0068 | 8.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 294      | 1.25313 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.95E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 295      | 1.25792 | 0.0068 | 8.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.99E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.7E-07  | 1.7E-01   |
| 296      | 1.21473 | 0.0068 | 8.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.68E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.6E-07  | 1.6E-01   |
| 297      | 1.13348 | 0.0068 | 7.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 8.10E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.5E-07  | 1.5E-01   |
| 298      | 1.02677 | 0.0068 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.34E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 299      | 0.91652 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.55E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 300      | 0.80208 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.73E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 301      | 0.6609  | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.9E-08  | 8.9E-02   |
| 302      | 0.58197 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.8E-08  | 7.8E-02   |
| 303      | 0.39159 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.80E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.3E-08  | 5.3E-02   |
| 304      | 0.35914 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.8E-08  | 4.8E-02   |
| 305      | 0.35529 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.54E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.8E-08  | 4.8E-02   |
| 306      | 0.34386 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.46E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.6E-08  | 4.6E-02   |
| 307      | 0.35356 | 0.0068 | 2.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.53E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.8E-08  | 4.8E-02   |
| 308      | 0.39073 | 0.0068 | 2.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.79E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.3E-08  | 5.3E-02   |
| 309      | 0.44141 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.9E-08  | 5.9E-02   |
| 310      | 0.47846 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.42E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.4E-08  | 6.4E-02   |
| 311      | 0.56418 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.03E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.6E-08  | 7.6E-02   |
| 312      | 0.67741 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.84E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.1E-08  | 9.1E-02   |
| 313      | 0.80426 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.75E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 314      | 0.92054 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.58E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 315      | 1.00261 | 0.0068 | 6.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.16E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 316      | 1.03928 | 0.0068 | 7.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.43E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 317      | 1.02828 | 0.0068 | 7.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.35E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.4E-07  | 1.4E-01   |
| 318      | 0.98264 | 0.0068 | 6.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 7.02E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.3E-07  | 1.3E-01   |
| 319      | 0.91474 | 0.0068 | 6.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.54E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 320      | 0.82666 | 0.0068 | 5.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.91E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 321      | 0.74121 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.30E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 322      | 0.6153  | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.3E-08  | 8.3E-02   |
| 323      | 0.55156 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.94E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.4E-08  | 7.4E-02   |
| 324      | 0.38105 | 0.0068 | 2.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.1E-08  | 5.1E-02   |
| 325      | 0.33126 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.37E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-08  | 4.5E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 326      | 0.32305 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.31E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.4E-08  | 4.4E-02   |
| 327      | 0.29252 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 328      | 0.29248 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 329      | 0.317   | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.27E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.3E-08  | 4.3E-02   |
| 330      | 0.33066 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.36E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-08  | 4.5E-02   |
| 331      | 0.35869 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.56E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.8E-08  | 4.8E-02   |
| 332      | 0.40288 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.88E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.4E-08  | 5.4E-02   |
| 333      | 0.4573  | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.27E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.2E-08  | 6.2E-02   |
| 334      | 0.53898 | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.85E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.3E-08  | 7.3E-02   |
| 335      | 0.63508 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.54E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.6E-08  | 8.6E-02   |
| 336      | 0.73114 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.22E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.9E-08  | 9.9E-02   |
| 337      | 0.80795 | 0.0068 | 5.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.77E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 338      | 0.85925 | 0.0068 | 5.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.14E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 339      | 0.87375 | 0.0068 | 6.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.24E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 340      | 0.85425 | 0.0068 | 5.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 6.10E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.2E-07  | 1.2E-01   |
| 341      | 0.81269 | 0.0068 | 5.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.81E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.1E-07  | 1.1E-01   |
| 342      | 0.72959 | 0.0068 | 5.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.21E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.8E-08  | 9.8E-02   |
| 343      | 0.67174 | 0.0068 | 4.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.80E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.1E-08  | 9.1E-02   |
| 344      | 0.57305 | 0.0068 | 3.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.09E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.7E-08  | 7.7E-02   |
| 345      | 0.51872 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.71E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.0E-08  | 7.0E-02   |
| 346      | 0.29019 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 347      | 0.27864 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.99E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.8E-08  | 3.8E-02   |
| 348      | 0.26697 | 0.0068 | 1.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.91E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.6E-08  | 3.6E-02   |
| 349      | 0.25326 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.81E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-08  | 3.4E-02   |
| 350      | 0.25562 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.83E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-08  | 3.4E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 351      | 0.2724  | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.95E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-08  | 3.7E-02   |
| 352      | 0.28943 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.07E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.9E-08  | 3.9E-02   |
| 353      | 0.3067  | 0.0068 | 2.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.19E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.1E-08  | 4.1E-02   |
| 354      | 0.33648 | 0.0068 | 2.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.40E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.5E-08  | 4.5E-02   |
| 355      | 0.3689  | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.64E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.0E-08  | 5.0E-02   |
| 356      | 0.44002 | 0.0068 | 3.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.14E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.9E-08  | 5.9E-02   |
| 357      | 0.51306 | 0.0068 | 3.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.67E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.9E-08  | 6.9E-02   |
| 358      | 0.59206 | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.23E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.0E-08  | 8.0E-02   |
| 359      | 0.66144 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.73E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.9E-08  | 8.9E-02   |
| 360      | 0.71417 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.10E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.6E-08  | 9.6E-02   |
| 361      | 0.73968 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.29E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 362      | 0.74345 | 0.0068 | 5.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.31E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 1.0E-07  | 1.0E-01   |
| 363      | 0.71982 | 0.0068 | 4.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 5.14E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 9.7E-08  | 9.7E-02   |
| 364      | 0.65107 | 0.0068 | 4.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.65E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.8E-08  | 8.8E-02   |
| 365      | 0.60983 | 0.0068 | 4.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.36E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.2E-08  | 8.2E-02   |
| 366      | 0.53056 | 0.0068 | 3.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.79E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.1E-08  | 7.1E-02   |
| 367      | 0.48574 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.47E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.5E-08  | 6.5E-02   |
| 368      | 0.25159 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.80E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-08  | 3.4E-02   |
| 369      | 0.24678 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.76E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.3E-08  | 3.3E-02   |
| 370      | 0.23335 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.67E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.1E-08  | 3.1E-02   |
| 371      | 0.21774 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.56E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 2.9E-08  | 2.9E-02   |
| 372      | 0.22662 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.62E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.1E-08  | 3.1E-02   |
| 373      | 0.22108 | 0.0068 | 1.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.58E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.0E-08  | 3.0E-02   |
| 374      | 0.24111 | 0.0068 | 1.6E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.72E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.2E-08  | 3.2E-02   |
| 375      | 0.25062 | 0.0068 | 1.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.79E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.4E-08  | 3.4E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Risk from Birth to 2 Years*

| Receptor |         |        |         |      |   |      | Consta |          |     |     |      |    |     | RISK (0- | (Risk/Mil |
|----------|---------|--------|---------|------|---|------|--------|----------|-----|-----|------|----|-----|----------|-----------|
| #        | Conc    | g/sec  | Cair    | DBR  | A | EF   | nt1    | DOSE     | CPF | ASF | ED   | AT | FAH | 2)       | I)        |
| 376      | 0.27425 | 0.0068 | 1.9E-03 | 1090 | 1 | 0.96 | 1E-06  | 1.96E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 3.7E-08  | 3.7E-02   |
| 377      | 0.29662 | 0.0068 | 2.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.12E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.0E-08  | 4.0E-02   |
| 378      | 0.31582 | 0.0068 | 2.2E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.26E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.3E-08  | 4.3E-02   |
| 379      | 0.36484 | 0.0068 | 2.5E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.61E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 4.9E-08  | 4.9E-02   |
| 380      | 0.40393 | 0.0068 | 2.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 2.89E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 5.4E-08  | 5.4E-02   |
| 381      | 0.48601 | 0.0068 | 3.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.47E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.5E-08  | 6.5E-02   |
| 382      | 0.5477  | 0.0068 | 3.7E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.91E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.4E-08  | 7.4E-02   |
| 383      | 0.59749 | 0.0068 | 4.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.27E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.1E-08  | 8.1E-02   |
| 384      | 0.62971 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.50E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.5E-08  | 8.5E-02   |
| 385      | 0.64012 | 0.0068 | 4.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.57E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.6E-08  | 8.6E-02   |
| 386      | 0.62903 | 0.0068 | 4.3E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.49E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 8.5E-08  | 8.5E-02   |
| 387      | 0.5807  | 0.0068 | 4.0E-03 | 1090 | 1 | 0.96 | 1E-06  | 4.15E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.8E-08  | 7.8E-02   |
| 388      | 0.55072 | 0.0068 | 3.8E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.93E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 7.4E-08  | 7.4E-02   |
| 389      | 0.49043 | 0.0068 | 3.4E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.50E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.6E-08  | 6.6E-02   |
| 390      | 0.45288 | 0.0068 | 3.1E-03 | 1090 | 1 | 0.96 | 1E-06  | 3.24E-06 | 1.1 | 10  | 0.12 | 70 | 1   | 6.1E-08  | 6.1E-02   |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

**Receptor**

| #  | Conc     | REL | HI       | Max      |
|----|----------|-----|----------|----------|
| 1  | 9.75E-04 | 5   | 1.95E-04 | 1.17E-02 |
| 2  | 9.14E-04 | 5   | 1.83E-04 |          |
| 3  | 8.35E-04 | 5   | 1.67E-04 |          |
| 4  | 7.74E-04 | 5   | 1.55E-04 |          |
| 5  | 7.06E-04 | 5   | 1.41E-04 |          |
| 6  | 6.56E-04 | 5   | 1.31E-04 |          |
| 7  | 1.24E-03 | 5   | 2.48E-04 |          |
| 8  | 1.13E-03 | 5   | 2.27E-04 |          |
| 9  | 9.96E-04 | 5   | 1.99E-04 |          |
| 10 | 9.27E-04 | 5   | 1.85E-04 |          |
| 11 | 8.14E-04 | 5   | 1.63E-04 |          |
| 12 | 7.64E-04 | 5   | 1.53E-04 |          |
| 13 | 7.19E-04 | 5   | 1.44E-04 |          |
| 14 | 1.36E-03 | 5   | 2.72E-04 |          |
| 15 | 1.27E-03 | 5   | 2.53E-04 |          |
| 16 | 1.14E-03 | 5   | 2.28E-04 |          |
| 17 | 1.00E-03 | 5   | 2.00E-04 |          |
| 18 | 9.11E-04 | 5   | 1.82E-04 |          |
| 19 | 8.31E-04 | 5   | 1.66E-04 |          |
| 20 | 7.75E-04 | 5   | 1.55E-04 |          |
| 21 | 2.99E-03 | 5   | 5.99E-04 |          |
| 22 | 3.43E-03 | 5   | 6.86E-04 |          |
| 23 | 3.68E-03 | 5   | 7.36E-04 |          |
| 24 | 3.76E-03 | 5   | 7.53E-04 |          |
| 25 | 4.17E-03 | 5   | 8.35E-04 |          |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 26       | 4.07E-03    | 5          | 8.14E-04  |
| 27       | 3.75E-03    | 5          | 7.49E-04  |
| 28       | 3.33E-03    | 5          | 6.66E-04  |
| 29       | 2.82E-03    | 5          | 5.64E-04  |
| 30       | 1.85E-03    | 5          | 3.70E-04  |
| 31       | 1.71E-03    | 5          | 3.42E-04  |
| 32       | 1.39E-03    | 5          | 2.79E-04  |
| 33       | 1.32E-03    | 5          | 2.65E-04  |
| 34       | 1.10E-03    | 5          | 2.20E-04  |
| 35       | 1.02E-03    | 5          | 2.03E-04  |
| 36       | 9.08E-04    | 5          | 1.82E-04  |
| 37       | 8.58E-04    | 5          | 1.72E-04  |
| 38       | 4.04E-03    | 5          | 8.07E-04  |
| 39       | 3.66E-03    | 5          | 7.31E-04  |
| 40       | 3.91E-03    | 5          | 7.83E-04  |
| 41       | 4.00E-03    | 5          | 8.00E-04  |
| 42       | 4.21E-03    | 5          | 8.43E-04  |
| 43       | 4.36E-03    | 5          | 8.72E-04  |
| 44       | 4.15E-03    | 5          | 8.29E-04  |
| 45       | 3.67E-03    | 5          | 7.33E-04  |
| 46       | 3.14E-03    | 5          | 6.28E-04  |
| 47       | 2.86E-03    | 5          | 5.71E-04  |
| 48       | 2.25E-03    | 5          | 4.50E-04  |
| 49       | 1.95E-03    | 5          | 3.90E-04  |
| 50       | 1.76E-03    | 5          | 3.53E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 51       | 1.58E-03    | 5          | 3.16E-04  |
| 52       | 1.26E-03    | 5          | 2.52E-04  |
| 53       | 1.11E-03    | 5          | 2.23E-04  |
| 54       | 1.02E-03    | 5          | 2.04E-04  |
| 55       | 1.04E-03    | 5          | 2.08E-04  |
| 56       | 3.81E-03    | 5          | 7.63E-04  |
| 57       | 3.89E-03    | 5          | 7.78E-04  |
| 58       | 4.02E-03    | 5          | 8.04E-04  |
| 59       | 4.67E-03    | 5          | 9.34E-04  |
| 60       | 4.73E-03    | 5          | 9.47E-04  |
| 61       | 5.04E-03    | 5          | 1.01E-03  |
| 62       | 4.93E-03    | 5          | 9.87E-04  |
| 63       | 4.28E-03    | 5          | 8.57E-04  |
| 64       | 3.86E-03    | 5          | 7.73E-04  |
| 65       | 3.17E-03    | 5          | 6.33E-04  |
| 66       | 3.20E-03    | 5          | 6.39E-04  |
| 67       | 2.25E-03    | 5          | 4.50E-04  |
| 68       | 2.00E-03    | 5          | 4.00E-04  |
| 69       | 1.85E-03    | 5          | 3.70E-04  |
| 70       | 1.79E-03    | 5          | 3.57E-04  |
| 71       | 1.40E-03    | 5          | 2.79E-04  |
| 72       | 1.30E-03    | 5          | 2.61E-04  |
| 73       | 1.50E-03    | 5          | 3.01E-04  |
| 74       | 4.28E-03    | 5          | 8.57E-04  |
| 75       | 4.45E-03    | 5          | 8.89E-04  |



**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 76       | 4.47E-03    | 5          | 8.95E-04  |
| 77       | 5.03E-03    | 5          | 1.01E-03  |
| 78       | 5.79E-03    | 5          | 1.16E-03  |
| 79       | 6.07E-03    | 5          | 1.21E-03  |
| 80       | 6.19E-03    | 5          | 1.24E-03  |
| 81       | 5.65E-03    | 5          | 1.13E-03  |
| 82       | 4.85E-03    | 5          | 9.69E-04  |
| 83       | 4.08E-03    | 5          | 8.16E-04  |
| 84       | 4.65E-03    | 5          | 9.30E-04  |
| 85       | 2.37E-03    | 5          | 4.73E-04  |
| 86       | 2.16E-03    | 5          | 4.31E-04  |
| 87       | 2.06E-03    | 5          | 4.13E-04  |
| 88       | 1.95E-03    | 5          | 3.91E-04  |
| 89       | 1.84E-03    | 5          | 3.69E-04  |
| 90       | 1.76E-03    | 5          | 3.52E-04  |
| 91       | 5.23E-03    | 5          | 1.05E-03  |
| 92       | 5.35E-03    | 5          | 1.07E-03  |
| 93       | 6.12E-03    | 5          | 1.22E-03  |
| 94       | 6.47E-03    | 5          | 1.29E-03  |
| 95       | 7.11E-03    | 5          | 1.42E-03  |
| 96       | 7.69E-03    | 5          | 1.54E-03  |
| 97       | 7.13E-03    | 5          | 1.43E-03  |
| 98       | 6.17E-03    | 5          | 1.23E-03  |
| 99       | 6.03E-03    | 5          | 1.21E-03  |
| 100      | 3.02E-03    | 5          | 6.03E-04  |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 101           | 2.52E-03 | 5   | 5.03E-04 |
| 102           | 2.36E-03 | 5   | 4.71E-04 |
| 103           | 2.24E-03 | 5   | 4.48E-04 |
| 104           | 2.09E-03 | 5   | 4.18E-04 |
| 105           | 1.89E-03 | 5   | 3.77E-04 |
| 106           | 5.53E-03 | 5   | 1.11E-03 |
| 107           | 5.72E-03 | 5   | 1.14E-03 |
| 108           | 6.46E-03 | 5   | 1.29E-03 |
| 109           | 6.75E-03 | 5   | 1.35E-03 |
| 110           | 7.74E-03 | 5   | 1.55E-03 |
| 111           | 8.93E-03 | 5   | 1.79E-03 |
| 112           | 9.66E-03 | 5   | 1.93E-03 |
| 113           | 9.72E-03 | 5   | 1.94E-03 |
| 114           | 9.30E-03 | 5   | 1.86E-03 |
| 115           | 2.80E-03 | 5   | 5.60E-04 |
| 116           | 2.70E-03 | 5   | 5.39E-04 |
| 117           | 2.62E-03 | 5   | 5.24E-04 |
| 118           | 2.29E-03 | 5   | 4.59E-04 |
| 119           | 1.95E-03 | 5   | 3.89E-04 |
| 120           | 6.35E-03 | 5   | 1.27E-03 |
| 121           | 5.92E-03 | 5   | 1.18E-03 |
| 122           | 6.75E-03 | 5   | 1.35E-03 |
| 123           | 7.99E-03 | 5   | 1.60E-03 |
| 124           | 9.47E-03 | 5   | 1.89E-03 |
| 125           | 1.08E-02 | 5   | 2.16E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 126           | 1.35E-02 | 5   | 2.69E-03 |
| 127           | 1.61E-02 | 5   | 3.22E-03 |
| 128           | 4.49E-03 | 5   | 8.97E-04 |
| 129           | 3.77E-03 | 5   | 7.54E-04 |
| 130           | 3.19E-03 | 5   | 6.37E-04 |
| 131           | 2.60E-03 | 5   | 5.20E-04 |
| 132           | 1.79E-03 | 5   | 3.57E-04 |
| 133           | 5.82E-03 | 5   | 1.16E-03 |
| 134           | 7.36E-03 | 5   | 1.47E-03 |
| 135           | 9.26E-03 | 5   | 1.85E-03 |
| 136           | 1.08E-02 | 5   | 2.15E-03 |
| 137           | 1.32E-02 | 5   | 2.64E-03 |
| 138           | 1.85E-02 | 5   | 3.71E-03 |
| 139           | 3.91E-02 | 5   | 7.81E-03 |
| 140           | 4.58E-03 | 5   | 9.16E-04 |
| 141           | 3.62E-03 | 5   | 7.23E-04 |
| 142           | 2.99E-03 | 5   | 5.97E-04 |
| 143           | 2.00E-03 | 5   | 4.00E-04 |
| 144           | 8.58E-03 | 5   | 1.72E-03 |
| 145           | 1.13E-02 | 5   | 2.26E-03 |
| 146           | 1.36E-02 | 5   | 2.71E-03 |
| 147           | 1.81E-02 | 5   | 3.62E-03 |
| 148           | 2.66E-02 | 5   | 5.32E-03 |
| 149           | 2.40E-02 | 5   | 4.80E-03 |
| 150           | 1.39E-02 | 5   | 2.78E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 151           | 1.03E-02 | 5   | 2.06E-03 |
| 152           | 8.36E-03 | 5   | 1.67E-03 |
| 153           | 4.85E-03 | 5   | 9.71E-04 |
| 154           | 3.97E-03 | 5   | 7.94E-04 |
| 155           | 3.23E-03 | 5   | 6.46E-04 |
| 156           | 2.76E-03 | 5   | 5.52E-04 |
| 157           | 2.28E-02 | 5   | 4.57E-03 |
| 158           | 2.57E-02 | 5   | 5.14E-03 |
| 159           | 3.10E-02 | 5   | 6.21E-03 |
| 160           | 1.73E-02 | 5   | 3.46E-03 |
| 161           | 1.13E-02 | 5   | 2.26E-03 |
| 162           | 8.31E-03 | 5   | 1.66E-03 |
| 163           | 4.00E-03 | 5   | 8.00E-04 |
| 164           | 3.50E-03 | 5   | 7.00E-04 |
| 165           | 2.94E-03 | 5   | 5.88E-04 |
| 166           | 3.66E-02 | 5   | 7.31E-03 |
| 167           | 2.01E-02 | 5   | 4.02E-03 |
| 168           | 1.38E-02 | 5   | 2.76E-03 |
| 169           | 9.74E-03 | 5   | 1.95E-03 |
| 170           | 7.41E-03 | 5   | 1.48E-03 |
| 171           | 4.66E-03 | 5   | 9.32E-04 |
| 172           | 3.53E-03 | 5   | 7.05E-04 |
| 173           | 2.92E-03 | 5   | 5.85E-04 |
| 174           | 5.85E-02 | 5   | 1.17E-02 |
| 175           | 3.69E-02 | 5   | 7.38E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 176           | 2.28E-02 | 5   | 4.56E-03 |
| 177           | 1.55E-02 | 5   | 3.09E-03 |
| 178           | 1.09E-02 | 5   | 2.18E-03 |
| 179           | 7.91E-03 | 5   | 1.58E-03 |
| 180           | 6.11E-03 | 5   | 1.22E-03 |
| 181           | 4.24E-03 | 5   | 8.49E-04 |
| 182           | 3.46E-03 | 5   | 6.92E-04 |
| 183           | 4.89E-02 | 5   | 9.78E-03 |
| 184           | 3.46E-02 | 5   | 6.92E-03 |
| 185           | 2.41E-02 | 5   | 4.82E-03 |
| 186           | 1.65E-02 | 5   | 3.30E-03 |
| 187           | 1.21E-02 | 5   | 2.41E-03 |
| 188           | 8.95E-03 | 5   | 1.79E-03 |
| 189           | 6.91E-03 | 5   | 1.38E-03 |
| 190           | 5.50E-03 | 5   | 1.10E-03 |
| 191           | 5.69E-02 | 5   | 1.14E-02 |
| 192           | 4.12E-02 | 5   | 8.24E-03 |
| 193           | 3.05E-02 | 5   | 6.10E-03 |
| 194           | 2.28E-02 | 5   | 4.56E-03 |
| 195           | 1.68E-02 | 5   | 3.37E-03 |
| 196           | 1.26E-02 | 5   | 2.52E-03 |
| 197           | 9.71E-03 | 5   | 1.94E-03 |
| 198           | 7.43E-03 | 5   | 1.49E-03 |
| 199           | 5.99E-03 | 5   | 1.20E-03 |
| 200           | 4.94E-03 | 5   | 9.87E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 201           | 2.22E-02 | 5   | 4.44E-03 |
| 202           | 3.38E-02 | 5   | 6.77E-03 |
| 203           | 4.01E-02 | 5   | 8.02E-03 |
| 204           | 4.36E-02 | 5   | 8.72E-03 |
| 205           | 4.03E-02 | 5   | 8.06E-03 |
| 206           | 3.34E-02 | 5   | 6.68E-03 |
| 207           | 2.69E-02 | 5   | 5.37E-03 |
| 208           | 2.12E-02 | 5   | 4.23E-03 |
| 209           | 1.63E-02 | 5   | 3.27E-03 |
| 210           | 1.28E-02 | 5   | 2.55E-03 |
| 211           | 1.00E-02 | 5   | 2.01E-03 |
| 212           | 7.84E-03 | 5   | 1.57E-03 |
| 213           | 6.42E-03 | 5   | 1.28E-03 |
| 214           | 5.12E-03 | 5   | 1.02E-03 |
| 215           | 4.29E-03 | 5   | 8.59E-04 |
| 216           | 1.03E-02 | 5   | 2.07E-03 |
| 217           | 1.20E-02 | 5   | 2.39E-03 |
| 218           | 1.65E-02 | 5   | 3.29E-03 |
| 219           | 2.11E-02 | 5   | 4.23E-03 |
| 220           | 2.49E-02 | 5   | 4.99E-03 |
| 221           | 2.65E-02 | 5   | 5.30E-03 |
| 222           | 2.55E-02 | 5   | 5.09E-03 |
| 223           | 2.23E-02 | 5   | 4.46E-03 |
| 224           | 1.86E-02 | 5   | 3.72E-03 |
| 225           | 1.51E-02 | 5   | 3.02E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 226      | 1.21E-02 | 5   | 2.42E-03 |
| 227      | 9.86E-03 | 5   | 1.97E-03 |
| 228      | 7.96E-03 | 5   | 1.59E-03 |
| 229      | 6.45E-03 | 5   | 1.29E-03 |
| 230      | 5.32E-03 | 5   | 1.06E-03 |
| 231      | 4.25E-03 | 5   | 8.50E-04 |
| 232      | 7.24E-03 | 5   | 1.45E-03 |
| 233      | 7.63E-03 | 5   | 1.53E-03 |
| 234      | 1.01E-02 | 5   | 2.02E-03 |
| 235      | 1.30E-02 | 5   | 2.59E-03 |
| 236      | 1.59E-02 | 5   | 3.17E-03 |
| 237      | 1.85E-02 | 5   | 3.71E-03 |
| 238      | 1.89E-02 | 5   | 3.78E-03 |
| 239      | 1.76E-02 | 5   | 3.51E-03 |
| 240      | 1.56E-02 | 5   | 3.12E-03 |
| 241      | 1.32E-02 | 5   | 2.65E-03 |
| 242      | 1.11E-02 | 5   | 2.23E-03 |
| 243      | 9.27E-03 | 5   | 1.85E-03 |
| 244      | 7.76E-03 | 5   | 1.55E-03 |
| 245      | 6.28E-03 | 5   | 1.26E-03 |
| 246      | 5.33E-03 | 5   | 1.07E-03 |
| 247      | 4.32E-03 | 5   | 8.64E-04 |
| 248      | 5.92E-03 | 5   | 1.18E-03 |
| 249      | 5.86E-03 | 5   | 1.17E-03 |
| 250      | 6.86E-03 | 5   | 1.37E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 251           | 8.81E-03 | 5   | 1.76E-03 |
| 252           | 1.12E-02 | 5   | 2.24E-03 |
| 253           | 1.30E-02 | 5   | 2.60E-03 |
| 254           | 1.39E-02 | 5   | 2.77E-03 |
| 255           | 1.38E-02 | 5   | 2.75E-03 |
| 256           | 1.29E-02 | 5   | 2.57E-03 |
| 257           | 1.15E-02 | 5   | 2.30E-03 |
| 258           | 9.99E-03 | 5   | 2.00E-03 |
| 259           | 8.58E-03 | 5   | 1.72E-03 |
| 260           | 7.35E-03 | 5   | 1.47E-03 |
| 261           | 6.11E-03 | 5   | 1.22E-03 |
| 262           | 5.22E-03 | 5   | 1.04E-03 |
| 263           | 4.32E-03 | 5   | 8.64E-04 |
| 264           | 3.97E-03 | 5   | 7.93E-04 |
| 265           | 3.83E-03 | 5   | 7.67E-04 |
| 266           | 3.96E-03 | 5   | 7.92E-04 |
| 267           | 4.55E-03 | 5   | 9.09E-04 |
| 268           | 4.52E-03 | 5   | 9.03E-04 |
| 269           | 5.09E-03 | 5   | 1.02E-03 |
| 270           | 6.29E-03 | 5   | 1.26E-03 |
| 271           | 7.99E-03 | 5   | 1.60E-03 |
| 272           | 9.47E-03 | 5   | 1.89E-03 |
| 273           | 1.05E-02 | 5   | 2.09E-03 |
| 274           | 1.08E-02 | 5   | 2.16E-03 |
| 275           | 1.05E-02 | 5   | 2.10E-03 |



**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor |          |     |          |
|----------|----------|-----|----------|
| #        | Conc     | REL | HI       |
| 276      | 9.78E-03 | 5   | 1.96E-03 |
| 277      | 8.81E-03 | 5   | 1.76E-03 |
| 278      | 7.80E-03 | 5   | 1.56E-03 |
| 279      | 6.84E-03 | 5   | 1.37E-03 |
| 280      | 5.84E-03 | 5   | 1.17E-03 |
| 281      | 4.93E-03 | 5   | 9.87E-04 |
| 282      | 4.16E-03 | 5   | 8.32E-04 |
| 283      | 3.15E-03 | 5   | 6.30E-04 |
| 284      | 3.02E-03 | 5   | 6.04E-04 |
| 285      | 2.96E-03 | 5   | 5.92E-04 |
| 286      | 3.13E-03 | 5   | 6.27E-04 |
| 287      | 3.58E-03 | 5   | 7.15E-04 |
| 288      | 3.90E-03 | 5   | 7.79E-04 |
| 289      | 4.06E-03 | 5   | 8.11E-04 |
| 290      | 4.90E-03 | 5   | 9.81E-04 |
| 291      | 5.98E-03 | 5   | 1.20E-03 |
| 292      | 7.12E-03 | 5   | 1.42E-03 |
| 293      | 8.04E-03 | 5   | 1.61E-03 |
| 294      | 8.57E-03 | 5   | 1.71E-03 |
| 295      | 8.60E-03 | 5   | 1.72E-03 |
| 296      | 8.30E-03 | 5   | 1.66E-03 |
| 297      | 7.75E-03 | 5   | 1.55E-03 |
| 298      | 7.02E-03 | 5   | 1.40E-03 |
| 299      | 6.27E-03 | 5   | 1.25E-03 |
| 300      | 5.48E-03 | 5   | 1.10E-03 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 301           | 4.52E-03 | 5   | 9.04E-04 |
| 302           | 3.98E-03 | 5   | 7.96E-04 |
| 303           | 2.68E-03 | 5   | 5.35E-04 |
| 304           | 2.46E-03 | 5   | 4.91E-04 |
| 305           | 2.43E-03 | 5   | 4.86E-04 |
| 306           | 2.35E-03 | 5   | 4.70E-04 |
| 307           | 2.42E-03 | 5   | 4.83E-04 |
| 308           | 2.67E-03 | 5   | 5.34E-04 |
| 309           | 3.02E-03 | 5   | 6.04E-04 |
| 310           | 3.27E-03 | 5   | 6.54E-04 |
| 311           | 3.86E-03 | 5   | 7.71E-04 |
| 312           | 4.63E-03 | 5   | 9.26E-04 |
| 313           | 5.50E-03 | 5   | 1.10E-03 |
| 314           | 6.29E-03 | 5   | 1.26E-03 |
| 315           | 6.85E-03 | 5   | 1.37E-03 |
| 316           | 7.10E-03 | 5   | 1.42E-03 |
| 317           | 7.03E-03 | 5   | 1.41E-03 |
| 318           | 6.72E-03 | 5   | 1.34E-03 |
| 319           | 6.25E-03 | 5   | 1.25E-03 |
| 320           | 5.65E-03 | 5   | 1.13E-03 |
| 321           | 5.07E-03 | 5   | 1.01E-03 |
| 322           | 4.21E-03 | 5   | 8.41E-04 |
| 323           | 3.77E-03 | 5   | 7.54E-04 |
| 324           | 2.60E-03 | 5   | 5.21E-04 |
| 325           | 2.26E-03 | 5   | 4.53E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 326           | 2.21E-03 | 5   | 4.42E-04 |
| 327           | 2.00E-03 | 5   | 4.00E-04 |
| 328           | 2.00E-03 | 5   | 4.00E-04 |
| 329           | 2.17E-03 | 5   | 4.33E-04 |
| 330           | 2.26E-03 | 5   | 4.52E-04 |
| 331           | 2.45E-03 | 5   | 4.90E-04 |
| 332           | 2.75E-03 | 5   | 5.51E-04 |
| 333           | 3.13E-03 | 5   | 6.25E-04 |
| 334           | 3.68E-03 | 5   | 7.37E-04 |
| 335           | 4.34E-03 | 5   | 8.68E-04 |
| 336           | 5.00E-03 | 5   | 1.00E-03 |
| 337           | 5.52E-03 | 5   | 1.10E-03 |
| 338           | 5.87E-03 | 5   | 1.17E-03 |
| 339           | 5.97E-03 | 5   | 1.19E-03 |
| 340           | 5.84E-03 | 5   | 1.17E-03 |
| 341           | 5.56E-03 | 5   | 1.11E-03 |
| 342           | 4.99E-03 | 5   | 9.98E-04 |
| 343           | 4.59E-03 | 5   | 9.18E-04 |
| 344           | 3.92E-03 | 5   | 7.83E-04 |
| 345           | 3.55E-03 | 5   | 7.09E-04 |
| 346           | 1.98E-03 | 5   | 3.97E-04 |
| 347           | 1.90E-03 | 5   | 3.81E-04 |
| 348           | 1.83E-03 | 5   | 3.65E-04 |
| 349           | 1.73E-03 | 5   | 3.46E-04 |
| 350           | 1.75E-03 | 5   | 3.49E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

*Non Cancer Risk*

| Receptor<br># | Conc     | REL | HI       |
|---------------|----------|-----|----------|
| 351           | 1.86E-03 | 5   | 3.72E-04 |
| 352           | 1.98E-03 | 5   | 3.96E-04 |
| 353           | 2.10E-03 | 5   | 4.19E-04 |
| 354           | 2.30E-03 | 5   | 4.60E-04 |
| 355           | 2.52E-03 | 5   | 5.04E-04 |
| 356           | 3.01E-03 | 5   | 6.02E-04 |
| 357           | 3.51E-03 | 5   | 7.01E-04 |
| 358           | 4.05E-03 | 5   | 8.09E-04 |
| 359           | 4.52E-03 | 5   | 9.04E-04 |
| 360           | 4.88E-03 | 5   | 9.76E-04 |
| 361           | 5.06E-03 | 5   | 1.01E-03 |
| 362           | 5.08E-03 | 5   | 1.02E-03 |
| 363           | 4.92E-03 | 5   | 9.84E-04 |
| 364           | 4.45E-03 | 5   | 8.90E-04 |
| 365           | 4.17E-03 | 5   | 8.34E-04 |
| 366           | 3.63E-03 | 5   | 7.25E-04 |
| 367           | 3.32E-03 | 5   | 6.64E-04 |
| 368           | 1.72E-03 | 5   | 3.44E-04 |
| 369           | 1.69E-03 | 5   | 3.37E-04 |
| 370           | 1.60E-03 | 5   | 3.19E-04 |
| 371           | 1.49E-03 | 5   | 2.98E-04 |
| 372           | 1.55E-03 | 5   | 3.10E-04 |
| 373           | 1.51E-03 | 5   | 3.02E-04 |
| 374           | 1.65E-03 | 5   | 3.30E-04 |
| 375           | 1.71E-03 | 5   | 3.43E-04 |

**Big Canyon Phase 2**  
**Risk from Construction Phase 5**

***Non Cancer Risk***

**Receptor**

| <b>#</b> | <b>Conc</b> | <b>REL</b> | <b>HI</b> |
|----------|-------------|------------|-----------|
| 376      | 1.87E-03    | 5          | 3.75E-04  |
| 377      | 2.03E-03    | 5          | 4.06E-04  |
| 378      | 2.16E-03    | 5          | 4.32E-04  |
| 379      | 2.49E-03    | 5          | 4.99E-04  |
| 380      | 2.76E-03    | 5          | 5.52E-04  |
| 381      | 3.32E-03    | 5          | 6.64E-04  |
| 382      | 3.74E-03    | 5          | 7.49E-04  |
| 383      | 4.08E-03    | 5          | 8.17E-04  |
| 384      | 4.30E-03    | 5          | 8.61E-04  |
| 385      | 4.38E-03    | 5          | 8.75E-04  |
| 386      | 4.30E-03    | 5          | 8.60E-04  |
| 387      | 3.97E-03    | 5          | 7.94E-04  |
| 388      | 3.76E-03    | 5          | 7.53E-04  |
| 389      | 3.35E-03    | 5          | 6.71E-04  |
| 390      | 3.10E-03    | 5          | 6.19E-04  |

**Big Canyon Phase 2A - Air Quality Appendix**  
**AERMOD Output**

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 5/21/2018
** File: C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon Phase 2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P
MODELOPT DFAULT CONC
AVERTIME ANNUAL
URBANOPT 3010759 SCAQMD_Orange_County
POLLUTID PM_10
RUNORNOT RUN
ERRORFIL "Big Canyon Phase 2.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Separated Volume Sources (2W)
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 10.00
** Configuration = Separated 2W
** Emission Rate = 1.0
** Vertical Dimension = 7.42
** SZINIT = 3.45
** Nodes = 142
** 418199.251, 3721591.765, 8.05, 5.00, 9.30
** 418207.081, 3721631.784, 6.24, 5.00, 9.30
** 418215.781, 3721641.354, 6.61, 5.00, 9.30
** 418246.665, 3721630.914, 6.87, 5.00, 9.30
** 418295.819, 3721620.910, 7.43, 5.00, 9.30
** 418318.873, 3721627.000, 8.54, 5.00, 9.30
** 418363.242, 3721640.484, 14.09, 5.00, 9.30
** 418397.171, 3721586.110, 10.98, 5.00, 9.30
** 418414.136, 3721556.096, 13.00, 5.00, 9.30
** 418431.536, 3721510.857, 12.80, 5.00, 9.30
** 418452.850, 3721466.053, 13.05, 5.00, 9.30
** 418452.415, 3721431.689, 10.46, 5.00, 9.30
** 418445.455, 3721364.265, 10.90, 5.00, 9.30
** 418409.351, 3721339.471, 17.57, 5.00, 9.30
** 418386.297, 3721361.221, 12.95, 5.00, 9.30
** 418369.332, 3721381.230, 12.49, 5.00, 9.30
** 418367.157, 3721398.630, 11.74, 5.00, 9.30
** 418371.072, 3721426.904, 10.17, 5.00, 9.30
** 418366.287, 3721454.308, 9.39, 5.00, 9.30
** 418371.072, 3721481.713, 8.97, 5.00, 9.30
** 418348.018, 3721513.467, 8.39, 5.00, 9.30
** 418317.133, 3721531.737, 7.96, 5.00, 9.30
** 418301.039, 3721537.392, 7.88, 5.00, 9.30
** 418291.904, 3721530.432, 7.78, 5.00, 9.30
** 418287.119, 3721515.642, 8.22, 5.00, 9.30
** 418284.944, 3721512.162, 8.40, 5.00, 9.30
** 418266.674, 3721516.512, 8.30, 5.00, 9.30
** 418247.535, 3721529.562, 8.49, 5.00, 9.30
** 418232.745, 3721546.961, 8.17, 5.00, 9.30
** 418241.445, 3721555.661, 7.41, 5.00, 9.30
** 418257.105, 3721564.361, 7.47, 5.00, 9.30
** 418243.185, 3721593.940, 7.12, 5.00, 9.30
** 418228.395, 3721590.460, 7.12, 5.00, 9.30
** 418217.521, 3721574.366, 8.04, 5.00, 9.30
** 418203.166, 3721588.720, 8.04, 5.00, 9.30
** 418213.171, 3721627.435, 6.52, 5.00, 9.30
** 418219.260, 3721632.654, 6.58, 5.00, 9.30
** 418293.644, 3721613.515, 7.19, 5.00, 9.30
** 418360.197, 3721632.654, 12.37, 5.00, 9.30
** 418405.001, 3721559.141, 9.32, 5.00, 9.30
** 418446.325, 3721464.313, 11.26, 5.00, 9.30
** 418438.931, 3721368.180, 10.89, 5.00, 9.30
** 418409.786, 3721347.301, 13.85, 5.00, 9.30
** 418375.422, 3721382.535, 10.45, 5.00, 9.30
** 418374.117, 3721398.630, 10.51, 5.00, 9.30
** 418378.467, 3721429.514, 9.93, 5.00, 9.30
** 418371.507, 3721456.918, 9.52, 5.00, 9.30
** 418378.032, 3721486.063, 8.96, 5.00, 9.30
** 418352.367, 3721519.992, 8.37, 5.00, 9.30

```

|    |             |              |        |       |      |
|----|-------------|--------------|--------|-------|------|
| ** | 418301.474, | 3721544.351, | 7.84,  | 5.00, | 9.30 |
| ** | 418285.814, | 3721535.217, | 7.81,  | 5.00, | 9.30 |
| ** | 418281.029, | 3721520.427, | 7.85,  | 5.00, | 9.30 |
| ** | 418250.145, | 3721538.262, | 7.66,  | 5.00, | 9.30 |
| ** | 418242.750, | 3721547.396, | 7.46,  | 5.00, | 9.30 |
| ** | 418268.849, | 3721561.751, | 7.54,  | 5.00, | 9.30 |
| ** | 418246.665, | 3721602.640, | 7.03,  | 5.00, | 9.30 |
| ** | 418223.610, | 3721596.550, | 7.06,  | 5.00, | 9.30 |
| ** | 418216.216, | 3721585.675, | 7.46,  | 5.00, | 9.30 |
| ** | 418210.561, | 3721591.330, | 7.41,  | 5.00, | 9.30 |
| ** | 418217.521, | 3721613.515, | 6.76,  | 5.00, | 9.30 |
| ** | 418220.565, | 3721624.825, | 6.88,  | 5.00, | 9.30 |
| ** | 418291.469, | 3721605.250, | 7.26,  | 5.00, | 9.30 |
| ** | 418356.717, | 3721623.085, | 9.74,  | 5.00, | 9.30 |
| ** | 418399.781, | 3721551.311, | 8.64,  | 5.00, | 9.30 |
| ** | 418436.756, | 3721464.748, | 9.82,  | 5.00, | 9.30 |
| ** | 418430.231, | 3721374.270, | 10.72, | 5.00, | 9.30 |
| ** | 418410.221, | 3721359.481, | 11.34, | 5.00, | 9.30 |
| ** | 418381.512, | 3721386.015, | 10.30, | 5.00, | 9.30 |
| ** | 418387.167, | 3721431.254, | 9.65,  | 5.00, | 9.30 |
| ** | 418378.902, | 3721459.093, | 9.57,  | 5.00, | 9.30 |
| ** | 418387.167, | 3721492.588, | 9.00,  | 5.00, | 9.30 |
| ** | 418356.282, | 3721528.692, | 8.41,  | 5.00, | 9.30 |
| ** | 418303.214, | 3721552.181, | 7.81,  | 5.00, | 9.30 |
| ** | 418280.159, | 3721539.567, | 7.75,  | 5.00, | 9.30 |
| ** | 418276.244, | 3721532.172, | 7.65,  | 5.00, | 9.30 |
| ** | 418255.365, | 3721546.526, | 7.53,  | 5.00, | 9.30 |
| ** | 418282.769, | 3721561.751, | 7.62,  | 5.00, | 9.30 |
| ** | 418252.320, | 3721606.120, | 6.90,  | 5.00, | 9.30 |
| ** | 418248.405, | 3721609.600, | 6.92,  | 5.00, | 9.30 |
| ** | 418220.565, | 3721600.465, | 7.01,  | 5.00, | 9.30 |
| ** | 418224.915, | 3721616.560, | 7.03,  | 5.00, | 9.30 |
| ** | 418228.395, | 3721610.905, | 6.85,  | 5.00, | 9.30 |
| ** | 418232.310, | 3721617.430, | 6.87,  | 5.00, | 9.30 |
| ** | 418237.965, | 3721611.340, | 6.95,  | 5.00, | 9.30 |
| ** | 418250.145, | 3721613.080, | 6.93,  | 5.00, | 9.30 |
| ** | 418265.804, | 3721607.860, | 7.02,  | 5.00, | 9.30 |
| ** | 418260.150, | 3721602.205, | 7.02,  | 5.00, | 9.30 |
| ** | 418266.674, | 3721595.245, | 7.17,  | 5.00, | 9.30 |
| ** | 418273.634, | 3721604.815, | 7.13,  | 5.00, | 9.30 |
| ** | 418295.819, | 3721597.420, | 7.32,  | 5.00, | 9.30 |
| ** | 418352.802, | 3721612.645, | 8.69,  | 5.00, | 9.30 |
| ** | 418394.127, | 3721540.871, | 8.50,  | 5.00, | 9.30 |
| ** | 418425.446, | 3721463.443, | 9.32,  | 5.00, | 9.30 |
| ** | 418421.096, | 3721382.535, | 10.57, | 5.00, | 9.30 |
| ** | 418410.221, | 3721372.965, | 10.66, | 5.00, | 9.30 |
| ** | 418391.082, | 3721389.060, | 10.36, | 5.00, | 9.30 |
| ** | 418397.606, | 3721437.344, | 9.84,  | 5.00, | 9.30 |
| ** | 418386.732, | 3721461.703, | 9.23,  | 5.00, | 9.30 |
| ** | 418394.127, | 3721499.982, | 8.38,  | 5.00, | 9.30 |
| ** | 418352.802, | 3721545.221, | 8.01,  | 5.00, | 9.30 |
| ** | 418307.128, | 3721560.446, | 7.76,  | 5.00, | 9.30 |
| ** | 418272.764, | 3721541.741, | 7.60,  | 5.00, | 9.30 |
| ** | 418270.154, | 3721546.961, | 7.59,  | 5.00, | 9.30 |
| ** | 418295.384, | 3721566.536, | 7.65,  | 5.00, | 9.30 |
| ** | 418269.284, | 3721591.330, | 7.31,  | 5.00, | 9.30 |
| ** | 418276.679, | 3721597.420, | 7.27,  | 5.00, | 9.30 |
| ** | 418281.899, | 3721595.680, | 7.25,  | 5.00, | 9.30 |
| ** | 418279.724, | 3721590.025, | 7.37,  | 5.00, | 9.30 |
| ** | 418287.989, | 3721586.980, | 7.37,  | 5.00, | 9.30 |
| ** | 418349.758, | 3721602.640, | 8.20,  | 5.00, | 9.30 |
| ** | 418354.542, | 3721595.245, | 8.35,  | 5.00, | 9.30 |
| ** | 418295.819, | 3721580.456, | 7.45,  | 5.00, | 9.30 |
| ** | 418300.604, | 3721571.756, | 7.61,  | 5.00, | 9.30 |
| ** | 418359.762, | 3721587.415, | 8.20,  | 5.00, | 9.30 |
| ** | 418364.982, | 3721578.281, | 8.14,  | 5.00, | 9.30 |
| ** | 418315.828, | 3721566.971, | 7.71,  | 5.00, | 9.30 |
| ** | 418324.963, | 3721562.621, | 7.60,  | 5.00, | 9.30 |
| ** | 418368.462, | 3721570.451, | 8.25,  | 5.00, | 9.30 |
| ** | 418373.247, | 3721560.881, | 8.33,  | 5.00, | 9.30 |
| ** | 418344.538, | 3721558.706, | 8.14,  | 5.00, | 9.30 |
| ** | 418357.587, | 3721550.006, | 8.10,  | 5.00, | 9.30 |
| ** | 418379.772, | 3721552.181, | 8.35,  | 5.00, | 9.30 |
| ** | 418385.862, | 3721540.437, | 8.53,  | 5.00, | 9.30 |
| ** | 418367.592, | 3721540.002, | 8.16,  | 5.00, | 9.30 |
| ** | 418377.162, | 3721527.822, | 7.83,  | 5.00, | 9.30 |
| ** | 418391.082, | 3721529.997, | 8.56,  | 5.00, | 9.30 |
| ** | 418398.041, | 3721515.207, | 8.55,  | 5.00, | 9.30 |
| ** | 418388.907, | 3721515.642, | 8.67,  | 5.00, | 9.30 |
| ** | 418406.306, | 3721498.242, | 8.98,  | 5.00, | 9.30 |
| ** | 418396.301, | 3721489.978, | 8.92,  | 5.00, | 9.30 |
| ** | 418396.301, | 3721478.668, | 9.14,  | 5.00, | 9.30 |
| ** | 418410.221, | 3721485.193, | 8.90,  | 5.00, | 9.30 |
| ** | 418415.441, | 3721465.618, | 9.08,  | 5.00, | 9.30 |
| ** | 418396.301, | 3721463.443, | 9.26,  | 5.00, | 9.30 |
| ** | 418402.391, | 3721449.524, | 9.72,  | 5.00, | 9.30 |
| ** | 418419.356, | 3721451.699, | 9.38,  | 5.00, | 9.30 |
| ** | 418417.181, | 3721389.930, | 10.33, | 5.00, | 9.30 |
| ** | 418408.046, | 3721384.710, | 10.38, | 5.00, | 9.30 |
| ** | 418399.346, | 3721393.410, | 10.37, | 5.00, | 9.30 |
| ** | 418403.696, | 3721441.694, | 9.68,  | 5.00, | 9.30 |
| ** | 418410.656, | 3721441.694, | 9.96,  | 5.00, | 9.30 |
| ** | 418408.916, | 3721393.845, | 10.34, | 5.00, | 9.30 |

-----  
LOCATION L0000001      VOLUME      418200.211 3721596.672 7.89



|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000002 | VOLUME | 418204.051 | 3721616.300 | 7.39  |
| LOCATION | L0000003 | VOLUME | 418209.921 | 3721634.909 | 6.46  |
| LOCATION | L0000004 | VOLUME | 418226.475 | 3721637.739 | 7.05  |
| LOCATION | L0000005 | VOLUME | 418245.422 | 3721631.335 | 6.75  |
| LOCATION | L0000006 | VOLUME | 418264.977 | 3721627.187 | 7.73  |
| LOCATION | L0000007 | VOLUME | 418284.575 | 3721623.198 | 7.51  |
| LOCATION | L0000008 | VOLUME | 418304.062 | 3721623.087 | 7.84  |
| LOCATION | L0000009 | VOLUME | 418323.352 | 3721628.361 | 8.80  |
| LOCATION | L0000010 | VOLUME | 418342.488 | 3721634.176 | 10.06 |
| LOCATION | L0000011 | VOLUME | 418361.623 | 3721639.992 | 14.02 |
| LOCATION | L0000012 | VOLUME | 418372.934 | 3721624.952 | 12.92 |
| LOCATION | L0000013 | VOLUME | 418383.522 | 3721607.985 | 12.32 |
| LOCATION | L0000014 | VOLUME | 418394.110 | 3721591.017 | 11.59 |
| LOCATION | L0000015 | VOLUME | 418404.167 | 3721573.734 | 12.27 |
| LOCATION | L0000016 | VOLUME | 418414.008 | 3721556.323 | 13.27 |
| LOCATION | L0000017 | VOLUME | 418421.222 | 3721537.672 | 11.28 |
| LOCATION | L0000018 | VOLUME | 418428.402 | 3721519.005 | 11.58 |
| LOCATION | L0000019 | VOLUME | 418436.377 | 3721500.680 | 12.39 |
| LOCATION | L0000020 | VOLUME | 418444.969 | 3721482.620 | 13.17 |
| LOCATION | L0000021 | VOLUME | 418452.829 | 3721464.399 | 12.96 |
| LOCATION | L0000022 | VOLUME | 418452.576 | 3721444.400 | 10.80 |
| LOCATION | L0000023 | VOLUME | 418451.667 | 3721424.440 | 10.21 |
| LOCATION | L0000024 | VOLUME | 418449.613 | 3721404.546 | 10.40 |
| LOCATION | L0000025 | VOLUME | 418447.560 | 3721384.651 | 10.50 |
| LOCATION | L0000026 | VOLUME | 418445.506 | 3721364.757 | 10.82 |
| LOCATION | L0000027 | VOLUME | 418429.376 | 3721353.223 | 10.54 |
| LOCATION | L0000028 | VOLUME | 418412.890 | 3721341.901 | 12.41 |
| LOCATION | L0000029 | VOLUME | 418397.926 | 3721350.250 | 12.92 |
| LOCATION | L0000030 | VOLUME | 418383.702 | 3721364.281 | 12.52 |
| LOCATION | L0000031 | VOLUME | 418370.768 | 3721379.537 | 12.16 |
| LOCATION | L0000032 | VOLUME | 418367.191 | 3721398.872 | 11.00 |
| LOCATION | L0000033 | VOLUME | 418369.934 | 3721418.683 | 10.12 |
| LOCATION | L0000034 | VOLUME | 418369.060 | 3721438.430 | 9.43  |
| LOCATION | L0000035 | VOLUME | 418366.955 | 3721458.132 | 9.30  |
| LOCATION | L0000036 | VOLUME | 418370.395 | 3721477.834 | 8.89  |
| LOCATION | L0000037 | VOLUME | 418361.635 | 3721494.711 | 8.65  |
| LOCATION | L0000038 | VOLUME | 418349.885 | 3721510.895 | 8.42  |
| LOCATION | L0000039 | VOLUME | 418333.539 | 3721522.032 | 8.08  |
| LOCATION | L0000040 | VOLUME | 418316.248 | 3721532.048 | 7.98  |
| LOCATION | L0000041 | VOLUME | 418297.953 | 3721535.041 | 7.80  |
| LOCATION | L0000042 | VOLUME | 418288.088 | 3721518.638 | 8.08  |
| LOCATION | L0000043 | VOLUME | 418272.543 | 3721515.115 | 8.32  |
| LOCATION | L0000044 | VOLUME | 418255.135 | 3721524.380 | 8.10  |
| LOCATION | L0000045 | VOLUME | 418240.539 | 3721537.792 | 8.04  |
| LOCATION | L0000046 | VOLUME | 418238.378 | 3721552.594 | 7.46  |
| LOCATION | L0000047 | VOLUME | 418255.136 | 3721563.268 | 7.49  |
| LOCATION | L0000048 | VOLUME | 418249.547 | 3721580.420 | 7.46  |
| LOCATION | L0000049 | VOLUME | 418238.262 | 3721592.782 | 7.13  |
| LOCATION | L0000050 | VOLUME | 418222.873 | 3721582.287 | 7.24  |
| LOCATION | L0000051 | VOLUME | 418210.138 | 3721581.748 | 8.07  |
| LOCATION | L0000052 | VOLUME | 418205.703 | 3721598.537 | 7.95  |
| LOCATION | L0000053 | VOLUME | 418210.707 | 3721617.901 | 6.80  |
| LOCATION | L0000054 | VOLUME | 418221.326 | 3721632.123 | 6.77  |
| LOCATION | L0000055 | VOLUME | 418240.695 | 3721627.139 | 6.60  |
| LOCATION | L0000056 | VOLUME | 418260.064 | 3721622.155 | 7.21  |
| LOCATION | L0000057 | VOLUME | 418279.433 | 3721617.171 | 7.02  |
| LOCATION | L0000058 | VOLUME | 418298.763 | 3721614.987 | 7.21  |
| LOCATION | L0000059 | VOLUME | 418317.984 | 3721620.515 | 8.04  |
| LOCATION | L0000060 | VOLUME | 418337.205 | 3721626.042 | 8.80  |
| LOCATION | L0000061 | VOLUME | 418356.426 | 3721631.570 | 10.99 |
| LOCATION | L0000062 | VOLUME | 418368.563 | 3721618.928 | 9.33  |
| LOCATION | L0000063 | VOLUME | 418378.972 | 3721601.849 | 9.42  |
| LOCATION | L0000064 | VOLUME | 418389.380 | 3721584.771 | 9.06  |
| LOCATION | L0000065 | VOLUME | 418399.789 | 3721567.693 | 9.81  |
| LOCATION | L0000066 | VOLUME | 418408.990 | 3721549.988 | 10.17 |
| LOCATION | L0000067 | VOLUME | 418416.980 | 3721531.653 | 9.74  |
| LOCATION | L0000068 | VOLUME | 418424.970 | 3721513.318 | 10.10 |
| LOCATION | L0000069 | VOLUME | 418432.960 | 3721494.984 | 10.72 |
| LOCATION | L0000070 | VOLUME | 418440.950 | 3721476.649 | 11.58 |
| LOCATION | L0000071 | VOLUME | 418445.823 | 3721457.789 | 10.58 |
| LOCATION | L0000072 | VOLUME | 418444.290 | 3721437.848 | 10.09 |
| LOCATION | L0000073 | VOLUME | 418442.756 | 3721417.906 | 10.25 |
| LOCATION | L0000074 | VOLUME | 418441.222 | 3721397.965 | 10.19 |
| LOCATION | L0000075 | VOLUME | 418439.688 | 3721378.024 | 10.52 |
| LOCATION | L0000076 | VOLUME | 418430.698 | 3721362.283 | 10.84 |
| LOCATION | L0000077 | VOLUME | 418414.440 | 3721350.635 | 10.94 |
| LOCATION | L0000078 | VOLUME | 418399.819 | 3721357.520 | 11.42 |
| LOCATION | L0000079 | VOLUME | 418385.855 | 3721371.838 | 10.66 |
| LOCATION | L0000080 | VOLUME | 418375.013 | 3721387.576 | 10.60 |
| LOCATION | L0000081 | VOLUME | 418375.360 | 3721407.453 | 10.03 |
| LOCATION | L0000082 | VOLUME | 418378.149 | 3721427.258 | 9.87  |
| LOCATION | L0000083 | VOLUME | 418374.105 | 3721446.690 | 9.54  |
| LOCATION | L0000084 | VOLUME | 418373.571 | 3721466.137 | 9.26  |
| LOCATION | L0000085 | VOLUME | 418377.940 | 3721485.654 | 8.95  |
| LOCATION | L0000086 | VOLUME | 418366.219 | 3721501.679 | 8.64  |
| LOCATION | L0000087 | VOLUME | 418354.154 | 3721517.630 | 8.39  |
| LOCATION | L0000088 | VOLUME | 418336.998 | 3721527.348 | 8.13  |
| LOCATION | L0000089 | VOLUME | 418318.958 | 3721535.983 | 7.95  |
| LOCATION | L0000090 | VOLUME | 418300.942 | 3721544.041 | 7.78  |
| LOCATION | L0000091 | VOLUME | 418285.049 | 3721532.851 | 7.77  |
| LOCATION | L0000092 | VOLUME | 418275.017 | 3721523.898 | 7.75  |
| LOCATION | L0000093 | VOLUME | 418257.698 | 3721533.900 | 7.50  |
| LOCATION | L0000094 | VOLUME | 418243.049 | 3721547.027 | 7.39  |
| LOCATION | L0000095 | VOLUME | 418259.858 | 3721556.806 | 7.43  |
| LOCATION | L0000096 | VOLUME | 418264.205 | 3721570.311 | 7.55  |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000097 | VOLUME | 418254.667 | 3721587.890 | 7.28  |
| LOCATION | L0000098 | VOLUME | 418243.552 | 3721601.818 | 7.02  |
| LOCATION | L0000099 | VOLUME | 418224.216 | 3721596.710 | 7.09  |
| LOCATION | L0000100 | VOLUME | 418211.815 | 3721590.076 | 7.60  |
| LOCATION | L0000101 | VOLUME | 418216.016 | 3721608.721 | 6.97  |
| LOCATION | L0000102 | VOLUME | 418223.711 | 3721623.956 | 6.96  |
| LOCATION | L0000103 | VOLUME | 418242.990 | 3721618.634 | 7.00  |
| LOCATION | L0000104 | VOLUME | 418262.268 | 3721613.312 | 7.01  |
| LOCATION | L0000105 | VOLUME | 418281.547 | 3721607.989 | 7.14  |
| LOCATION | L0000106 | VOLUME | 418300.832 | 3721607.809 | 7.11  |
| LOCATION | L0000107 | VOLUME | 418320.125 | 3721613.083 | 7.80  |
| LOCATION | L0000108 | VOLUME | 418339.417 | 3721618.356 | 8.49  |
| LOCATION | L0000109 | VOLUME | 418357.780 | 3721621.314 | 9.57  |
| LOCATION | L0000110 | VOLUME | 418368.070 | 3721604.164 | 8.85  |
| LOCATION | L0000111 | VOLUME | 418378.360 | 3721587.014 | 8.65  |
| LOCATION | L0000112 | VOLUME | 418388.650 | 3721569.864 | 8.43  |
| LOCATION | L0000113 | VOLUME | 418398.940 | 3721552.714 | 8.67  |
| LOCATION | L0000114 | VOLUME | 418406.995 | 3721534.424 | 8.84  |
| LOCATION | L0000115 | VOLUME | 418414.851 | 3721516.031 | 9.09  |
| LOCATION | L0000116 | VOLUME | 418422.707 | 3721497.639 | 9.36  |
| LOCATION | L0000117 | VOLUME | 418430.563 | 3721479.246 | 9.83  |
| LOCATION | L0000118 | VOLUME | 418436.451 | 3721460.524 | 9.78  |
| LOCATION | L0000119 | VOLUME | 418435.012 | 3721440.576 | 9.92  |
| LOCATION | L0000120 | VOLUME | 418433.574 | 3721420.628 | 10.07 |
| LOCATION | L0000121 | VOLUME | 418432.135 | 3721400.680 | 10.18 |
| LOCATION | L0000122 | VOLUME | 418430.697 | 3721380.732 | 10.50 |
| LOCATION | L0000123 | VOLUME | 418419.357 | 3721366.233 | 10.69 |
| LOCATION | L0000124 | VOLUME | 418403.876 | 3721365.345 | 10.63 |
| LOCATION | L0000125 | VOLUME | 418389.189 | 3721378.920 | 10.40 |
| LOCATION | L0000126 | VOLUME | 418382.696 | 3721395.488 | 10.21 |
| LOCATION | L0000127 | VOLUME | 418385.177 | 3721415.333 | 9.81  |
| LOCATION | L0000128 | VOLUME | 418386.041 | 3721435.046 | 9.61  |
| LOCATION | L0000129 | VOLUME | 418380.349 | 3721454.219 | 9.55  |
| LOCATION | L0000130 | VOLUME | 418382.475 | 3721473.574 | 9.16  |
| LOCATION | L0000131 | VOLUME | 418386.896 | 3721492.904 | 9.01  |
| LOCATION | L0000132 | VOLUME | 418373.895 | 3721508.102 | 8.68  |
| LOCATION | L0000133 | VOLUME | 418360.895 | 3721523.300 | 8.51  |
| LOCATION | L0000134 | VOLUME | 418344.482 | 3721533.915 | 8.16  |
| LOCATION | L0000135 | VOLUME | 418326.194 | 3721542.010 | 8.01  |
| LOCATION | L0000136 | VOLUME | 418307.905 | 3721550.105 | 7.87  |
| LOCATION | L0000137 | VOLUME | 418290.169 | 3721545.044 | 7.77  |
| LOCATION | L0000138 | VOLUME | 418276.061 | 3721532.298 | 7.64  |
| LOCATION | L0000139 | VOLUME | 418259.580 | 3721543.628 | 7.51  |
| LOCATION | L0000140 | VOLUME | 418268.376 | 3721553.755 | 7.53  |
| LOCATION | L0000141 | VOLUME | 418280.769 | 3721564.666 | 7.61  |
| LOCATION | L0000142 | VOLUME | 418269.452 | 3721581.156 | 7.48  |
| LOCATION | L0000143 | VOLUME | 418258.135 | 3721597.646 | 7.17  |
| LOCATION | L0000144 | VOLUME | 418244.144 | 3721608.202 | 6.92  |
| LOCATION | L0000145 | VOLUME | 418225.141 | 3721601.966 | 6.98  |
| LOCATION | L0000146 | VOLUME | 418224.527 | 3721615.124 | 7.04  |
| LOCATION | L0000147 | VOLUME | 418235.211 | 3721614.305 | 6.91  |
| LOCATION | L0000148 | VOLUME | 418253.607 | 3721611.926 | 6.89  |
| LOCATION | L0000149 | VOLUME | 418260.753 | 3721602.809 | 7.05  |
| LOCATION | L0000150 | VOLUME | 418272.324 | 3721603.014 | 7.15  |
| LOCATION | L0000151 | VOLUME | 418290.495 | 3721599.195 | 7.28  |
| LOCATION | L0000152 | VOLUME | 418309.720 | 3721601.134 | 7.21  |
| LOCATION | L0000153 | VOLUME | 418329.042 | 3721606.297 | 7.77  |
| LOCATION | L0000154 | VOLUME | 418348.364 | 3721611.459 | 8.41  |
| LOCATION | L0000155 | VOLUME | 418360.489 | 3721599.294 | 8.65  |
| LOCATION | L0000156 | VOLUME | 418370.469 | 3721581.961 | 8.34  |
| LOCATION | L0000157 | VOLUME | 418380.448 | 3721564.629 | 8.36  |
| LOCATION | L0000158 | VOLUME | 418390.427 | 3721547.296 | 8.42  |
| LOCATION | L0000159 | VOLUME | 418398.846 | 3721529.204 | 8.52  |
| LOCATION | L0000160 | VOLUME | 418406.346 | 3721510.663 | 8.78  |
| LOCATION | L0000161 | VOLUME | 418413.845 | 3721492.122 | 9.05  |
| LOCATION | L0000162 | VOLUME | 418421.345 | 3721473.582 | 9.08  |
| LOCATION | L0000163 | VOLUME | 418424.959 | 3721454.393 | 9.29  |
| LOCATION | L0000164 | VOLUME | 418423.886 | 3721434.422 | 9.67  |
| LOCATION | L0000165 | VOLUME | 418422.812 | 3721414.450 | 9.77  |
| LOCATION | L0000166 | VOLUME | 418421.738 | 3721394.479 | 10.33 |
| LOCATION | L0000167 | VOLUME | 418415.061 | 3721377.225 | 10.70 |
| LOCATION | L0000168 | VOLUME | 418399.848 | 3721381.688 | 10.31 |
| LOCATION | L0000169 | VOLUME | 418392.226 | 3721397.528 | 10.19 |
| LOCATION | L0000170 | VOLUME | 418394.904 | 3721417.348 | 10.11 |
| LOCATION | L0000171 | VOLUME | 418397.583 | 3721437.168 | 9.77  |
| LOCATION | L0000172 | VOLUME | 418389.526 | 3721455.445 | 9.48  |
| LOCATION | L0000173 | VOLUME | 418389.225 | 3721474.611 | 9.15  |
| LOCATION | L0000174 | VOLUME | 418393.019 | 3721494.248 | 8.93  |
| LOCATION | L0000175 | VOLUME | 418384.577 | 3721510.437 | 8.43  |
| LOCATION | L0000176 | VOLUME | 418371.088 | 3721525.203 | 8.45  |
| LOCATION | L0000177 | VOLUME | 418357.600 | 3721539.970 | 8.37  |
| LOCATION | L0000178 | VOLUME | 418340.577 | 3721549.297 | 7.79  |
| LOCATION | L0000179 | VOLUME | 418321.603 | 3721555.621 | 7.73  |
| LOCATION | L0000180 | VOLUME | 418302.963 | 3721558.179 | 7.73  |
| LOCATION | L0000181 | VOLUME | 418285.397 | 3721548.617 | 7.65  |
| LOCATION | L0000182 | VOLUME | 418270.252 | 3721546.766 | 7.59  |
| LOCATION | L0000183 | VOLUME | 418285.784 | 3721559.087 | 7.63  |
| LOCATION | L0000184 | VOLUME | 418289.693 | 3721571.942 | 7.60  |
| LOCATION | L0000185 | VOLUME | 418275.193 | 3721585.717 | 7.47  |
| LOCATION | L0000186 | VOLUME | 418278.833 | 3721596.702 | 7.28  |
| LOCATION | L0000187 | VOLUME | 418289.832 | 3721587.448 | 7.36  |
| LOCATION | L0000188 | VOLUME | 418309.219 | 3721592.363 | 7.49  |
| LOCATION | L0000189 | VOLUME | 418328.605 | 3721597.278 | 7.57  |
| LOCATION | L0000190 | VOLUME | 418347.992 | 3721602.193 | 8.22  |
| LOCATION | L0000191 | VOLUME | 418345.455 | 3721592.957 | 7.92  |

|                                          |          |              |            |             |       |
|------------------------------------------|----------|--------------|------------|-------------|-------|
| LOCATION                                 | L0000192 | VOLUME       | 418326.061 | 3721588.072 | 7.04  |
| LOCATION                                 | L0000193 | VOLUME       | 418306.667 | 3721583.188 | 7.60  |
| LOCATION                                 | L0000194 | VOLUME       | 418300.066 | 3721572.733 | 7.60  |
| LOCATION                                 | L0000195 | VOLUME       | 418318.859 | 3721576.588 | 7.20  |
| LOCATION                                 | L0000196 | VOLUME       | 418338.194 | 3721581.706 | 7.68  |
| LOCATION                                 | L0000197 | VOLUME       | 418357.528 | 3721586.824 | 8.03  |
| LOCATION                                 | L0000198 | VOLUME       | 418357.997 | 3721576.674 | 8.07  |
| LOCATION                                 | L0000199 | VOLUME       | 418338.507 | 3721572.189 | 7.77  |
| LOCATION                                 | L0000200 | VOLUME       | 418319.016 | 3721567.704 | 7.68  |
| LOCATION                                 | L0000201 | VOLUME       | 418331.470 | 3721563.792 | 7.72  |
| LOCATION                                 | L0000202 | VOLUME       | 418351.154 | 3721567.335 | 8.00  |
| LOCATION                                 | L0000203 | VOLUME       | 418369.541 | 3721568.292 | 8.31  |
| LOCATION                                 | L0000204 | VOLUME       | 418361.566 | 3721559.996 | 8.16  |
| LOCATION                                 | L0000205 | VOLUME       | 418346.969 | 3721557.085 | 8.15  |
| LOCATION                                 | L0000206 | VOLUME       | 418364.792 | 3721550.713 | 8.30  |
| LOCATION                                 | L0000207 | VOLUME       | 418382.049 | 3721547.789 | 8.39  |
| LOCATION                                 | L0000208 | VOLUME       | 418374.147 | 3721540.158 | 8.14  |
| LOCATION                                 | L0000209 | VOLUME       | 418375.898 | 3721529.431 | 8.05  |
| LOCATION                                 | L0000210 | VOLUME       | 418392.727 | 3721526.499 | 8.57  |
| LOCATION                                 | L0000211 | VOLUME       | 418390.530 | 3721515.565 | 8.64  |
| LOCATION                                 | L0000212 | VOLUME       | 418401.899 | 3721502.649 | 8.70  |
| LOCATION                                 | L0000213 | VOLUME       | 418396.301 | 3721489.187 | 8.91  |
| LOCATION                                 | L0000214 | VOLUME       | 418404.886 | 3721482.692 | 8.89  |
| LOCATION                                 | L0000215 | VOLUME       | 418413.856 | 3721471.561 | 8.87  |
| LOCATION                                 | L0000216 | VOLUME       | 418401.680 | 3721464.054 | 9.27  |
| LOCATION                                 | L0000217 | VOLUME       | 418402.148 | 3721450.080 | 9.62  |
| LOCATION                                 | L0000218 | VOLUME       | 418419.275 | 3721449.410 | 9.31  |
| LOCATION                                 | L0000219 | VOLUME       | 418418.572 | 3721429.423 | 9.55  |
| LOCATION                                 | L0000220 | VOLUME       | 418417.868 | 3721409.435 | 10.08 |
| LOCATION                                 | L0000221 | VOLUME       | 418416.762 | 3721389.690 | 10.39 |
| LOCATION                                 | L0000222 | VOLUME       | 418401.002 | 3721391.754 | 10.38 |
| LOCATION                                 | L0000223 | VOLUME       | 418400.931 | 3721410.997 | 10.40 |
| LOCATION                                 | L0000224 | VOLUME       | 418402.725 | 3721430.916 | 9.86  |
| LOCATION                                 | L0000225 | VOLUME       | 418410.576 | 3721439.476 | 9.84  |
| LOCATION                                 | L0000226 | VOLUME       | 418409.849 | 3721419.489 | 10.22 |
| LOCATION                                 | L0000227 | VOLUME       | 418409.122 | 3721399.502 | 10.33 |
| ** End of LINE VOLUME Source ID = SLINE1 |          |              |            |             |       |
| ** Source Parameters **                  |          |              |            |             |       |
| ** LINE VOLUME Source ID = SLINE1        |          |              |            |             |       |
| SRCPARAM                                 | L0000001 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000002 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000003 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000004 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000005 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000006 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000007 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000008 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000009 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000010 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000011 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000012 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000013 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000014 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000015 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000016 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000017 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000018 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000019 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000020 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000021 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000022 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000023 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000024 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000025 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000026 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000027 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000028 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000029 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000030 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000031 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000032 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000033 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000034 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000035 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000036 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000037 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000038 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000039 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000040 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000041 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000042 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000043 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000044 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000045 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000046 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000047 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000048 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000049 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000050 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000051 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000052 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000053 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000054 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000055 | 0.0044052863 | 5.00       | 9.30        | 3.45  |
| SRCPARAM                                 | L0000056 | 0.0044052863 | 5.00       | 9.30        | 3.45  |

6



[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]



[illegible]





|          |           |       |   |   |   |   |   |   |   |   |   |   |
|----------|-----------|-------|---|---|---|---|---|---|---|---|---|---|
| EMISFACT | L00000014 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| EMISFACT | L00000014 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000015 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L00000015 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L00000015 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L00000015 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000016 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L00000016 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L00000016 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L00000017 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000017 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L00000017 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L00000017 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L00000017 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000018 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L00000018 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L00000018 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L00000018 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000019 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L00000019 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L00000019 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L00000019 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000020 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L00000020 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L00000020 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L00000020 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000021 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L00000021 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L00000021 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L00000021 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000022 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L00000022 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L00000022 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L00000022 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000023 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L00000023 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L00000023 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L00000023 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000024 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L00000024 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L00000024 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L00000024 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000025 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L00000025 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L00000025 | HRDOW | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L00000026 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L00000026 | HRDOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |





[illegible]

[illegible]

|          |          |       |   |   |     |   |   |   |   |   |   |   |
|----------|----------|-------|---|---|-----|---|---|---|---|---|---|---|
| EMISFACT | L0000109 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| EMISFACT | L0000109 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000110 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000110 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L0000110 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L0000110 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000111 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000111 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L0000111 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L0000111 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000112 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000112 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L0000112 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L0000112 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000113 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000113 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L0000113 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L0000113 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000114 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000114 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L0000114 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L0000114 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000115 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000115 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L0000115 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L0000115 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000116 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000116 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L0000116 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L0000116 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000117 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000117 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L0000117 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L0000117 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000118 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000118 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L0000118 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L0000118 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000118 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000119 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L0000119 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L0000119 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000120 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000120 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 1 |   |
| EMISFACT | L0000120 | HRDOW | 1 | 0 | 1   | 0 | 1 | 0 | 1 | 0 | 0 |   |
| EMISFACT | L0000120 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 |   |
| EMISFACT | L0000121 | HRDOW | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 1 |   |
| EMISFACT | L0000121 | HRDOW | 1 | 0 | 1</ |   |   |   |   |   |   |   |

[illegible]

[illegible]

[illegible]





27

[illegible]

29

[illegible]

31

[illegible]

[illegible]

[illegible]



[illegible]

```

EMISFACT L0000214 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000215 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000215 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000215 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000215 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000216 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000216 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000216 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000217 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000217 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000217 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000217 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000218 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000218 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000218 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000219 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000219 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000219 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000220 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000220 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000220 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000221 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000221 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000221 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000222 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000222 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000222 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000222 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000223 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000223 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000223 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000223 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000224 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000224 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000224 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000224 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000225 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000225 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000225 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000225 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000226 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000226 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000226 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000226 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000227 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000227 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000227 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "Big Canyon Phase 2.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE KSNA_v9.SFC
  PROFFILE KSNA_v9.PFL
  SURFDATA 93184 2012 KSNA_-_John_Wayn_International_Airport
  UAIRDATA 3190 2012
  PROFBASE 17.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE ANNUAL ALL "Big Canyon Phase 2.AD\AN00GALL.PLT" 31
  SUMMFILE "Big Canyon Phase 2.sum"
OU FINISHED

*** Message Summary For AERMOD Model Setup ***

----- Summary of Total Messages -----

A Total of          0 Fatal Error Message(s)

```

A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 3402 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 3402 MEOPEN: ADJ\_U\* Option for Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

```

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P ***
05/21/18
*** AERMET - VERSION 16216 *** ***
08:12:30

```

PAGE 1

```

*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

---

```

**Model Is Setup For Calculation of Average CONCentration Values.
  -- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 227 Source(s),
  for Total of 1 Urban Area(s):
  Urban Population = 3010759.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
  1. Stack-tip Downwash.
  2. Model Accounts for ELEvated Terrain Effects.
  3. Use Calms Processing Routine.
  4. Use Missing Data Processing Routine.
  5. No Exponential Decay.
  6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
  ADJ_U* - Use ADJ_U* BETA option for SBL in AERMET
  CCVR_Sub - Meteorological data includes CCVR substitutions
  TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: PM_10

**Model Calculates ANNUAL Averages Only

**This Run Includes: 227 Source(s); 1 Source Group(s); and 390 Receptor(s)

  with: 0 POINT(s), including
         0 POINTCAP(s) and 0 POINTHOR(s)
  and: 227 VOLUME source(s)
  and: 0 AREA type source(s)
  and: 0 LINE source(s)
  and: 0 OPENPIT source(s)
  and: 0 BUOYANT LINE source(s) with 0 line(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
  Model Outputs Tables of ANNUAL Averages by Receptor
  Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
  Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                m for Missing Hours
                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 17.00 ; Decay Coef. = 0.000 ; Rot. Angle =
0.0
               Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
               Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.8 MB of RAM.

**Detailed Error/Message File: Big Canyon Phase 2.err
**File for Summary of Results: Big Canyon Phase 2.sum

```

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 2  
\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>ID | NUMBER<br>PART.<br>CATS. | EMISSION RATE<br>(GRAMS/SEC) | X<br>(METERS) | Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) | RELEASE<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ<br>(METERS) | URBAN<br>SOURCE | EMISSION RATE<br>SCALAR VARY<br>BY |
|--------------|--------------------------|------------------------------|---------------|---------------|---------------------------|-------------------------------|-------------------------|-------------------------|-----------------|------------------------------------|
| L0000001     | 0                        | 0.44053E-02                  | 418200.2      | 3721596.7     | 7.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000002     | 0                        | 0.44053E-02                  | 418204.1      | 3721616.3     | 7.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000003     | 0                        | 0.44053E-02                  | 418209.9      | 3721634.9     | 6.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000004     | 0                        | 0.44053E-02                  | 418226.5      | 3721637.7     | 7.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000005     | 0                        | 0.44053E-02                  | 418245.4      | 3721631.3     | 6.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000006     | 0                        | 0.44053E-02                  | 418265.0      | 3721627.2     | 7.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000007     | 0                        | 0.44053E-02                  | 418284.6      | 3721623.2     | 7.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000008     | 0                        | 0.44053E-02                  | 418304.1      | 3721623.1     | 7.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000009     | 0                        | 0.44053E-02                  | 418323.4      | 3721628.4     | 8.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000010     | 0                        | 0.44053E-02                  | 418342.5      | 3721634.2     | 10.1                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000011     | 0                        | 0.44053E-02                  | 418361.6      | 3721640.0     | 14.0                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000012     | 0                        | 0.44053E-02                  | 418372.9      | 3721625.0     | 12.9                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000013     | 0                        | 0.44053E-02                  | 418383.5      | 3721608.0     | 12.3                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000014     | 0                        | 0.44053E-02                  | 418394.1      | 3721591.0     | 11.6                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000015     | 0                        | 0.44053E-02                  | 418404.2      | 3721573.7     | 12.3                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000016     | 0                        | 0.44053E-02                  | 418414.0      | 3721556.3     | 13.3                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000017     | 0                        | 0.44053E-02                  | 418421.2      | 3721537.7     | 11.3                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000018     | 0                        | 0.44053E-02                  | 418428.4      | 3721519.0     | 11.6                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000019     | 0                        | 0.44053E-02                  | 418436.4      | 3721500.7     | 12.4                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000020     | 0                        | 0.44053E-02                  | 418445.0      | 3721482.6     | 13.2                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000021     | 0                        | 0.44053E-02                  | 418452.8      | 3721464.4     | 13.0                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000022     | 0                        | 0.44053E-02                  | 418452.6      | 3721444.4     | 10.8                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000023     | 0                        | 0.44053E-02                  | 418451.7      | 3721424.4     | 10.2                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000024     | 0                        | 0.44053E-02                  | 418449.6      | 3721404.5     | 10.4                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000025     | 0                        | 0.44053E-02                  | 418447.6      | 3721384.7     | 10.5                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000026     | 0                        | 0.44053E-02                  | 418445.5      | 3721364.8     | 10.8                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000027     | 0                        | 0.44053E-02                  | 418429.4      | 3721353.2     | 10.5                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000028     | 0                        | 0.44053E-02                  | 418412.9      | 3721341.9     | 12.4                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000029     | 0                        | 0.44053E-02                  | 418397.9      | 3721350.2     | 12.9                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000030     | 0                        | 0.44053E-02                  | 418383.7      | 3721364.3     | 12.5                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000031     | 0                        | 0.44053E-02                  | 418370.8      | 3721379.5     | 12.2                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000032     | 0                        | 0.44053E-02                  | 418367.2      | 3721398.9     | 11.0                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000033     | 0                        | 0.44053E-02                  | 418369.9      | 3721418.7     | 10.1                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000034     | 0                        | 0.44053E-02                  | 418369.1      | 3721438.4     | 9.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000035     | 0                        | 0.44053E-02                  | 418367.0      | 3721458.1     | 9.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000036     | 0                        | 0.44053E-02                  | 418370.4      | 3721477.8     | 8.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000037     | 0                        | 0.44053E-02                  | 418361.6      | 3721494.7     | 8.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000038     | 0                        | 0.44053E-02                  | 418349.9      | 3721510.9     | 8.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000039     | 0                        | 0.44053E-02                  | 418333.5      | 3721522.0     | 8.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000040     | 0                        | 0.44053E-02                  | 418316.2      | 3721532.0     | 8.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 3  
\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>ID | NUMBER<br>PART.<br>CATS. | EMISSION RATE<br>(GRAMS/SEC) | X<br>(METERS) | Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) | RELEASE<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ<br>(METERS) | URBAN<br>SOURCE | EMISSION RATE<br>SCALAR VARY<br>BY |
|--------------|--------------------------|------------------------------|---------------|---------------|---------------------------|-------------------------------|-------------------------|-------------------------|-----------------|------------------------------------|
| L0000041     | 0                        | 0.44053E-02                  | 418298.0      | 3721535.0     | 7.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000042     | 0                        | 0.44053E-02                  | 418288.1      | 3721518.6     | 8.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000043     | 0                        | 0.44053E-02                  | 418272.5      | 3721515.1     | 8.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000044     | 0                        | 0.44053E-02                  | 418255.1      | 3721524.4     | 8.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000045     | 0                        | 0.44053E-02                  | 418240.5      | 3721537.8     | 8.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000046     | 0                        | 0.44053E-02                  | 418238.4      | 3721552.6     | 7.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000047     | 0                        | 0.44053E-02                  | 418255.1      | 3721563.3     | 7.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000048     | 0                        | 0.44053E-02                  | 418249.5      | 3721580.4     | 7.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000049     | 0                        | 0.44053E-02                  | 418238.3      | 3721592.8     | 7.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000050     | 0                        | 0.44053E-02                  | 418222.9      | 3721582.3     | 7.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000051     | 0                        | 0.44053E-02                  | 418210.1      | 3721581.7     | 8.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000052     | 0                        | 0.44053E-02                  | 418205.7      | 3721598.5     | 8.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000053     | 0                        | 0.44053E-02                  | 418210.7      | 3721617.9     | 6.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000054     | 0                        | 0.44053E-02                  | 418221.3      | 3721632.1     | 6.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000055     | 0                        | 0.44053E-02                  | 418240.7      | 3721627.1     | 6.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000056     | 0                        | 0.44053E-02                  | 418260.1      | 3721622.2     | 7.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000057     | 0                        | 0.44053E-02                  | 418279.4      | 3721617.2     | 7.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000058     | 0                        | 0.44053E-02                  | 418298.8      | 3721615.0     | 7.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000059     | 0                        | 0.44053E-02                  | 418318.0      | 3721620.5     | 8.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000060     | 0                        | 0.44053E-02                  | 418337.2      | 3721626.0     | 8.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000061     | 0                        | 0.44053E-02                  | 418356.4      | 3721631.6     | 11.0                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000062     | 0                        | 0.44053E-02                  | 418368.6      | 3721618.9     | 9.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000063     | 0                        | 0.44053E-02                  | 418379.0      | 3721601.8     | 9.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000064     | 0                        | 0.44053E-02                  | 418389.4      | 3721584.8     | 9.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000065     | 0                        | 0.44053E-02                  | 418399.8      | 3721567.7     | 9.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000066     | 0                        | 0.44053E-02                  | 418409.0      | 3721550.0     | 10.2                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000067     | 0                        | 0.44053E-02                  | 418417.0      | 3721531.7     | 9.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000068     | 0                        | 0.44053E-02                  | 418425.0      | 3721513.3     | 10.1                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000069     | 0                        | 0.44053E-02                  | 418433.0      | 3721495.0     | 10.7                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000070     | 0                        | 0.44053E-02                  | 418441.0      | 3721476.6     | 11.6                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000071     | 0                        | 0.44053E-02                  | 418445.8      | 3721457.8     | 10.6                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000072     | 0                        | 0.44053E-02                  | 418444.3      | 3721437.8     | 10.1                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000073     | 0                        | 0.44053E-02                  | 418442.8      | 3721417.9     | 10.2                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000074     | 0                        | 0.44053E-02                  | 418441.2      | 3721398.0     | 10.2                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000075     | 0                        | 0.44053E-02                  | 418439.7      | 3721378.0     | 10.5                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000076     | 0                        | 0.44053E-02                  | 418430.7      | 3721362.3     | 10.8                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000077     | 0                        | 0.44053E-02                  | 418414.4      | 3721350.6     | 10.9                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000078     | 0                        | 0.44053E-02                  | 418399.8      | 3721357.5     | 11.4                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000079     | 0                        | 0.44053E-02                  | 418385.9      | 3721371.8     | 10.7                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000080     | 0                        | 0.44053E-02                  | 418375.0      | 3721387.6     | 10.6                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 4  
\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>ID | NUMBER<br>PART.<br>CATS. | EMISSION RATE<br>(GRAMS/SEC) | X<br>(METERS) | Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) | RELEASE<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ<br>(METERS) | URBAN<br>SOURCE | EMISSION RATE<br>SCALAR VARY<br>BY |
|--------------|--------------------------|------------------------------|---------------|---------------|---------------------------|-------------------------------|-------------------------|-------------------------|-----------------|------------------------------------|
| L0000081     | 0                        | 0.44053E-02                  | 418375.4      | 3721407.5     | 10.0                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000082     | 0                        | 0.44053E-02                  | 418378.1      | 3721427.3     | 9.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000083     | 0                        | 0.44053E-02                  | 418374.1      | 3721446.7     | 9.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000084     | 0                        | 0.44053E-02                  | 418373.6      | 3721466.1     | 9.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000085     | 0                        | 0.44053E-02                  | 418377.9      | 3721485.7     | 9.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000086     | 0                        | 0.44053E-02                  | 418366.2      | 3721501.7     | 8.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000087     | 0                        | 0.44053E-02                  | 418354.2      | 3721517.6     | 8.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000088     | 0                        | 0.44053E-02                  | 418337.0      | 3721527.3     | 8.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000089     | 0                        | 0.44053E-02                  | 418319.0      | 3721536.0     | 8.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000090     | 0                        | 0.44053E-02                  | 418300.9      | 3721544.0     | 7.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000091     | 0                        | 0.44053E-02                  | 418285.0      | 3721532.9     | 7.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000092     | 0                        | 0.44053E-02                  | 418275.0      | 3721523.9     | 7.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000093     | 0                        | 0.44053E-02                  | 418257.7      | 3721533.9     | 7.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000094     | 0                        | 0.44053E-02                  | 418243.0      | 3721547.0     | 7.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000095     | 0                        | 0.44053E-02                  | 418259.9      | 3721556.8     | 7.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000096     | 0                        | 0.44053E-02                  | 418264.2      | 3721570.3     | 7.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000097     | 0                        | 0.44053E-02                  | 418254.7      | 3721587.9     | 7.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000098     | 0                        | 0.44053E-02                  | 418243.6      | 3721601.8     | 7.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000099     | 0                        | 0.44053E-02                  | 418224.2      | 3721596.7     | 7.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000100     | 0                        | 0.44053E-02                  | 418211.8      | 3721590.1     | 7.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000101     | 0                        | 0.44053E-02                  | 418216.0      | 3721608.7     | 7.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000102     | 0                        | 0.44053E-02                  | 418223.7      | 3721624.0     | 7.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000103     | 0                        | 0.44053E-02                  | 418243.0      | 3721618.6     | 7.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000104     | 0                        | 0.44053E-02                  | 418262.3      | 3721613.3     | 7.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000105     | 0                        | 0.44053E-02                  | 418281.5      | 3721608.0     | 7.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000106     | 0                        | 0.44053E-02                  | 418300.8      | 3721607.8     | 7.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000107     | 0                        | 0.44053E-02                  | 418320.1      | 3721613.1     | 7.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000108     | 0                        | 0.44053E-02                  | 418339.4      | 3721618.4     | 8.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000109     | 0                        | 0.44053E-02                  | 418357.8      | 3721621.3     | 9.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000110     | 0                        | 0.44053E-02                  | 418368.1      | 3721604.2     | 8.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000111     | 0                        | 0.44053E-02                  | 418378.4      | 3721587.0     | 8.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000112     | 0                        | 0.44053E-02                  | 418388.6      | 3721569.9     | 8.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000113     | 0                        | 0.44053E-02                  | 418398.9      | 3721552.7     | 8.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000114     | 0                        | 0.44053E-02                  | 418407.0      | 3721534.4     | 8.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000115     | 0                        | 0.44053E-02                  | 418414.9      | 3721516.0     | 9.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000116     | 0                        | 0.44053E-02                  | 418422.7      | 3721497.6     | 9.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000117     | 0                        | 0.44053E-02                  | 418430.6      | 3721479.2     | 9.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000118     | 0                        | 0.44053E-02                  | 418436.5      | 3721460.5     | 9.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000119     | 0                        | 0.44053E-02                  | 418435.0      | 3721440.6     | 9.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000120     | 0                        | 0.44053E-02                  | 418433.6      | 3721420.6     | 10.1                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 5  
\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>ID | NUMBER<br>PART.<br>CATS. | EMISSION RATE<br>(GRAMS/SEC) | X<br>(METERS) | Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) | RELEASE<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ<br>(METERS) | URBAN<br>SOURCE | EMISSION RATE<br>SCALAR VARY<br>BY |
|--------------|--------------------------|------------------------------|---------------|---------------|---------------------------|-------------------------------|-------------------------|-------------------------|-----------------|------------------------------------|
| L0000121     | 0                        | 0.44053E-02                  | 418432.1      | 3721400.7     | 10.2                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000122     | 0                        | 0.44053E-02                  | 418430.7      | 3721380.7     | 10.5                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000123     | 0                        | 0.44053E-02                  | 418419.4      | 3721366.2     | 10.7                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000124     | 0                        | 0.44053E-02                  | 418403.9      | 3721365.3     | 10.6                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000125     | 0                        | 0.44053E-02                  | 418389.2      | 3721378.9     | 10.4                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000126     | 0                        | 0.44053E-02                  | 418382.7      | 3721395.5     | 10.2                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000127     | 0                        | 0.44053E-02                  | 418385.2      | 3721415.3     | 9.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000128     | 0                        | 0.44053E-02                  | 418386.0      | 3721435.0     | 9.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000129     | 0                        | 0.44053E-02                  | 418380.3      | 3721454.2     | 9.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000130     | 0                        | 0.44053E-02                  | 418382.5      | 3721473.6     | 9.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000131     | 0                        | 0.44053E-02                  | 418386.9      | 3721492.9     | 9.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000132     | 0                        | 0.44053E-02                  | 418373.9      | 3721508.1     | 8.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000133     | 0                        | 0.44053E-02                  | 418360.9      | 3721523.3     | 8.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000134     | 0                        | 0.44053E-02                  | 418344.5      | 3721533.9     | 8.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000135     | 0                        | 0.44053E-02                  | 418326.2      | 3721542.0     | 8.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000136     | 0                        | 0.44053E-02                  | 418307.9      | 3721550.1     | 7.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000137     | 0                        | 0.44053E-02                  | 418290.2      | 3721545.0     | 7.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000138     | 0                        | 0.44053E-02                  | 418276.1      | 3721532.3     | 7.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000139     | 0                        | 0.44053E-02                  | 418259.6      | 3721543.6     | 7.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000140     | 0                        | 0.44053E-02                  | 418268.4      | 3721553.8     | 7.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000141     | 0                        | 0.44053E-02                  | 418280.8      | 3721564.7     | 7.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000142     | 0                        | 0.44053E-02                  | 418269.5      | 3721581.2     | 7.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000143     | 0                        | 0.44053E-02                  | 418258.1      | 3721597.6     | 7.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000144     | 0                        | 0.44053E-02                  | 418244.1      | 3721608.2     | 6.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000145     | 0                        | 0.44053E-02                  | 418225.1      | 3721602.0     | 7.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000146     | 0                        | 0.44053E-02                  | 418224.5      | 3721615.1     | 7.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000147     | 0                        | 0.44053E-02                  | 418235.2      | 3721614.3     | 6.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000148     | 0                        | 0.44053E-02                  | 418253.6      | 3721611.9     | 6.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000149     | 0                        | 0.44053E-02                  | 418260.8      | 3721602.8     | 7.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000150     | 0                        | 0.44053E-02                  | 418272.3      | 3721603.0     | 7.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000151     | 0                        | 0.44053E-02                  | 418290.5      | 3721599.2     | 7.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000152     | 0                        | 0.44053E-02                  | 418309.7      | 3721601.1     | 7.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000153     | 0                        | 0.44053E-02                  | 418329.0      | 3721606.3     | 7.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000154     | 0                        | 0.44053E-02                  | 418348.4      | 3721611.5     | 8.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000155     | 0                        | 0.44053E-02                  | 418360.5      | 3721599.3     | 8.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000156     | 0                        | 0.44053E-02                  | 418370.5      | 3721582.0     | 8.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000157     | 0                        | 0.44053E-02                  | 418380.4      | 3721564.6     | 8.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000158     | 0                        | 0.44053E-02                  | 418390.4      | 3721547.3     | 8.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000159     | 0                        | 0.44053E-02                  | 418398.8      | 3721529.2     | 8.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000160     | 0                        | 0.44053E-02                  | 418406.3      | 3721510.7     | 8.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>ID | NUMBER<br>PART.<br>CATS. | EMISSION RATE<br>(GRAMS/SEC) | X<br>(METERS) | Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) | RELEASE<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ<br>(METERS) | URBAN<br>SOURCE | EMISSION RATE<br>SCALAR VARY<br>BY |
|--------------|--------------------------|------------------------------|---------------|---------------|---------------------------|-------------------------------|-------------------------|-------------------------|-----------------|------------------------------------|
| L0000161     | 0                        | 0.44053E-02                  | 418413.8      | 3721492.1     | 9.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000162     | 0                        | 0.44053E-02                  | 418421.3      | 3721473.6     | 9.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000163     | 0                        | 0.44053E-02                  | 418425.0      | 3721454.4     | 9.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000164     | 0                        | 0.44053E-02                  | 418423.9      | 3721434.4     | 9.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000165     | 0                        | 0.44053E-02                  | 418422.8      | 3721414.4     | 9.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000166     | 0                        | 0.44053E-02                  | 418421.7      | 3721394.5     | 10.3                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000167     | 0                        | 0.44053E-02                  | 418415.1      | 3721377.2     | 10.7                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000168     | 0                        | 0.44053E-02                  | 418399.8      | 3721381.7     | 10.3                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000169     | 0                        | 0.44053E-02                  | 418392.2      | 3721397.5     | 10.2                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000170     | 0                        | 0.44053E-02                  | 418394.9      | 3721417.3     | 10.1                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000171     | 0                        | 0.44053E-02                  | 418397.6      | 3721437.2     | 9.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000172     | 0                        | 0.44053E-02                  | 418389.5      | 3721455.4     | 9.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000173     | 0                        | 0.44053E-02                  | 418389.2      | 3721474.6     | 9.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000174     | 0                        | 0.44053E-02                  | 418393.0      | 3721494.2     | 8.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000175     | 0                        | 0.44053E-02                  | 418384.6      | 3721510.4     | 8.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000176     | 0                        | 0.44053E-02                  | 418371.1      | 3721525.2     | 8.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000177     | 0                        | 0.44053E-02                  | 418357.6      | 3721540.0     | 8.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000178     | 0                        | 0.44053E-02                  | 418340.6      | 3721549.3     | 7.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000179     | 0                        | 0.44053E-02                  | 418321.6      | 3721555.6     | 7.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000180     | 0                        | 0.44053E-02                  | 418303.0      | 3721558.2     | 7.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000181     | 0                        | 0.44053E-02                  | 418285.4      | 3721548.6     | 7.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000182     | 0                        | 0.44053E-02                  | 418270.3      | 3721546.8     | 7.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000183     | 0                        | 0.44053E-02                  | 418285.8      | 3721559.1     | 7.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000184     | 0                        | 0.44053E-02                  | 418289.7      | 3721571.9     | 7.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000185     | 0                        | 0.44053E-02                  | 418275.2      | 3721585.7     | 7.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000186     | 0                        | 0.44053E-02                  | 418278.8      | 3721596.7     | 7.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000187     | 0                        | 0.44053E-02                  | 418289.8      | 3721587.4     | 7.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000188     | 0                        | 0.44053E-02                  | 418309.2      | 3721592.4     | 7.5                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000189     | 0                        | 0.44053E-02                  | 418328.6      | 3721597.3     | 7.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000190     | 0                        | 0.44053E-02                  | 418348.0      | 3721602.2     | 8.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000191     | 0                        | 0.44053E-02                  | 418345.5      | 3721593.0     | 7.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000192     | 0                        | 0.44053E-02                  | 418326.1      | 3721588.1     | 7.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000193     | 0                        | 0.44053E-02                  | 418306.7      | 3721583.2     | 7.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000194     | 0                        | 0.44053E-02                  | 418300.1      | 3721572.7     | 7.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000195     | 0                        | 0.44053E-02                  | 418318.9      | 3721576.6     | 7.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000196     | 0                        | 0.44053E-02                  | 418338.2      | 3721581.7     | 7.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000197     | 0                        | 0.44053E-02                  | 418357.5      | 3721586.8     | 8.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000198     | 0                        | 0.44053E-02                  | 418358.0      | 3721576.7     | 8.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000199     | 0                        | 0.44053E-02                  | 418338.5      | 3721572.2     | 7.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000200     | 0                        | 0.44053E-02                  | 418319.0      | 3721567.7     | 7.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 7  
\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>ID | NUMBER<br>PART.<br>CATS. | EMISSION RATE<br>(GRAMS/SEC) | X<br>(METERS) | Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) | RELEASE<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ<br>(METERS) | URBAN<br>SOURCE | EMISSION RATE<br>SCALAR VARY<br>BY |
|--------------|--------------------------|------------------------------|---------------|---------------|---------------------------|-------------------------------|-------------------------|-------------------------|-----------------|------------------------------------|
| L0000201     | 0                        | 0.44053E-02                  | 418331.5      | 3721563.8     | 7.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000202     | 0                        | 0.44053E-02                  | 418351.2      | 3721567.3     | 8.0                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000203     | 0                        | 0.44053E-02                  | 418369.5      | 3721568.3     | 8.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000204     | 0                        | 0.44053E-02                  | 418361.6      | 3721560.0     | 8.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000205     | 0                        | 0.44053E-02                  | 418347.0      | 3721557.1     | 8.2                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000206     | 0                        | 0.44053E-02                  | 418364.8      | 3721550.7     | 8.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000207     | 0                        | 0.44053E-02                  | 418382.0      | 3721547.8     | 8.4                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000208     | 0                        | 0.44053E-02                  | 418374.1      | 3721540.2     | 8.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000209     | 0                        | 0.44053E-02                  | 418375.9      | 3721529.4     | 8.1                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000210     | 0                        | 0.44053E-02                  | 418392.7      | 3721526.5     | 8.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000211     | 0                        | 0.44053E-02                  | 418390.5      | 3721515.6     | 8.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000212     | 0                        | 0.44053E-02                  | 418401.9      | 3721502.6     | 8.7                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000213     | 0                        | 0.44053E-02                  | 418396.3      | 3721489.2     | 8.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000214     | 0                        | 0.44053E-02                  | 418404.9      | 3721482.7     | 8.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000215     | 0                        | 0.44053E-02                  | 418413.9      | 3721471.6     | 8.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000216     | 0                        | 0.44053E-02                  | 418401.7      | 3721464.1     | 9.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000217     | 0                        | 0.44053E-02                  | 418402.1      | 3721450.1     | 9.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000218     | 0                        | 0.44053E-02                  | 418419.3      | 3721449.4     | 9.3                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000219     | 0                        | 0.44053E-02                  | 418418.6      | 3721429.4     | 9.6                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000220     | 0                        | 0.44053E-02                  | 418417.9      | 3721409.4     | 10.1                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000221     | 0                        | 0.44053E-02                  | 418416.8      | 3721389.7     | 10.4                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000222     | 0                        | 0.44053E-02                  | 418401.0      | 3721391.8     | 10.4                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000223     | 0                        | 0.44053E-02                  | 418400.9      | 3721411.0     | 10.4                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000224     | 0                        | 0.44053E-02                  | 418402.7      | 3721430.9     | 9.9                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000225     | 0                        | 0.44053E-02                  | 418410.6      | 3721439.5     | 9.8                       | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000226     | 0                        | 0.44053E-02                  | 418409.8      | 3721419.5     | 10.2                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |
| L0000227     | 0                        | 0.44053E-02                  | 418409.1      | 3721399.5     | 10.3                      | 5.00                          | 9.30                    | 3.45                    | YES             | HRDOW                              |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 8  
\*\*\* MODELOPTS: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

| SRCGROUP ID | SOURCE IDs                                                                   |
|-------------|------------------------------------------------------------------------------|
| -----       | -----                                                                        |
| ALL         | L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , |
| L0000008    | ,                                                                            |
|             | L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , |
| L0000016    | ,                                                                            |
|             | L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , |
| L0000024    | ,                                                                            |
|             | L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , |
| L0000032    | ,                                                                            |
|             | L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , |
| L0000040    | ,                                                                            |
|             | L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , |
| L0000048    | ,                                                                            |
|             | L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , |
| L0000056    | ,                                                                            |
|             | L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , |
| L0000064    | ,                                                                            |
|             | L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , |
| L0000072    | ,                                                                            |
|             | L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , |
| L0000080    | ,                                                                            |
|             | L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , |
| L0000088    | ,                                                                            |
|             | L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , |
| L0000096    | ,                                                                            |
|             | L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 , |
| L0000104    | ,                                                                            |
|             | L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 , |
| L0000112    | ,                                                                            |
|             | L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , L0000119 , |
| L0000120    | ,                                                                            |
|             | L0000121 , L0000122 , L0000123 , L0000124 , L0000125 , L0000126 , L0000127 , |
| L0000128    | ,                                                                            |
|             | L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , |
| L0000136    | ,                                                                            |
|             | L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , |
| L0000144    | ,                                                                            |
|             | L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , |
| L0000152    | ,                                                                            |
|             | L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , |
| L0000160    | ,                                                                            |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
 05/21/18  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 08:12:30 \*\*\*

PAGE 9

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

| SRCGROUP ID | SOURCE IDs                                                                   |
|-------------|------------------------------------------------------------------------------|
| -----       | -----                                                                        |
| L0000168    | L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , |
| L0000176    | L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , |
| L0000184    | L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , |
| L0000192    | L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , |
| L0000200    | L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , |
| L0000208    | L0000201 , L0000202 , L0000203 , L0000204 , L0000205 , L0000206 , L0000207 , |
| L0000216    | L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , |
| L0000224    | L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , |
|             | L0000225 , L0000226 , L0000227 ,                                             |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
 05/21/18  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 08:12:30 \*\*\*

PAGE 10  
 \*\*\* MODELOPTS: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

| URBAN ID | URBAN POP                                                                    | SOURCE IDs                                                        |
|----------|------------------------------------------------------------------------------|-------------------------------------------------------------------|
| -----    | -----                                                                        | -----                                                             |
| L0000007 | 3010759.                                                                     | L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , |
| L0000008 | ,                                                                            |                                                                   |
| L0000016 | L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , |                                                                   |
| L0000024 | L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , |                                                                   |
| L0000032 | L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , |                                                                   |
| L0000040 | L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , |                                                                   |
| L0000048 | L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , |                                                                   |
| L0000056 | L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , |                                                                   |
| L0000064 | L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , |                                                                   |
| L0000072 | L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , |                                                                   |
| L0000080 | L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , |                                                                   |
| L0000088 | L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , |                                                                   |
| L0000096 | L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , |                                                                   |
| L0000104 | L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 , |                                                                   |
| L0000112 | L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 , |                                                                   |
| L0000120 | L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , L0000119 , |                                                                   |
| L0000128 | L0000121 , L0000122 , L0000123 , L0000124 , L0000125 , L0000126 , L0000127 , |                                                                   |
| L0000136 | L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , |                                                                   |
| L0000144 | L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , |                                                                   |
| L0000152 | L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , |                                                                   |
| L0000160 | L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , |                                                                   |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
 05/21/18  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 08:12:30 \*\*\*

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

| URBAN ID | URBAN POP                                                                    | SOURCE IDs |
|----------|------------------------------------------------------------------------------|------------|
| -----    | -----                                                                        | -----      |
| L0000168 | L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , |            |
| L0000176 | L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , |            |
| L0000184 | L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , |            |
| L0000192 | L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , |            |
| L0000200 | L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , |            |
| L0000208 | L0000201 , L0000202 , L0000203 , L0000204 , L0000205 , L0000206 , L0000207 , |            |
| L0000216 | L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , |            |
| L0000224 | L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , |            |
|          | L0000225 , L0000226 , L0000227 ,                                             |            |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 12

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000001   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 13

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000002   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 14

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000003   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 15

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000004   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 16

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000005   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000006   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 18

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000007   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 19

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000008   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 20

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000009   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 21

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000010   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 22

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000011   |           | ; SOURCE TYPE = VOLUME |           |        |           |        |           |        |           |        |           |        |           |        |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 23

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000012   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 24

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000013   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 25

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000014   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 26

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000015   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 27

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000016   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 28

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000017   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 29

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000018   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 30

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000019   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 31

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000020   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 32

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000021   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 33

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000022   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 34

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000023   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 35

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000024   |           | ; SOURCE TYPE = VOLUME |           |        |           |        |           |        |           |        |           |        |           |        |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 36

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000025   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 37

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000026   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 38

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000027   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 39

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000028   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 40

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000029   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 41

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000030 ; SOURCE TYPE = VOLUME : |           |        |           |        |           |        |           |        |           |        |           |        |           |        |           |    |           |
|-----------------------------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|----|-----------|
| SCALAR                                        | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |    |           |
| DAY OF WEEK = WEEKDAY                         |           |        |           |        |           |        |           |        |           |        |           |        |           |        |           |    |           |
| 1                                             | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |    |           |
| 9                                             | .1000E+01 | 10     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 | 17 | .1000E+01 |
| 18                                            | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |    |           |
| DAY OF WEEK = SATURDAY                        |           |        |           |        |           |        |           |        |           |        |           |        |           |        |           |    |           |
| 1                                             | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 | 9  | .1000E+01 |
| 10                                            | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 | 17     | .1000E+01 | 18 | .0000E+00 |
| 19                                            | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |    |           |
| DAY OF WEEK = SUNDAY                          |           |        |           |        |           |        |           |        |           |        |           |        |           |        |           |    |           |
| 1                                             | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 | 9  | .0000E+00 |
| 10                                            | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 | 17     | .0000E+00 | 18 | .0000E+00 |
| 19                                            | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |    |           |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 42

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000031   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 43

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000032   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 44

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000033   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 45

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000034   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 46

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000035   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 47

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000036   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 48

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000037   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 49

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000038   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 50

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000039   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 51

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000040   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 52

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000041   |           | ; SOURCE TYPE = VOLUME |           |        |           |        |           |        |           |        |           |        |           |        |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 53

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000042   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 54

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000043   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 55

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000044   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 56

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000045   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 57

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000046   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 58

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000047   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000048   |           | ; SOURCE TYPE = VOLUME |           |        |           |        |           |        |           |        |           |        |           |        |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 60

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000049   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 61

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000050   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 62

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000051   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 63

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000052   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 64

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000053   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 65

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000054   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 66

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000055   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 67

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000056   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 68

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000057   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 69

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000058   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 70

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000059   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 71

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000060   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 72

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000061   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 73

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000062   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 74

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000063   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 75

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000064   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 76

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000065   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 77

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000066   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 78

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000067   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 79

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000068   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 80

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000069   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 81

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000070   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 82

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000071   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 83

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000072   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 84

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000073   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 85

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000074   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 86

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000075   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 87

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000076   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 88

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000077   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 89

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000078   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 90

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000079   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 91

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000080   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 92

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000081   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 93

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000082   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 94

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000083   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 95

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000084   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 96

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000085   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 97

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000086   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 98

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000087   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 99

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000088   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 100

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000089   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 101

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000090   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 102

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000091   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |        |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|--------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 |        |        |
| 8                      | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 |        |        |
| 16                     | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 |        |        |
| 8                      | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 |        |        |
| 16                     | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 |        |        |
| 8                      | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 |        |        |
| 16                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 103

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000092   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 104

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000093   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 105

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000094   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 106

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000095   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 107

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000096   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 108

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000097   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 109

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000098   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 110

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000099   |           | ; SOURCE TYPE = VOLUME |           | :  |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|----|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HR                     | SCALAR    | HR                     | SCALAR    | HR | SCALAR    | HR     | SCALAR    | HR     | SCALAR    | HR     | SCALAR    | HR     | SCALAR    | HR     | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |    |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3  | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11 | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19 | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |    |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3  | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11 | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19 | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |    |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3  | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11 | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19 | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 111

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000100 ; SOURCE TYPE = VOLUME : |           |        |           |        |           |        |           |        |           |        |           |        |           |        |           |
|-----------------------------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                                        | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY                         |           |        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                                             | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                                             | .1000E+01 | 10     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                                            | .1000E+01 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY                        |           |        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                                             | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                                             | .1000E+01 | 10     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                                            | .1000E+01 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY                          |           |        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                                             | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                                             | .0000E+00 | 10     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                                            | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 112

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000101   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 113

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000102   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 114

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000103   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 115

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000104   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 116

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000105   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 117

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000106   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 118

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000107   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 119

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000108   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 120

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000109   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 121

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000110   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 122

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000111   |           | ; SOURCE TYPE = VOLUME |           |        |           |        |           |        |           |        |           |        |           |        |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 123

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000112   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 124

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000113   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 125

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000114   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 126

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000115   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 127

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000116   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 128

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000117   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 129

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000118   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 130

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000119   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 131

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000120   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 132

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000121   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 133

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000122   |           | ; SOURCE TYPE = VOLUME |           |        |           |        |           |        |           |        |           |        |           |        |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 134

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000123   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 135

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000124   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 136

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000125   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 137

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000126   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 138

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000127   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 139

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000128   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 140

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000129   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 141

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000130   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 142

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000131   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 143

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000132   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 144

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000133   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 145

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000134   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 146

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000135   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 147

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000136   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 148

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000137   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 149

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000138   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 150

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000139   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 151

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000140   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 152

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000141   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 153

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000142   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 154

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000143   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 155

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000144   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 156

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000145   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 157

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000146   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 158

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000147   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 159

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000148   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 160

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000149   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMOD - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 161

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000150   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 162

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000151   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 163

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000152   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 164

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000153   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 165

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000154   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 166

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000155   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 167

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000156   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 168

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000157   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 169

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000158   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 170

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000159   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 171

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000160   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 172

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000161   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 173

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000162   |           | ; SOURCE TYPE = VOLUME |           | :  |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |        |
|------------------------|-----------|------------------------|-----------|----|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|--------|
| HR                     | SCALAR    | HR                     | SCALAR    | HR | SCALAR    | HR     | SCALAR    | HR     | SCALAR    | HR     | SCALAR    | HR     | SCALAR    | HR     | SCALAR |
| DAY OF WEEK = WEEKDAY  |           |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3  | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 |        |        |
| 8                      | .1000E+01 |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11 | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 |        |        |
| 16                     | .1000E+01 |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19 | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |
| DAY OF WEEK = SATURDAY |           |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3  | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 |        |        |
| 8                      | .1000E+01 |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11 | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 |        |        |
| 16                     | .1000E+01 |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19 | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |
| DAY OF WEEK = SUNDAY   |           |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3  | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 |        |        |
| 8                      | .0000E+00 |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11 | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 |        |        |
| 16                     | .0000E+00 |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19 | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |    |           |        |           |        |           |        |           |        |           |        |        |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 174

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000163   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 175

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000164   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 176

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000165   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 177

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000166   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 178

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000167   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 179

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000168   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 180

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000169   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 181

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000170 ; SOURCE TYPE = VOLUME : |           | SCALAR |           |        |           |        |           |        |           |        |           |        |           |        |           |    |           |
|-----------------------------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|----|-----------|
| SCALAR                                        | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |    |           |
| DAY OF WEEK = WEEKDAY                         |           |        |           |        |           |        |           |        |           |        |           |        |           |        |           |    |           |
| 1                                             | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |    |           |
| 9                                             | .1000E+01 | 10     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 | 17 | .1000E+01 |
| 18                                            | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |    |           |
| DAY OF WEEK = SATURDAY                        |           |        |           |        |           |        |           |        |           |        |           |        |           |        |           |    |           |
| 1                                             | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 | 9  | .1000E+01 |
| 10                                            | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 | 17     | .1000E+01 | 18 | .0000E+00 |
| 19                                            | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |    |           |
| DAY OF WEEK = SUNDAY                          |           |        |           |        |           |        |           |        |           |        |           |        |           |        |           |    |           |
| 1                                             | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 | 9  | .0000E+00 |
| 10                                            | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 | 17     | .0000E+00 | 18 | .0000E+00 |
| 19                                            | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |    |           |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 182

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000171   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 183

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000172   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 184

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000173   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 185

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000174   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |        |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|--------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 |        |        |
| 8                      | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 |        |        |
| 16                     | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 |        |        |
| 8                      | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 |        |        |
| 16                     | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 |        |        |
| 8                      | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 |        |        |
| 16                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 186

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000175   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 187

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000176   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 188

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000177   |           | ; SOURCE TYPE = VOLUME |           |        |           |        |           |        |           |        |           |        |           |        |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 189

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000178   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 190

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000179   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 191

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000180   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |        |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|--------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 |        |        |
| 8                      | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 |        |        |
| 16                     | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 |        |        |
| 8                      | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 |        |        |
| 16                     | .1000E+01 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 |        |        |
| 8                      | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 |        |        |
| 16                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 |        |        |
| 24                     | .0000E+00 |                        |           |       |           |        |           |        |           |        |           |        |           |        |        |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 192

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000181   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 193

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000182   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 194

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000183   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 195

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000184   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 196

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000185   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 197

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000186   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 198

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000187   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 199

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000188   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 200

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000189   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 201

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000190   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 202

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000191   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 203

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000192   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 204

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000193   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 205

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000194   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 206

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000195   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 207

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000196   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 208

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000197   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 209

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000198   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 210

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000199   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 211

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000200   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 212

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000201   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 213

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000202   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 214

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000203   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 215

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000204   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 216

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000205   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 217

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000206   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 218

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000207   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 219

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000208   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 220

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000209   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 221

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000210   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 222

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = 10000211   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 223

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000212   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 224

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000213   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 225

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000214   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 226

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000215   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 227

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000216   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 228

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000217   |           | ; SOURCE TYPE = VOLUME |           | :      |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 229

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000218   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 230

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000219   |           | ; SOURCE TYPE = VOLUME |           | :     |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           | SCALAR |           |
|------------------------|-----------|------------------------|-----------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| HRDOW                  | SCALAR    | HRDOW                  | SCALAR    | HRDOW | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    | HRDOW  | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11    | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |       |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3     | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11    | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19    | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 231

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000220   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 232

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000221   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 233

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000222   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 234

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000223   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 235

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000224   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 236

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000225   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 237

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000226   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 238

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

| SOURCE ID = L0000227   |           | ; SOURCE TYPE = VOLUME |           | :      |           | :      |           | :      |           | :      |           | :      |           | :      |           |
|------------------------|-----------|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| SCALAR                 | SCALAR    | SCALAR                 | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    |
| DAY OF WEEK = WEEKDAY  |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SATURDAY |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .1000E+01 | 7      | .1000E+01 | 8      | .1000E+01 |
| 9                      | .1000E+01 | 10                     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |
| 17                     | .1000E+01 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |
| DAY OF WEEK = SUNDAY   |           |                        |           |        |           |        |           |        |           |        |           |        |           |        |           |
| 1                      | .0000E+00 | 2                      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |
| 9                      | .0000E+00 | 10                     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |
| 17                     | .0000E+00 | 18                     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 239

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

|       |                        |       |       |       |                        |       |       |
|-------|------------------------|-------|-------|-------|------------------------|-------|-------|
| 0.0); | ( 418671.0, 3720843.4, | 53.4, | 53.4, | 0.0); | ( 418721.0, 3720843.4, | 53.8, | 56.2, |
| 0.0); | ( 418771.0, 3720843.4, | 56.1, | 56.1, | 0.0); | ( 418821.0, 3720843.4, | 56.8, | 61.2, |
| 0.0); | ( 418871.0, 3720843.4, | 60.8, | 64.2, | 0.0); | ( 418921.0, 3720843.4, | 64.2, | 64.2, |
| 0.0); | ( 418621.0, 3720893.4, | 46.2, | 53.9, | 0.0); | ( 418671.0, 3720893.4, | 48.0, | 60.5, |
| 0.0); | ( 418721.0, 3720893.4, | 53.5, | 53.5, | 0.0); | ( 418771.0, 3720893.4, | 53.0, | 61.3, |
| 0.0); | ( 418821.0, 3720893.4, | 60.8, | 60.8, | 0.0); | ( 418871.0, 3720893.4, | 60.8, | 60.8, |
| 0.0); | ( 418921.0, 3720893.4, | 61.0, | 61.0, | 0.0); | ( 418621.0, 3720943.4, | 47.0, | 47.0, |
| 0.0); | ( 418671.0, 3720943.4, | 46.9, | 60.9, | 0.0); | ( 418721.0, 3720943.4, | 49.1, | 61.2, |
| 0.0); | ( 418771.0, 3720943.4, | 53.8, | 61.5, | 0.0); | ( 418821.0, 3720943.4, | 56.7, | 61.5, |
| 0.0); | ( 418871.0, 3720943.4, | 60.7, | 60.7, | 0.0); | ( 418921.0, 3720943.4, | 61.3, | 61.3, |
| 0.0); | ( 418021.0, 3720993.4, | 11.0, | 43.3, | 0.0); | ( 418071.0, 3720993.4, | 32.5, | 32.9, |
| 0.0); | ( 418121.0, 3720993.4, | 32.9, | 38.4, | 0.0); | ( 418171.0, 3720993.4, | 34.6, | 38.5, |
| 0.0); | ( 418221.0, 3720993.4, | 30.9, | 39.1, | 0.0); | ( 418271.0, 3720993.4, | 31.7, | 39.1, |
| 0.0); | ( 418321.0, 3720993.4, | 33.1, | 39.1, | 0.0); | ( 418371.0, 3720993.4, | 34.2, | 41.5, |
| 0.0); | ( 418421.0, 3720993.4, | 36.2, | 38.9, | 0.0); | ( 418571.0, 3720993.4, | 39.8, | 47.2, |
| 0.0); | ( 418621.0, 3720993.4, | 39.8, | 60.9, | 0.0); | ( 418671.0, 3720993.4, | 47.4, | 47.4, |
| 0.0); | ( 418721.0, 3720993.4, | 45.0, | 62.1, | 0.0); | ( 418771.0, 3720993.4, | 54.0, | 54.0, |
| 0.0); | ( 418821.0, 3720993.4, | 54.2, | 62.1, | 0.0); | ( 418871.0, 3720993.4, | 59.9, | 62.1, |
| 0.0); | ( 418921.0, 3720993.4, | 56.6, | 62.1, | 0.0); | ( 418021.0, 3721043.4, | 17.6, | 38.9, |
| 0.0); | ( 418071.0, 3721043.4, | 33.2, | 37.2, | 0.0); | ( 418121.0, 3721043.4, | 34.4, | 34.4, |
| 0.0); | ( 418171.0, 3721043.4, | 36.9, | 38.1, | 0.0); | ( 418221.0, 3721043.4, | 36.6, | 38.9, |
| 0.0); | ( 418271.0, 3721043.4, | 35.4, | 39.1, | 0.0); | ( 418321.0, 3721043.4, | 35.8, | 39.0, |
| 0.0); | ( 418371.0, 3721043.4, | 37.1, | 39.5, | 0.0); | ( 418421.0, 3721043.4, | 38.3, | 38.3, |
| 0.0); | ( 418471.0, 3721043.4, | 36.1, | 38.7, | 0.0); | ( 418571.0, 3721043.4, | 36.5, | 47.6, |
| 0.0); | ( 418621.0, 3721043.4, | 39.1, | 54.2, | 0.0); | ( 418671.0, 3721043.4, | 39.4, | 62.1, |
| 0.0); | ( 418721.0, 3721043.4, | 40.4, | 62.1, | 0.0); | ( 418771.0, 3721043.4, | 50.0, | 62.1, |
| 0.0); | ( 418821.0, 3721043.4, | 54.3, | 54.3, | 0.0); | ( 418871.0, 3721043.4, | 54.3, | 62.1, |
| 0.0); | ( 418921.0, 3721043.4, | 45.3, | 64.4, | 0.0); | ( 418021.0, 3721093.4, | 5.3,  | 43.3, |
| 0.0); | ( 418071.0, 3721093.4, | 34.1, | 37.5, | 0.0); | ( 418121.0, 3721093.4, | 37.6, | 38.2, |
| 0.0); | ( 418171.0, 3721093.4, | 34.9, | 34.9, | 0.0); | ( 418221.0, 3721093.4, | 37.5, | 37.5, |
| 0.0); | ( 418271.0, 3721093.4, | 36.0, | 38.6, | 0.0); | ( 418321.0, 3721093.4, | 35.9, | 35.9, |
| 0.0); | ( 418371.0, 3721093.4, | 38.6, | 38.6, | 0.0); | ( 418421.0, 3721093.4, | 36.7, | 39.8, |
| 0.0); | ( 418471.0, 3721093.4, | 38.9, | 38.9, | 0.0); | ( 418521.0, 3721093.4, | 32.4, | 39.8, |
| 0.0); | ( 418621.0, 3721093.4, | 38.4, | 38.4, | 0.0); | ( 418671.0, 3721093.4, | 39.0, | 61.6, |
| 0.0); | ( 418721.0, 3721093.4, | 37.8, | 62.1, | 0.0); | ( 418771.0, 3721093.4, | 34.8, | 64.4, |
| 0.0); | ( 418821.0, 3721093.4, | 42.6, | 62.1, | 0.0); | ( 418871.0, 3721093.4, | 41.1, | 62.1, |
| 0.0); | ( 418921.0, 3721093.4, | 28.4, | 65.1, | 0.0); | ( 418021.0, 3721143.4, | 3.0,  | 39.1, |
| 0.0); | ( 418071.0, 3721143.4, | 31.8, | 37.8, | 0.0); | ( 418121.0, 3721143.4, | 37.2, | 37.2, |
| 0.0); | ( 418171.0, 3721143.4, | 36.8, | 37.4, | 0.0); | ( 418221.0, 3721143.4, | 34.5, | 34.5, |
| 0.0); | ( 418271.0, 3721143.4, | 35.1, | 37.0, | 0.0); | ( 418321.0, 3721143.4, | 34.7, | 35.5, |
| 0.0); | ( 418371.0, 3721143.4, | 35.5, | 35.5, | 0.0); | ( 418421.0, 3721143.4, | 35.7, | 39.0, |
| 0.0); | ( 418471.0, 3721143.4, | 35.8, | 38.9, | 0.0); | ( 418521.0, 3721143.4, | 24.5, | 54.2, |

```

0.0); ( 418671.0, 3721143.4,      37.0,      54.4,      0.0);      ( 418721.0, 3721143.4,      35.8,      62.1,
0.0); ( 418771.0, 3721143.4,      32.5,      62.1,      0.0);      ( 418821.0, 3721143.4,      29.7,      64.4,
0.0); ( 418871.0, 3721143.4,      26.9,      64.7,      0.0);      ( 418921.0, 3721143.4,      22.9,      66.4,
0.0);

```

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
 05/21/18  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 08:12:30

PAGE 240

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

|       |                        |       |       |       |                        |       |       |
|-------|------------------------|-------|-------|-------|------------------------|-------|-------|
| 0.0); | ( 418071.0, 3721193.4, | 28.4, | 38.2, | 0.0); | ( 418121.0, 3721193.4, | 33.7, | 37.9, |
| 0.0); | ( 418171.0, 3721193.4, | 33.5, | 37.5, | 0.0); | ( 418221.0, 3721193.4, | 36.2, | 36.8, |
| 0.0); | ( 418271.0, 3721193.4, | 36.3, | 36.3, | 0.0); | ( 418321.0, 3721193.4, | 35.0, | 35.0, |
| 0.0); | ( 418371.0, 3721193.4, | 36.9, | 37.5, | 0.0); | ( 418421.0, 3721193.4, | 36.2, | 38.4, |
| 0.0); | ( 418471.0, 3721193.4, | 29.2, | 39.8, | 0.0); | ( 418671.0, 3721193.4, | 32.0, | 62.1, |
| 0.0); | ( 418721.0, 3721193.4, | 33.9, | 62.1, | 0.0); | ( 418771.0, 3721193.4, | 30.9, | 62.1, |
| 0.0); | ( 418821.0, 3721193.4, | 27.1, | 64.4, | 0.0); | ( 418871.0, 3721193.4, | 24.2, | 64.7, |
| 0.0); | ( 418921.0, 3721193.4, | 23.2, | 64.8, | 0.0); | ( 418021.0, 3721243.4, | 3.1,  | 39.1, |
| 0.0); | ( 418071.0, 3721243.4, | 28.3, | 28.3, | 0.0); | ( 418121.0, 3721243.4, | 30.3, | 35.3, |
| 0.0); | ( 418171.0, 3721243.4, | 35.0, | 35.0, | 0.0); | ( 418221.0, 3721243.4, | 35.2, | 35.2, |
| 0.0); | ( 418271.0, 3721243.4, | 34.6, | 37.1, | 0.0); | ( 418321.0, 3721243.4, | 36.6, | 38.3, |
| 0.0); | ( 418371.0, 3721243.4, | 38.0, | 38.0, | 0.0); | ( 418421.0, 3721243.4, | 32.3, | 39.1, |
| 0.0); | ( 418721.0, 3721243.4, | 34.4, | 34.4, | 0.0); | ( 418771.0, 3721243.4, | 29.4, | 62.1, |
| 0.0); | ( 418821.0, 3721243.4, | 23.9, | 64.4, | 0.0); | ( 418871.0, 3721243.4, | 23.7, | 64.4, |
| 0.0); | ( 418921.0, 3721243.4, | 26.0, | 62.1, | 0.0); | ( 418021.0, 3721293.4, | 5.2,  | 39.1, |
| 0.0); | ( 418071.0, 3721293.4, | 30.1, | 36.2, | 0.0); | ( 418121.0, 3721293.4, | 32.7, | 35.5, |
| 0.0); | ( 418171.0, 3721293.4, | 33.5, | 33.5, | 0.0); | ( 418221.0, 3721293.4, | 33.5, | 33.5, |
| 0.0); | ( 418271.0, 3721293.4, | 35.4, | 36.7, | 0.0); | ( 418321.0, 3721293.4, | 34.1, | 38.3, |
| 0.0); | ( 418371.0, 3721293.4, | 32.9, | 38.9, | 0.0); | ( 418721.0, 3721293.4, | 18.9, | 62.1, |
| 0.0); | ( 418771.0, 3721293.4, | 18.5, | 62.1, | 0.0); | ( 418821.0, 3721293.4, | 18.7, | 69.7, |
| 0.0); | ( 418871.0, 3721293.4, | 22.1, | 69.7, | 0.0); | ( 418921.0, 3721293.4, | 35.0, | 35.0, |
| 0.0); | ( 418071.0, 3721343.4, | 33.8, | 36.2, | 0.0); | ( 418121.0, 3721343.4, | 33.6, | 35.9, |
| 0.0); | ( 418171.0, 3721343.4, | 33.3, | 34.7, | 0.0); | ( 418221.0, 3721343.4, | 36.3, | 36.3, |
| 0.0); | ( 418271.0, 3721343.4, | 36.6, | 36.6, | 0.0); | ( 418321.0, 3721343.4, | 33.2, | 36.7, |
| 0.0); | ( 418370.3, 3721343.7, | 23.1, | 39.1, | 0.0); | ( 418771.0, 3721343.4, | 15.8, | 69.7, |
| 0.0); | ( 418821.0, 3721343.4, | 18.6, | 69.7, | 0.0); | ( 418871.0, 3721343.4, | 20.5, | 69.9, |
| 0.0); | ( 418921.0, 3721343.4, | 34.7, | 34.7, | 0.0); | ( 418121.0, 3721393.4, | 31.6, | 31.6, |
| 0.0); | ( 418171.0, 3721393.4, | 31.2, | 36.7, | 0.0); | ( 418221.0, 3721393.4, | 34.4, | 36.8, |
| 0.0); | ( 418271.0, 3721393.4, | 31.7, | 37.5, | 0.0); | ( 418321.0, 3721393.4, | 29.7, | 36.8, |
| 0.0); | ( 418521.0, 3721393.4, | 24.4, | 30.6, | 0.0); | ( 418571.0, 3721393.4, | 25.4, | 29.8, |
| 0.0); | ( 418621.0, 3721393.4, | 22.6, | 33.9, | 0.0); | ( 418671.0, 3721393.4, | 18.0, | 53.9, |
| 0.0); | ( 418771.0, 3721393.4, | 21.2, | 68.7, | 0.0); | ( 418821.0, 3721393.4, | 21.6, | 69.7, |
| 0.0); | ( 418871.0, 3721393.4, | 23.8, | 69.9, | 0.0); | ( 418921.0, 3721393.4, | 24.2, | 69.9, |
| 0.0); | ( 418221.0, 3721443.4, | 23.6, | 37.5, | 0.0); | ( 418271.0, 3721443.4, | 27.9, | 37.5, |
| 0.0); | ( 418521.0, 3721443.4, | 28.7, | 28.7, | 0.0); | ( 418571.0, 3721443.4, | 29.7, | 33.9, |
| 0.0); | ( 418621.0, 3721443.4, | 29.9, | 29.9, | 0.0); | ( 418671.0, 3721443.4, | 28.7, | 30.2, |
| 0.0); | ( 418821.0, 3721443.4, | 29.8, | 31.8, | 0.0); | ( 418871.0, 3721443.4, | 27.5, | 69.7, |
| 0.0); | ( 418921.0, 3721443.4, | 28.3, | 69.9, | 0.0); | ( 418521.0, 3721493.4, | 30.0, | 33.7, |
| 0.0); | ( 418571.0, 3721493.4, | 33.7, | 33.7, | 0.0); | ( 418621.0, 3721493.4, | 31.4, | 33.8, |
| 0.0); | ( 418671.0, 3721493.4, | 31.3, | 31.3, | 0.0); | ( 418721.0, 3721493.4, | 30.4, | 36.7, |
| 0.0); | ( 418821.0, 3721493.4, | 30.4, | 68.7, | 0.0); | ( 418871.0, 3721493.4, | 35.4, | 68.7, |
| 0.0); | ( 418921.0, 3721493.4, | 36.6, | 69.7, | 0.0); | ( 418471.0, 3721543.4, | 30.7, | 31.3, |

```

0.0); ( 418521.0, 3721543.4, 31.4, 31.4, 0.0); ( 418571.0, 3721543.4, 33.8, 33.8,
0.0); ( 418621.0, 3721543.4, 33.6, 33.6, 0.0); ( 418671.0, 3721543.4, 34.2, 34.2,
0.0); ( 418721.0, 3721543.4, 36.1, 36.1, 0.0); ( 418771.0, 3721543.4, 36.4, 36.4,
0.0);

```

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 241

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

|       |                        |       |       |       |                        |       |       |
|-------|------------------------|-------|-------|-------|------------------------|-------|-------|
| 0.0); | ( 418871.0, 3721543.4, | 33.1, | 69.7, | 0.0); | ( 418921.0, 3721543.4, | 34.9, | 69.7, |
| 0.0); | ( 418471.0, 3721593.4, | 33.1, | 33.1, | 0.0); | ( 418521.0, 3721593.4, | 32.8, | 35.4, |
| 0.0); | ( 418571.0, 3721593.4, | 33.0, | 35.5, | 0.0); | ( 418621.0, 3721593.4, | 35.1, | 35.5, |
| 0.0); | ( 418671.0, 3721593.4, | 34.9, | 34.9, | 0.0); | ( 418721.0, 3721593.4, | 36.0, | 36.0, |
| 0.0); | ( 418771.0, 3721593.4, | 36.7, | 36.7, | 0.0); | ( 418821.0, 3721593.4, | 37.1, | 37.1, |
| 0.0); | ( 418421.0, 3721643.4, | 33.2, | 33.2, | 0.0); | ( 418471.0, 3721643.4, | 34.3, | 34.3, |
| 0.0); | ( 418521.0, 3721643.4, | 35.4, | 35.4, | 0.0); | ( 418571.0, 3721643.4, | 35.2, | 35.2, |
| 0.0); | ( 418621.0, 3721643.4, | 35.5, | 35.5, | 0.0); | ( 418671.0, 3721643.4, | 35.8, | 35.8, |
| 0.0); | ( 418721.0, 3721643.4, | 35.4, | 35.4, | 0.0); | ( 418771.0, 3721643.4, | 37.5, | 37.5, |
| 0.0); | ( 418821.0, 3721643.4, | 37.4, | 37.4, | 0.0); | ( 418871.0, 3721643.4, | 37.2, | 69.4, |
| 0.0); | ( 418221.0, 3721693.4, | 26.1, | 33.0, | 0.0); | ( 418271.0, 3721693.4, | 27.8, | 32.8, |
| 0.0); | ( 418321.0, 3721693.4, | 29.1, | 34.7, | 0.0); | ( 418371.0, 3721693.4, | 30.9, | 34.7, |
| 0.0); | ( 418421.0, 3721693.4, | 33.3, | 33.3, | 0.0); | ( 418471.0, 3721693.4, | 34.1, | 34.1, |
| 0.0); | ( 418521.0, 3721693.4, | 34.5, | 34.5, | 0.0); | ( 418571.0, 3721693.4, | 34.6, | 34.6, |
| 0.0); | ( 418621.0, 3721693.4, | 35.2, | 35.2, | 0.0); | ( 418671.0, 3721693.4, | 34.9, | 34.9, |
| 0.0); | ( 418721.0, 3721693.4, | 34.9, | 34.9, | 0.0); | ( 418771.0, 3721693.4, | 36.6, | 36.6, |
| 0.0); | ( 418821.0, 3721693.4, | 36.1, | 69.4, | 0.0); | ( 418871.0, 3721693.4, | 38.9, | 69.4, |
| 0.0); | ( 418921.0, 3721693.4, | 39.0, | 69.4, | 0.0); | ( 418171.0, 3721743.4, | 26.4, | 33.0, |
| 0.0); | ( 418221.0, 3721743.4, | 29.9, | 33.0, | 0.0); | ( 418271.0, 3721743.4, | 31.9, | 31.9, |
| 0.0); | ( 418321.0, 3721743.4, | 33.4, | 34.7, | 0.0); | ( 418371.0, 3721743.4, | 33.8, | 33.8, |
| 0.0); | ( 418421.0, 3721743.4, | 34.7, | 34.7, | 0.0); | ( 418471.0, 3721743.4, | 33.9, | 33.9, |
| 0.0); | ( 418521.0, 3721743.4, | 33.9, | 33.9, | 0.0); | ( 418571.0, 3721743.4, | 34.2, | 34.2, |
| 0.0); | ( 418621.0, 3721743.4, | 34.9, | 35.6, | 0.0); | ( 418671.0, 3721743.4, | 35.4, | 35.4, |
| 0.0); | ( 418721.0, 3721743.4, | 34.9, | 34.9, | 0.0); | ( 418771.0, 3721743.4, | 35.7, | 35.7, |
| 0.0); | ( 418821.0, 3721743.4, | 37.1, | 69.4, | 0.0); | ( 418871.0, 3721743.4, | 38.2, | 69.4, |
| 0.0); | ( 418921.0, 3721743.4, | 43.3, | 69.4, | 0.0); | ( 418171.0, 3721793.4, | 28.0, | 33.1, |
| 0.0); | ( 418221.0, 3721793.4, | 33.1, | 33.1, | 0.0); | ( 418271.0, 3721793.4, | 33.0, | 33.0, |
| 0.0); | ( 418321.0, 3721793.4, | 35.0, | 35.0, | 0.0); | ( 418371.0, 3721793.4, | 35.6, | 35.6, |
| 0.0); | ( 418421.0, 3721793.4, | 33.6, | 33.6, | 0.0); | ( 418471.0, 3721793.4, | 33.9, | 33.9, |
| 0.0); | ( 418521.0, 3721793.4, | 34.7, | 34.7, | 0.0); | ( 418571.0, 3721793.4, | 34.8, | 34.8, |
| 0.0); | ( 418621.0, 3721793.4, | 35.8, | 35.8, | 0.0); | ( 418671.0, 3721793.4, | 35.7, | 35.7, |
| 0.0); | ( 418721.0, 3721793.4, | 35.9, | 35.9, | 0.0); | ( 418771.0, 3721793.4, | 35.5, | 35.5, |
| 0.0); | ( 418821.0, 3721793.4, | 38.6, | 69.3, | 0.0); | ( 418871.0, 3721793.4, | 38.3, | 69.4, |
| 0.0); | ( 418921.0, 3721793.4, | 43.2, | 69.4, | 0.0); | ( 418171.0, 3721843.4, | 25.8, | 33.2, |
| 0.0); | ( 418221.0, 3721843.4, | 31.4, | 31.4, | 0.0); | ( 418271.0, 3721843.4, | 34.3, | 34.3, |
| 0.0); | ( 418321.0, 3721843.4, | 34.8, | 34.8, | 0.0); | ( 418371.0, 3721843.4, | 33.9, | 36.0, |
| 0.0); | ( 418421.0, 3721843.4, | 34.3, | 34.3, | 0.0); | ( 418471.0, 3721843.4, | 35.1, | 35.1, |
| 0.0); | ( 418521.0, 3721843.4, | 35.2, | 35.2, | 0.0); | ( 418571.0, 3721843.4, | 35.2, | 35.2, |
| 0.0); | ( 418621.0, 3721843.4, | 35.5, | 35.5, | 0.0); | ( 418671.0, 3721843.4, | 36.0, | 36.0, |
| 0.0); | ( 418721.0, 3721843.4, | 36.0, | 36.0, | 0.0); | ( 418771.0, 3721843.4, | 35.7, | 35.7, |
| 0.0); | ( 418821.0, 3721843.4, | 38.1, | 69.3, | 0.0); | ( 418871.0, 3721843.4, | 38.5, | 69.4, |
| 0.0); | ( 418921.0, 3721843.4, | 42.6, | 69.4, | 0.0); | ( 418021.0, 3721893.4, | 23.3, | 30.9, |

```

0.0); ( 418071.0, 3721893.4,      27.3,      29.1,      0.0); ( 418121.0, 3721893.4,      28.9,      28.9,
0.0); ( 418171.0, 3721893.4,      27.0,      32.4,      0.0); ( 418221.0, 3721893.4,      31.8,      31.8,
0.0); ( 418271.0, 3721893.4,      34.7,      34.7,      0.0); ( 418321.0, 3721893.4,      35.4,      35.4,
0.0);

```

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 242

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

|       |                        |       |       |       |                        |       |       |
|-------|------------------------|-------|-------|-------|------------------------|-------|-------|
| 0.0); | ( 418371.0, 3721893.4, | 34.2, | 34.2, | 0.0); | ( 418421.0, 3721893.4, | 34.4, | 34.4, |
| 0.0); | ( 418471.0, 3721893.4, | 35.0, | 35.0, | 0.0); | ( 418521.0, 3721893.4, | 35.3, | 35.3, |
| 0.0); | ( 418571.0, 3721893.4, | 35.9, | 35.9, | 0.0); | ( 418621.0, 3721893.4, | 35.9, | 35.9, |
| 0.0); | ( 418671.0, 3721893.4, | 36.2, | 36.2, | 0.0); | ( 418721.0, 3721893.4, | 36.1, | 36.1, |
| 0.0); | ( 418771.0, 3721893.4, | 35.8, | 38.2, | 0.0); | ( 418821.0, 3721893.4, | 37.6, | 69.3, |
| 0.0); | ( 418871.0, 3721893.4, | 40.4, | 69.4, | 0.0); | ( 418921.0, 3721893.4, | 44.1, | 69.4, |
| 0.0); | ( 417971.0, 3721943.4, | 23.2, | 30.7, | 0.0); | ( 418021.0, 3721943.4, | 27.3, | 30.9, |
| 0.0); | ( 418071.0, 3721943.4, | 30.4, | 30.4, | 0.0); | ( 418121.0, 3721943.4, | 30.7, | 30.7, |
| 0.0); | ( 418171.0, 3721943.4, | 28.5, | 33.6, | 0.0); | ( 418221.0, 3721943.4, | 29.1, | 34.1, |
| 0.0); | ( 418271.0, 3721943.4, | 33.8, | 33.8, | 0.0); | ( 418321.0, 3721943.4, | 33.8, | 33.8, |
| 0.0); | ( 418371.0, 3721943.4, | 34.1, | 34.1, | 0.0); | ( 418421.0, 3721943.4, | 34.3, | 34.3, |
| 0.0); | ( 418471.0, 3721943.4, | 34.8, | 34.8, | 0.0); | ( 418521.0, 3721943.4, | 35.2, | 35.2, |
| 0.0); | ( 418571.0, 3721943.4, | 35.8, | 35.8, | 0.0); | ( 418621.0, 3721943.4, | 35.8, | 35.8, |
| 0.0); | ( 418671.0, 3721943.4, | 35.7, | 35.7, | 0.0); | ( 418721.0, 3721943.4, | 36.0, | 36.0, |
| 0.0); | ( 418771.0, 3721943.4, | 36.1, | 38.1, | 0.0); | ( 418821.0, 3721943.4, | 37.3, | 69.3, |
| 0.0); | ( 418871.0, 3721943.4, | 44.5, | 45.6, | 0.0); | ( 418921.0, 3721943.4, | 44.8, | 69.3, |
| 0.0); | ( 417921.0, 3721993.4, | 21.5, | 34.1, | 0.0); | ( 417971.0, 3721993.4, | 27.5, | 27.5, |
| 0.0); | ( 418021.0, 3721993.4, | 29.9, | 29.9, | 0.0); | ( 418071.0, 3721993.4, | 33.3, | 34.3, |
| 0.0); | ( 418121.0, 3721993.4, | 34.7, | 34.7, | 0.0); | ( 418171.0, 3721993.4, | 33.4, | 33.4, |
| 0.0); | ( 418221.0, 3721993.4, | 32.0, | 33.3, | 0.0); | ( 418271.0, 3721993.4, | 34.1, | 34.1, |
| 0.0); | ( 418321.0, 3721993.4, | 34.1, | 34.1, | 0.0); | ( 418371.0, 3721993.4, | 34.2, | 34.2, |
| 0.0); | ( 418421.0, 3721993.4, | 34.4, | 34.4, | 0.0); | ( 418471.0, 3721993.4, | 34.7, | 34.7, |
| 0.0); | ( 418521.0, 3721993.4, | 35.1, | 35.1, | 0.0); | ( 418571.0, 3721993.4, | 35.3, | 35.3, |
| 0.0); | ( 418621.0, 3721993.4, | 35.7, | 35.7, | 0.0); | ( 418671.0, 3721993.4, | 35.9, | 35.9, |
| 0.0); | ( 418721.0, 3721993.4, | 36.0, | 36.0, | 0.0); | ( 418771.0, 3721993.4, | 37.0, | 38.7, |
| 0.0); | ( 418821.0, 3721993.4, | 37.7, | 69.1, | 0.0); | ( 418871.0, 3721993.4, | 45.9, | 46.0, |
| 0.0); | ( 418921.0, 3721993.4, | 45.5, | 69.3, | 0.0); | ( 417871.0, 3722043.4, | 14.1, | 36.0, |
| 0.0); | ( 417921.0, 3722043.4, | 23.2, | 34.1, | 0.0); | ( 417971.0, 3722043.4, | 26.2, | 34.3, |
| 0.0); | ( 418021.0, 3722043.4, | 32.1, | 34.2, | 0.0); | ( 418071.0, 3722043.4, | 34.1, | 34.1, |
| 0.0); | ( 418121.0, 3722043.4, | 32.9, | 36.4, | 0.0); | ( 418171.0, 3722043.4, | 34.0, | 35.5, |
| 0.0); | ( 418221.0, 3722043.4, | 34.0, | 34.0, | 0.0); | ( 418271.0, 3722043.4, | 33.6, | 33.6, |
| 0.0); | ( 418321.0, 3722043.4, | 34.3, | 34.3, | 0.0); | ( 418371.0, 3722043.4, | 34.4, | 34.4, |
| 0.0); | ( 418421.0, 3722043.4, | 34.6, | 34.6, | 0.0); | ( 418471.0, 3722043.4, | 34.8, | 34.8, |
| 0.0); | ( 418521.0, 3722043.4, | 35.3, | 35.3, | 0.0); | ( 418571.0, 3722043.4, | 35.2, | 35.2, |
| 0.0); | ( 418621.0, 3722043.4, | 35.3, | 35.3, | 0.0); | ( 418671.0, 3722043.4, | 35.7, | 35.7, |
| 0.0); | ( 418721.0, 3722043.4, | 35.9, | 35.9, | 0.0); | ( 418771.0, 3722043.4, | 39.4, | 39.4, |
| 0.0); | ( 418821.0, 3722043.4, | 39.2, | 55.5, | 0.0); | ( 418871.0, 3722043.4, | 46.4, | 46.4, |
| 0.0); | ( 418921.0, 3722043.4, | 46.3, | 55.5, | 0.0); | ( 417871.0, 3722093.4, | 21.7, | 32.6, |
| 0.0); | ( 417921.0, 3722093.4, | 25.5, | 32.7, | 0.0); | ( 417971.0, 3722093.4, | 28.9, | 33.2, |
| 0.0); | ( 418021.0, 3722093.4, | 32.8, | 32.8, | 0.0); | ( 418071.0, 3722093.4, | 34.3, | 36.0, |
| 0.0); | ( 418121.0, 3722093.4, | 33.8, | 36.4, | 0.0); | ( 418171.0, 3722093.4, | 33.8, | 33.8, |
| 0.0); | ( 418221.0, 3722093.4, | 34.5, | 34.5, | 0.0); | ( 418271.0, 3722093.4, | 34.5, | 35.5, |



```

0.0);
0.0); ( 418321.0, 3722093.4, 36.2, 36.2, 0.0); ( 418371.0, 3722093.4, 34.6, 34.6,
0.0); ( 418421.0, 3722093.4, 34.8, 34.8, 0.0); ( 418471.0, 3722093.4, 34.9, 34.9,
0.0); ( 418521.0, 3722093.4, 35.2, 35.2, 0.0); ( 418571.0, 3722093.4, 35.2, 35.2,
0.0);

```

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 243

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

|                              |       |       |       |                        |       |       |
|------------------------------|-------|-------|-------|------------------------|-------|-------|
| 0.0); ( 418621.0, 3722093.4, | 35.5, | 35.5, | 0.0); | ( 418671.0, 3722093.4, | 35.3, | 35.3, |
| 0.0); ( 418721.0, 3722093.4, | 35.7, | 41.2, | 0.0); | ( 418771.0, 3722093.4, | 40.4, | 40.4, |
| 0.0); ( 418821.0, 3722093.4, | 40.1, | 56.6, | 0.0); | ( 418871.0, 3722093.4, | 46.8, | 55.5, |
| 0.0); ( 418921.0, 3722093.4, | 46.8, | 58.7, | 0.0); | ( 417821.0, 3722143.4, | 21.3, | 23.7, |
| 0.0); ( 417871.0, 3722143.4, | 24.1, | 32.6, | 0.0); | ( 417921.0, 3722143.4, | 28.2, | 32.7, |
| 0.0); ( 417971.0, 3722143.4, | 32.7, | 32.7, | 0.0); | ( 418021.0, 3722143.4, | 32.5, | 35.5, |
| 0.0); ( 418071.0, 3722143.4, | 35.6, | 35.6, | 0.0); | ( 418121.0, 3722143.4, | 33.8, | 33.8, |
| 0.0); ( 418171.0, 3722143.4, | 34.6, | 34.6, | 0.0); | ( 418221.0, 3722143.4, | 33.4, | 33.5, |
| 0.0); ( 418271.0, 3722143.4, | 33.6, | 36.3, | 0.0); | ( 418321.0, 3722143.4, | 35.9, | 35.9, |
| 0.0); ( 418371.0, 3722143.4, | 35.3, | 38.6, | 0.0); | ( 418421.0, 3722143.4, | 38.2, | 38.8, |
| 0.0); ( 418471.0, 3722143.4, | 35.2, | 35.2, | 0.0); | ( 418521.0, 3722143.4, | 35.2, | 35.2, |
| 0.0); ( 418571.0, 3722143.4, | 35.3, | 35.3, | 0.0); | ( 418621.0, 3722143.4, | 35.4, | 35.4, |
| 0.0); ( 418671.0, 3722143.4, | 35.8, | 35.8, | 0.0); | ( 418721.0, 3722143.4, | 36.6, | 41.6, |
| 0.0); ( 418771.0, 3722143.4, | 41.2, | 41.2, | 0.0); | ( 418821.0, 3722143.4, | 41.2, | 59.8, |
| 0.0); ( 418871.0, 3722143.4, | 46.9, | 55.5, | 0.0); | ( 418921.0, 3722143.4, | 47.4, | 60.1, |
| 0.0);                        |       |       |       |                        |       |       |

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 245

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: KSNA\_v9.SFC Met Version:  
16216  
Profile file: KSNA\_v9.PFL  
Surface format: FREE  
Profile format: FREE  
Surface station no.: 93184 Upper air station no.: 3190  
Name: KSNA - JOHN\_WAYN\_INTERNATIONAL\_AIRPORT Name: UNKNOWN  
Year: 2012 Year: 2012

First 24 hours of scalar data

| YR | MO | DY | JDY | HR | H0     | U*     | W*     | DT/DZ  | ZICNV | ZIMCH | M-O      | LEN  | Z0   | BOWEN | ALBEDO | REF  | WS  | WD    | HT  | REF | TA | HT |
|----|----|----|-----|----|--------|--------|--------|--------|-------|-------|----------|------|------|-------|--------|------|-----|-------|-----|-----|----|----|
| 12 | 01 | 01 | 1   | 01 | -4.5   | 0.082  | -9.000 | -9.000 | -999. | 56.   | 11.0     | 0.12 | 2.65 | 1.00  | 0.87   | 62.  | 5.8 | 283.8 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 02 | -3.5   | 0.073  | -9.000 | -9.000 | -999. | 47.   | 9.9      | 0.12 | 2.65 | 1.00  | 0.77   | 27.  | 5.8 | 283.1 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 03 | -3.5   | 0.073  | -9.000 | -9.000 | -999. | 47.   | 9.9      | 0.12 | 2.65 | 1.00  | 0.77   | 336. | 5.8 | 283.1 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 04 | -3.3   | 0.070  | -9.000 | -9.000 | -999. | 45.   | 9.7      | 0.12 | 2.65 | 1.00  | 0.74   | 34.  | 5.8 | 283.1 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 05 | -3.0   | 0.068  | -9.000 | -9.000 | -999. | 42.   | 9.4      | 0.12 | 2.65 | 1.00  | 0.70   | 154. | 5.8 | 282.5 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 06 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.12 | 2.65 | 1.00  | 0.00   | 0.   | 5.8 | 282.0 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 07 | -2.0   | 0.059  | -9.000 | -9.000 | -999. | 34.   | 9.0      | 0.12 | 2.65 | 1.00  | 0.55   | 343. | 5.8 | 281.4 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 08 | -2.6   | 0.066  | -9.000 | -9.000 | -999. | 40.   | 9.7      | 0.12 | 2.65 | 0.53  | 0.69   | 25.  | 5.8 | 281.4 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 09 | 21.6   | 0.133  | 0.252  | 0.010  | 27.   | 116.  | -9.9     | 0.12 | 2.65 | 0.31  | 1.03   | 344. | 5.8 | 282.5 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 10 | 115.6  | 0.162  | 0.713  | 0.008  | 114.  | 156.  | -3.3     | 0.12 | 2.65 | 0.24  | 1.06   | 233. | 5.8 | 286.4 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 11 | 160.9  | 0.126  | 1.129  | 0.005  | 325.  | 108.  | -1.1     | 0.12 | 2.65 | 0.21  | 0.67   | 261. | 5.8 | 291.4 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 12 | 187.0  | 0.138  | 1.467  | 0.005  | 614.  | 123.  | -1.3     | 0.12 | 2.65 | 0.20  | 0.75   | 252. | 5.8 | 294.9 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 13 | 186.9  | 0.189  | 1.755  | 0.005  | 1051. | 197.  | -3.3     | 0.12 | 2.65 | 0.20  | 1.23   | 280. | 5.8 | 297.5 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 14 | 168.3  | 0.247  | 1.857  | 0.005  | 1383. | 295.  | -8.1     | 0.12 | 2.65 | 0.21  | 1.86   | 268. | 5.8 | 299.2 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 15 | 115.3  | 0.275  | 1.688  | 0.005  | 1517. | 346.  | -16.3    | 0.12 | 2.65 | 0.24  | 2.25   | 248. | 5.8 | 298.1 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 16 | 41.5   | 0.262  | 1.211  | 0.005  | 1552. | 322.  | -39.2    | 0.12 | 2.65 | 0.33  | 2.32   | 227. | 5.8 | 295.9 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 17 | -17.9  | 0.217  | -9.000 | -9.000 | -999. | 244.  | 52.0     | 0.12 | 2.65 | 0.60  | 2.18   | 227. | 5.8 | 292.5 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 18 | -24.7  | 0.250  | -9.000 | -9.000 | -999. | 300.  | 68.7     | 0.12 | 2.65 | 1.00  | 2.50   | 219. | 5.8 | 288.8 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 19 | -5.2   | 0.088  | -9.000 | -9.000 | -999. | 91.   | 12.0     | 0.12 | 2.65 | 1.00  | 0.94   | 201. | 5.8 | 287.5 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 20 | -3.5   | 0.073  | -9.000 | -9.000 | -999. | 47.   | 10.0     | 0.12 | 2.65 | 1.00  | 0.77   | 259. | 5.8 | 287.0 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 21 | -2.6   | 0.064  | -9.000 | -9.000 | -999. | 39.   | 9.1      | 0.12 | 2.65 | 1.00  | 0.65   | 264. | 5.8 | 286.4 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 22 | -4.4   | 0.081  | -9.000 | -9.000 | -999. | 55.   | 10.9     | 0.12 | 2.65 | 1.00  | 0.86   | 211. | 5.8 | 285.9 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 23 | -4.2   | 0.079  | -9.000 | -9.000 | -999. | 53.   | 10.7     | 0.12 | 2.65 | 1.00  | 0.84   | 247. | 5.8 | 284.9 | 2.0 |     |    |    |
| 12 | 01 | 01 | 1   | 24 | -7.1   | 0.103  | -9.000 | -9.000 | -999. | 80.   | 14.1     | 0.12 | 2.65 | 1.00  | 1.09   | 236. | 5.8 | 283.8 | 2.0 |     |    |    |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB   | TMP  | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|------|------|-------|------|--------|--------|--------|
| 12 | 01 | 01 | 01 | 5.8    | 1 | 62.  | 0.87 | 283.8 | 99.0 | -99.00 | -99.00 | -99.00 |

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 246

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 ,  
L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 ,  
L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 ,  
L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

| ** CONC OF PM_10 IN MICROGRAMS/M**3 |             |         | **          |             |         |
|-------------------------------------|-------------|---------|-------------|-------------|---------|
| X-COORD (M)                         | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
| 418671.00                           | 3720843.36  | 0.14257 | 418721.00   | 3720843.36  | 0.13369 |
| 418771.00                           | 3720843.36  | 0.12214 | 418821.00   | 3720843.36  | 0.11318 |
| 418871.00                           | 3720843.36  | 0.10329 | 418921.00   | 3720843.36  | 0.09590 |
| 418621.00                           | 3720893.36  | 0.18122 | 418671.00   | 3720893.36  | 0.16599 |
| 418721.00                           | 3720893.36  | 0.14564 | 418771.00   | 3720893.36  | 0.13566 |
| 418821.00                           | 3720893.36  | 0.11905 | 418871.00   | 3720893.36  | 0.11174 |
| 418921.00                           | 3720893.36  | 0.10516 | 418621.00   | 3720943.36  | 0.19891 |
| 418671.00                           | 3720943.36  | 0.18538 | 418721.00   | 3720943.36  | 0.16647 |
| 418771.00                           | 3720943.36  | 0.14661 | 418821.00   | 3720943.36  | 0.13322 |
| 418871.00                           | 3720943.36  | 0.12149 | 418921.00   | 3720943.36  | 0.11331 |
| 418021.00                           | 3720993.36  | 0.43801 | 418071.00   | 3720993.36  | 0.50160 |
| 418121.00                           | 3720993.36  | 0.53845 | 418171.00   | 3720993.36  | 0.55059 |
| 418221.00                           | 3720993.36  | 0.61064 | 418271.00   | 3720993.36  | 0.59517 |
| 418321.00                           | 3720993.36  | 0.54814 | 418371.00   | 3720993.36  | 0.48705 |
| 418421.00                           | 3720993.36  | 0.41251 | 418571.00   | 3720993.36  | 0.27062 |
| 418621.00                           | 3720993.36  | 0.24985 | 418671.00   | 3720993.36  | 0.20383 |
| 418721.00                           | 3720993.36  | 0.19347 | 418771.00   | 3720993.36  | 0.16069 |
| 418821.00                           | 3720993.36  | 0.14853 | 418871.00   | 3720993.36  | 0.13280 |
| 418921.00                           | 3720993.36  | 0.12553 | 418021.00   | 3721043.36  | 0.59038 |
| 418071.00                           | 3721043.36  | 0.53496 | 418121.00   | 3721043.36  | 0.57248 |
| 418171.00                           | 3721043.36  | 0.58509 | 418221.00   | 3721043.36  | 0.61645 |
| 418271.00                           | 3721043.36  | 0.63781 | 418321.00   | 3721043.36  | 0.60659 |
| 418371.00                           | 3721043.36  | 0.53649 | 418421.00   | 3721043.36  | 0.45960 |
| 418471.00                           | 3721043.36  | 0.41777 | 418571.00   | 3721043.36  | 0.32940 |
| 418621.00                           | 3721043.36  | 0.28523 | 418671.00   | 3721043.36  | 0.25804 |
| 418721.00                           | 3721043.36  | 0.23121 | 418771.00   | 3721043.36  | 0.18436 |
| 418821.00                           | 3721043.36  | 0.16289 | 418871.00   | 3721043.36  | 0.14939 |
| 418921.00                           | 3721043.36  | 0.15235 | 418021.00   | 3721093.36  | 0.55797 |
| 418071.00                           | 3721093.36  | 0.56885 | 418121.00   | 3721093.36  | 0.58821 |
| 418171.00                           | 3721093.36  | 0.68345 | 418221.00   | 3721093.36  | 0.69254 |
| 418271.00                           | 3721093.36  | 0.73699 | 418321.00   | 3721093.36  | 0.72167 |
| 418371.00                           | 3721093.36  | 0.62652 | 418421.00   | 3721093.36  | 0.56525 |
| 418471.00                           | 3721093.36  | 0.46307 | 418521.00   | 3721093.36  | 0.46763 |
| 418621.00                           | 3721093.36  | 0.32884 | 418671.00   | 3721093.36  | 0.29277 |
| 418721.00                           | 3721093.36  | 0.27065 | 418771.00   | 3721093.36  | 0.26125 |
| 418821.00                           | 3721093.36  | 0.20425 | 418871.00   | 3721093.36  | 0.19060 |
| 418921.00                           | 3721093.36  | 0.22012 | 418021.00   | 3721143.36  | 0.62675 |
| 418071.00                           | 3721143.36  | 0.65056 | 418121.00   | 3721143.36  | 0.65456 |
| 418171.00                           | 3721143.36  | 0.73638 | 418221.00   | 3721143.36  | 0.84710 |
| 418271.00                           | 3721143.36  | 0.88849 | 418321.00   | 3721143.36  | 0.90496 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
 05/21/18  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 08:12:30

PAGE 247

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 ,  
 L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 ,  
 L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 ,  
 L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
 L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

| ** CONC OF PM_10 IN MICROGRAMS/M**3 |             |         | **          |             |         |
|-------------------------------------|-------------|---------|-------------|-------------|---------|
| X-COORD (M)                         | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
| 418371.00                           | 3721143.36  | 0.82607 | 418421.00   | 3721143.36  | 0.70876 |
| 418471.00                           | 3721143.36  | 0.59652 | 418521.00   | 3721143.36  | 0.67997 |
| 418671.00                           | 3721143.36  | 0.34615 | 418721.00   | 3721143.36  | 0.31525 |
| 418771.00                           | 3721143.36  | 0.30195 | 418821.00   | 3721143.36  | 0.28593 |
| 418871.00                           | 3721143.36  | 0.26960 | 418921.00   | 3721143.36  | 0.25777 |
| 418971.00                           | 3721193.36  | 0.76570 | 418121.00   | 3721193.36  | 0.78216 |
| 418171.00                           | 3721193.36  | 0.89506 | 418221.00   | 3721193.36  | 0.94714 |
| 418271.00                           | 3721193.36  | 1.04003 | 418321.00   | 3721193.36  | 1.12421 |
| 418371.00                           | 3721193.36  | 1.04229 | 418421.00   | 3721193.36  | 0.90305 |
| 418471.00                           | 3721193.36  | 0.88258 | 418671.00   | 3721193.36  | 0.44117 |
| 418721.00                           | 3721193.36  | 0.36795 | 418771.00   | 3721193.36  | 0.34454 |
| 418821.00                           | 3721193.36  | 0.32801 | 418871.00   | 3721193.36  | 0.30575 |
| 418921.00                           | 3721193.36  | 0.27575 | 418921.00   | 3721243.36  | 0.80913 |
| 418071.00                           | 3721243.36  | 0.83667 | 418121.00   | 3721243.36  | 0.94434 |
| 418171.00                           | 3721243.36  | 0.98691 | 418221.00   | 3721243.36  | 1.13153 |
| 418271.00                           | 3721243.36  | 1.30580 | 418321.00   | 3721243.36  | 1.41351 |
| 418371.00                           | 3721243.36  | 1.42196 | 418421.00   | 3721243.36  | 1.36036 |
| 418721.00                           | 3721243.36  | 0.40925 | 418771.00   | 3721243.36  | 0.39445 |
| 418821.00                           | 3721243.36  | 0.38313 | 418871.00   | 3721243.36  | 0.33537 |
| 418921.00                           | 3721243.36  | 0.28473 | 418021.00   | 3721293.36  | 0.92954 |
| 418071.00                           | 3721293.36  | 0.86551 | 418121.00   | 3721293.36  | 0.98739 |
| 418171.00                           | 3721293.36  | 1.16933 | 418221.00   | 3721293.36  | 1.38600 |
| 418271.00                           | 3721293.36  | 1.58316 | 418321.00   | 3721293.36  | 1.96907 |
| 418371.00                           | 3721293.36  | 2.35262 | 418721.00   | 3721293.36  | 0.65638 |
| 418771.00                           | 3721293.36  | 0.55176 | 418821.00   | 3721293.36  | 0.46604 |
| 418871.00                           | 3721293.36  | 0.38018 | 418921.00   | 3721293.36  | 0.26126 |
| 418071.00                           | 3721343.36  | 0.85154 | 418121.00   | 3721343.36  | 1.07595 |
| 418171.00                           | 3721343.36  | 1.35430 | 418221.00   | 3721343.36  | 1.57548 |
| 418271.00                           | 3721343.36  | 1.93144 | 418321.00   | 3721343.36  | 2.71283 |
| 418370.31                           | 3721343.70  | 5.71455 | 418771.00   | 3721343.36  | 0.67028 |
| 418821.00                           | 3721343.36  | 0.52905 | 418871.00   | 3721343.36  | 0.43694 |
| 418921.00                           | 3721343.36  | 0.29239 | 418121.00   | 3721393.36  | 1.25505 |
| 418171.00                           | 3721393.36  | 1.65273 | 418221.00   | 3721393.36  | 1.98418 |
| 418271.00                           | 3721393.36  | 2.64664 | 418321.00   | 3721393.36  | 3.89148 |
| 418521.00                           | 3721393.36  | 3.51153 | 418571.00   | 3721393.36  | 2.03503 |
| 418621.00                           | 3721393.36  | 1.50481 | 418671.00   | 3721393.36  | 1.22329 |
| 418771.00                           | 3721393.36  | 0.70991 | 418821.00   | 3721393.36  | 0.58106 |
| 418871.00                           | 3721393.36  | 0.47279 | 418921.00   | 3721393.36  | 0.40353 |
| 418221.00                           | 3721443.36  | 3.34251 | 418271.00   | 3721443.36  | 3.76257 |
| 418521.00                           | 3721443.36  | 4.54045 | 418571.00   | 3721443.36  | 2.52972 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 248

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 ,  
L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 ,  
L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 ,  
L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

| ** CONC OF PM_10 IN MICROGRAMS/M**3 |             |         | **          |             |         |
|-------------------------------------|-------------|---------|-------------|-------------|---------|
| X-COORD (M)                         | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
| 418621.00                           | 3721443.36  | 1.65138 | 418671.00   | 3721443.36  | 1.21511 |
| 418821.00                           | 3721443.36  | 0.58478 | 418871.00   | 3721443.36  | 0.51231 |
| 418921.00                           | 3721443.36  | 0.43002 | 418521.00   | 3721493.36  | 5.34751 |
| 418571.00                           | 3721493.36  | 2.93781 | 418621.00   | 3721493.36  | 2.01593 |
| 418671.00                           | 3721493.36  | 1.42521 | 418721.00   | 3721493.36  | 1.08462 |
| 418821.00                           | 3721493.36  | 0.68161 | 418871.00   | 3721493.36  | 0.51579 |
| 418921.00                           | 3721493.36  | 0.42776 | 418471.00   | 3721543.36  | 8.55485 |
| 418521.00                           | 3721543.36  | 5.40053 | 418571.00   | 3721543.36  | 3.33391 |
| 418621.00                           | 3721543.36  | 2.26350 | 418671.00   | 3721543.36  | 1.59628 |
| 418721.00                           | 3721543.36  | 1.15673 | 418771.00   | 3721543.36  | 0.89425 |
| 418871.00                           | 3721543.36  | 0.62061 | 418921.00   | 3721543.36  | 0.50601 |
| 418471.00                           | 3721593.36  | 7.15077 | 418521.00   | 3721593.36  | 5.06388 |
| 418571.00                           | 3721593.36  | 3.52857 | 418621.00   | 3721593.36  | 2.41297 |
| 418671.00                           | 3721593.36  | 1.76478 | 418721.00   | 3721593.36  | 1.30975 |
| 418771.00                           | 3721593.36  | 1.01047 | 418821.00   | 3721593.36  | 0.80384 |
| 418421.00                           | 3721643.36  | 8.32687 | 418471.00   | 3721643.36  | 6.02533 |
| 418521.00                           | 3721643.36  | 4.45973 | 418571.00   | 3721643.36  | 3.33262 |
| 418621.00                           | 3721643.36  | 2.46305 | 418671.00   | 3721643.36  | 1.84191 |
| 418721.00                           | 3721643.36  | 1.42077 | 418771.00   | 3721643.36  | 1.08702 |
| 418821.00                           | 3721643.36  | 0.87584 | 418871.00   | 3721643.36  | 0.72192 |
| 418221.00                           | 3721693.36  | 3.24959 | 418271.00   | 3721693.36  | 4.95098 |
| 418321.00                           | 3721693.36  | 5.86680 | 418371.00   | 3721693.36  | 6.38123 |
| 418421.00                           | 3721693.36  | 5.89622 | 418471.00   | 3721693.36  | 4.88452 |
| 418521.00                           | 3721693.36  | 3.92915 | 418571.00   | 3721693.36  | 3.09747 |
| 418621.00                           | 3721693.36  | 2.38952 | 418671.00   | 3721693.36  | 1.86639 |
| 418721.00                           | 3721693.36  | 1.46676 | 418771.00   | 3721693.36  | 1.14687 |
| 418821.00                           | 3721693.36  | 0.93847 | 418871.00   | 3721693.36  | 0.74904 |
| 418921.00                           | 3721693.36  | 0.62804 | 418171.00   | 3721743.36  | 1.51358 |
| 418221.00                           | 3721743.36  | 1.75108 | 418271.00   | 3721743.36  | 2.40965 |
| 418321.00                           | 3721743.36  | 3.09162 | 418371.00   | 3721743.36  | 3.64843 |
| 418421.00                           | 3721743.36  | 3.87704 | 418471.00   | 3721743.36  | 3.72450 |
| 418521.00                           | 3721743.36  | 3.25928 | 418571.00   | 3721743.36  | 2.72345 |
| 418621.00                           | 3721743.36  | 2.20632 | 418671.00   | 3721743.36  | 1.77318 |
| 418721.00                           | 3721743.36  | 1.44239 | 418771.00   | 3721743.36  | 1.16513 |
| 418821.00                           | 3721743.36  | 0.94394 | 418871.00   | 3721743.36  | 0.77791 |
| 418921.00                           | 3721743.36  | 0.62195 | 418171.00   | 3721793.36  | 1.05953 |
| 418221.00                           | 3721793.36  | 1.11661 | 418271.00   | 3721793.36  | 1.47792 |
| 418321.00                           | 3721793.36  | 1.89467 | 418371.00   | 3721793.36  | 2.31891 |
| 418421.00                           | 3721793.36  | 2.71307 | 418471.00   | 3721793.36  | 2.76677 |
| 418521.00                           | 3721793.36  | 2.56931 | 418571.00   | 3721793.36  | 2.28250 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30

PAGE 249

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 ,  
L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 ,  
L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 ,  
L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

| ** CONC OF PM_10 IN MICROGRAMS/M**3 |             |         | **          |             |         |
|-------------------------------------|-------------|---------|-------------|-------------|---------|
| X-COORD (M)                         | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
| 418621.00                           | 3721793.36  | 1.93631 | 418671.00   | 3721793.36  | 1.63045 |
| 418721.00                           | 3721793.36  | 1.35634 | 418771.00   | 3721793.36  | 1.13547 |
| 418821.00                           | 3721793.36  | 0.91896 | 418871.00   | 3721793.36  | 0.77965 |
| 418921.00                           | 3721793.36  | 0.63206 | 418171.00   | 3721843.36  | 0.86538 |
| 418221.00                           | 3721843.36  | 0.85659 | 418271.00   | 3721843.36  | 1.00342 |
| 418321.00                           | 3721843.36  | 1.28849 | 418371.00   | 3721843.36  | 1.63636 |
| 418421.00                           | 3721843.36  | 1.90198 | 418471.00   | 3721843.36  | 2.02634 |
| 418521.00                           | 3721843.36  | 2.01179 | 418571.00   | 3721843.36  | 1.88256 |
| 418621.00                           | 3721843.36  | 1.68205 | 418671.00   | 3721843.36  | 1.46116 |
| 418721.00                           | 3721843.36  | 1.25462 | 418771.00   | 3721843.36  | 1.07567 |
| 418821.00                           | 3721843.36  | 0.89369 | 418871.00   | 3721843.36  | 0.76320 |
| 418921.00                           | 3721843.36  | 0.63167 | 418021.00   | 3721893.36  | 0.58009 |
| 418071.00                           | 3721893.36  | 0.56073 | 418121.00   | 3721893.36  | 0.57902 |
| 418171.00                           | 3721893.36  | 0.66488 | 418221.00   | 3721893.36  | 0.66061 |
| 418271.00                           | 3721893.36  | 0.74394 | 418321.00   | 3721893.36  | 0.92034 |
| 418371.00                           | 3721893.36  | 1.16930 | 418421.00   | 3721893.36  | 1.38588 |
| 418471.00                           | 3721893.36  | 1.53028 | 418521.00   | 3721893.36  | 1.58042 |
| 418571.00                           | 3721893.36  | 1.53240 | 418621.00   | 3721893.36  | 1.43091 |
| 418671.00                           | 3721893.36  | 1.28867 | 418721.00   | 3721893.36  | 1.14049 |
| 418771.00                           | 3721893.36  | 1.00070 | 418821.00   | 3721893.36  | 0.85395 |
| 418871.00                           | 3721893.36  | 0.72160 | 418921.00   | 3721893.36  | 0.60823 |
| 417971.00                           | 3721943.36  | 0.46088 | 418021.00   | 3721943.36  | 0.44204 |
| 418071.00                           | 3721943.36  | 0.43325 | 418121.00   | 3721943.36  | 0.45841 |
| 418171.00                           | 3721943.36  | 0.52307 | 418221.00   | 3721943.36  | 0.56987 |
| 418271.00                           | 3721943.36  | 0.59322 | 418321.00   | 3721943.36  | 0.71744 |
| 418371.00                           | 3721943.36  | 0.87548 | 418421.00   | 3721943.36  | 1.04219 |
| 418471.00                           | 3721943.36  | 1.17605 | 418521.00   | 3721943.36  | 1.25313 |
| 418571.00                           | 3721943.36  | 1.25792 | 418621.00   | 3721943.36  | 1.21473 |
| 418671.00                           | 3721943.36  | 1.13348 | 418721.00   | 3721943.36  | 1.02677 |
| 418771.00                           | 3721943.36  | 0.91652 | 418821.00   | 3721943.36  | 0.80208 |
| 418871.00                           | 3721943.36  | 0.66090 | 418921.00   | 3721943.36  | 0.58197 |
| 417921.00                           | 3721993.36  | 0.39159 | 417971.00   | 3721993.36  | 0.35914 |
| 418021.00                           | 3721993.36  | 0.35529 | 418071.00   | 3721993.36  | 0.34386 |
| 418121.00                           | 3721993.36  | 0.35356 | 418171.00   | 3721993.36  | 0.39073 |
| 418221.00                           | 3721993.36  | 0.44141 | 418271.00   | 3721993.36  | 0.47846 |
| 418321.00                           | 3721993.36  | 0.56418 | 418371.00   | 3721993.36  | 0.67741 |
| 418421.00                           | 3721993.36  | 0.80426 | 418471.00   | 3721993.36  | 0.92054 |
| 418521.00                           | 3721993.36  | 1.00261 | 418571.00   | 3721993.36  | 1.03928 |
| 418621.00                           | 3721993.36  | 1.02828 | 418671.00   | 3721993.36  | 0.98264 |
| 418721.00                           | 3721993.36  | 0.91474 | 418771.00   | 3721993.36  | 0.82666 |



\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
 05/21/18  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 08:12:30

PAGE 250

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 ,  
 L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 ,  
 L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 ,  
 L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
 L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

| ** CONC OF PM_10 IN MICROGRAMS/M**3 |             |         | **          |             |         |
|-------------------------------------|-------------|---------|-------------|-------------|---------|
| X-COORD (M)                         | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
| 418821.00                           | 3721993.36  | 0.74121 | 418871.00   | 3721993.36  | 0.61530 |
| 418921.00                           | 3721993.36  | 0.55156 | 417871.00   | 3722043.36  | 0.38105 |
| 417921.00                           | 3722043.36  | 0.33126 | 417971.00   | 3722043.36  | 0.32305 |
| 418021.00                           | 3722043.36  | 0.29252 | 418071.00   | 3722043.36  | 0.29248 |
| 418121.00                           | 3722043.36  | 0.31700 | 418171.00   | 3722043.36  | 0.33066 |
| 418221.00                           | 3722043.36  | 0.35869 | 418271.00   | 3722043.36  | 0.40288 |
| 418321.00                           | 3722043.36  | 0.45730 | 418371.00   | 3722043.36  | 0.53898 |
| 418421.00                           | 3722043.36  | 0.63508 | 418471.00   | 3722043.36  | 0.73114 |
| 418521.00                           | 3722043.36  | 0.80795 | 418571.00   | 3722043.36  | 0.85925 |
| 418621.00                           | 3722043.36  | 0.87375 | 418671.00   | 3722043.36  | 0.85425 |
| 418721.00                           | 3722043.36  | 0.81269 | 418771.00   | 3722043.36  | 0.72959 |
| 418821.00                           | 3722043.36  | 0.67174 | 418871.00   | 3722043.36  | 0.57305 |
| 418921.00                           | 3722043.36  | 0.51872 | 417871.00   | 3722093.36  | 0.29019 |
| 417921.00                           | 3722093.36  | 0.27864 | 417971.00   | 3722093.36  | 0.26697 |
| 418021.00                           | 3722093.36  | 0.25326 | 418071.00   | 3722093.36  | 0.25562 |
| 418121.00                           | 3722093.36  | 0.27240 | 418171.00   | 3722093.36  | 0.28943 |
| 418221.00                           | 3722093.36  | 0.30670 | 418271.00   | 3722093.36  | 0.33648 |
| 418321.00                           | 3722093.36  | 0.36890 | 418371.00   | 3722093.36  | 0.44002 |
| 418421.00                           | 3722093.36  | 0.51306 | 418471.00   | 3722093.36  | 0.59206 |
| 418521.00                           | 3722093.36  | 0.66144 | 418571.00   | 3722093.36  | 0.71417 |
| 418621.00                           | 3722093.36  | 0.73968 | 418671.00   | 3722093.36  | 0.74345 |
| 418721.00                           | 3722093.36  | 0.71982 | 418771.00   | 3722093.36  | 0.65107 |
| 418821.00                           | 3722093.36  | 0.60983 | 418871.00   | 3722093.36  | 0.53056 |
| 418921.00                           | 3722093.36  | 0.48574 | 417821.00   | 3722143.36  | 0.25159 |
| 417871.00                           | 3722143.36  | 0.24678 | 417921.00   | 3722143.36  | 0.23335 |
| 417971.00                           | 3722143.36  | 0.21774 | 418021.00   | 3722143.36  | 0.22662 |
| 418071.00                           | 3722143.36  | 0.22108 | 418121.00   | 3722143.36  | 0.24111 |
| 418171.00                           | 3722143.36  | 0.25062 | 418221.00   | 3722143.36  | 0.27425 |
| 418271.00                           | 3722143.36  | 0.29662 | 418321.00   | 3722143.36  | 0.31582 |
| 418371.00                           | 3722143.36  | 0.36484 | 418421.00   | 3722143.36  | 0.40393 |
| 418471.00                           | 3722143.36  | 0.48601 | 418521.00   | 3722143.36  | 0.54770 |
| 418571.00                           | 3722143.36  | 0.59749 | 418621.00   | 3722143.36  | 0.62971 |
| 418671.00                           | 3722143.36  | 0.64012 | 418721.00   | 3722143.36  | 0.62903 |
| 418771.00                           | 3722143.36  | 0.58070 | 418821.00   | 3722143.36  | 0.55072 |
| 418871.00                           | 3722143.36  | 0.49043 | 418921.00   | 3722143.36  | 0.45288 |

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 251

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS \*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3 \*\*

| GROUP ID |                       | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE             | NETWORK GRID-ID |
|----------|-----------------------|--------------|----------------------------------------|---------------------|-----------------|
| ALL      | 1ST HIGHEST VALUE IS  | 8.55485 AT ( | 418471.00, 3721543.36,                 | 30.70, 31.31, 0.00) | DC              |
|          | 2ND HIGHEST VALUE IS  | 8.32687 AT ( | 418421.00, 3721643.36,                 | 33.25, 33.25, 0.00) | DC              |
|          | 3RD HIGHEST VALUE IS  | 7.15077 AT ( | 418471.00, 3721593.36,                 | 33.13, 33.13, 0.00) | DC              |
|          | 4TH HIGHEST VALUE IS  | 6.38123 AT ( | 418371.00, 3721693.36,                 | 30.85, 34.70, 0.00) | DC              |
|          | 5TH HIGHEST VALUE IS  | 6.02533 AT ( | 418471.00, 3721643.36,                 | 34.31, 34.31, 0.00) | DC              |
|          | 6TH HIGHEST VALUE IS  | 5.89622 AT ( | 418421.00, 3721693.36,                 | 33.26, 33.26, 0.00) | DC              |
|          | 7TH HIGHEST VALUE IS  | 5.86680 AT ( | 418321.00, 3721693.36,                 | 29.07, 34.70, 0.00) | DC              |
|          | 8TH HIGHEST VALUE IS  | 5.71455 AT ( | 418370.31, 3721343.70,                 | 23.11, 39.10, 0.00) | DC              |
|          | 9TH HIGHEST VALUE IS  | 5.40053 AT ( | 418521.00, 3721543.36,                 | 31.37, 31.37, 0.00) | DC              |
|          | 10TH HIGHEST VALUE IS | 5.34751 AT ( | 418521.00, 3721493.36,                 | 29.97, 33.70, 0.00) | DC              |

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 16216r \*\*\* \*\*\* C:\Lakes\AERMOD View\AERMOD Projects\Big Canyon Phase 2\Big Canyon P \*\*\*  
05/21/18  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
08:12:30 \*\*\*

PAGE 252

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1864 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 1500 Calm Hours Identified  
  
A Total of 364 Missing Hours Identified ( 0.83 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 3402 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 3402 MEOPEN: ADJ\_U\* Option for Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

# Appendix C

## **Biological Resources Technical Report**

DRAFT

BIOLOGICAL RESOURCES TECHNICAL REPORT  
Big Canyon Coastal Habitat Restoration and  
Adaptation Project – Phase 2A

July 2018



Prepared for  
Newport Bay Conservancy

Prepared by  
Environmental Science Associates  
Irvine, California



# TABLE OF CONTENTS

## Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A Draft Biological Resources Technical Report

|                                                          | <u>Page</u> |
|----------------------------------------------------------|-------------|
| <b>1 Introduction.....</b>                               | <b>1</b>    |
| 1.1 Project Location and Land Use.....                   | 1           |
| 1.2 Project Overview and Design .....                    | 4           |
| <b>2 Methodology .....</b>                               | <b>14</b>   |
| 2.1 Literature and Database Review .....                 | 14          |
| 2.2 Biological Resource Surveys .....                    | 15          |
| <b>3 Environmental Setting.....</b>                      | <b>19</b>   |
| 3.1 Regional Setting .....                               | 19          |
| 3.2 Topography .....                                     | 20          |
| 3.3 Soils.....                                           | 20          |
| 3.4 Vegetation Communities.....                          | 23          |
| 3.5 CRAM Assessment Results.....                         | 32          |
| 3.6 Jurisdictional Resources.....                        | 35          |
| 3.7 Flora .....                                          | 38          |
| 3.8 Wildlife Species .....                               | 38          |
| 3.9 Special-Status Biological Resources .....            | 38          |
| 3.10 Critical Habitat .....                              | 48          |
| 3.11 Wildlife Movement .....                             | 48          |
| <b>4 Regulatory Framework.....</b>                       | <b>49</b>   |
| 4.1 Federal .....                                        | 49          |
| 4.2 State .....                                          | 51          |
| 4.3 Local.....                                           | 54          |
| <b>5 Potential Effects.....</b>                          | <b>56</b>   |
| 5.1 Special-Status Species.....                          | 57          |
| 5.2 Riparian Habitat or Sensitive Natural Community..... | 60          |
| 5.3 Jurisdictional Wetlands .....                        | 64          |
| 5.4 Wildlife Movement and Nursery Sites .....            | 65          |
| 5.5 Local Policies, Ordinances, and Adopted Plans .....  | 65          |
| <b>6 Mitigation Measures .....</b>                       | <b>67</b>   |
| <b>7 References .....</b>                                | <b>68</b>   |

### Appendices

- A Jurisdictional Delineation Report
- B Pre-Project Riverine California Rapid Assessment (CRAM) Report
- C Plant and Wildlife Species Compendia
- D Potentially Occurring Special-Status Species

**List of Figures**

|    |                                                                                    |    |
|----|------------------------------------------------------------------------------------|----|
| 1  | Regional Location .....                                                            | 2  |
| 2  | Project Vicinity .....                                                             | 3  |
| 3  | Proposed Project: Conceptual Restoration Plan .....                                | 5  |
| 4  | Proposed Project: Creek Channel and Floodplain Restoration and Stabilization ..... | 11 |
| 5  | Soils .....                                                                        | 21 |
| 6  | Biological Resources .....                                                         | 25 |
| 7  | CRAM Assessment Area 2A .....                                                      | 33 |
| 8a | USACE/RWQCB Jurisdiction .....                                                     | 36 |
| 8b | CDFW/CCC Jurisdiction .....                                                        | 37 |
| 9  | Special-Status Species Occurrences (USFWS and CNDDB) .....                         | 47 |
| 10 | Modifications to Existing Vegetation Communities .....                             | 61 |

**List of Tables**

|   |                                                                                         |    |
|---|-----------------------------------------------------------------------------------------|----|
| 1 | Vegetation Communities .....                                                            | 24 |
| 2 | Summary of CRAM Scores .....                                                            | 34 |
| 3 | Jurisdictional Areas .....                                                              | 35 |
| 4 | Special-Status Plant Species with the Potential to Occur Within the Study Area .....    | 41 |
| 5 | Special-Status Wildlife Species with the Potential to Occur Within the Study Area ..... | 43 |
| 6 | Modifications to Vegetation Communities in Phase 2A Project Area .....                  | 63 |

# Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A

---

## Draft Biological Resources Technical Report

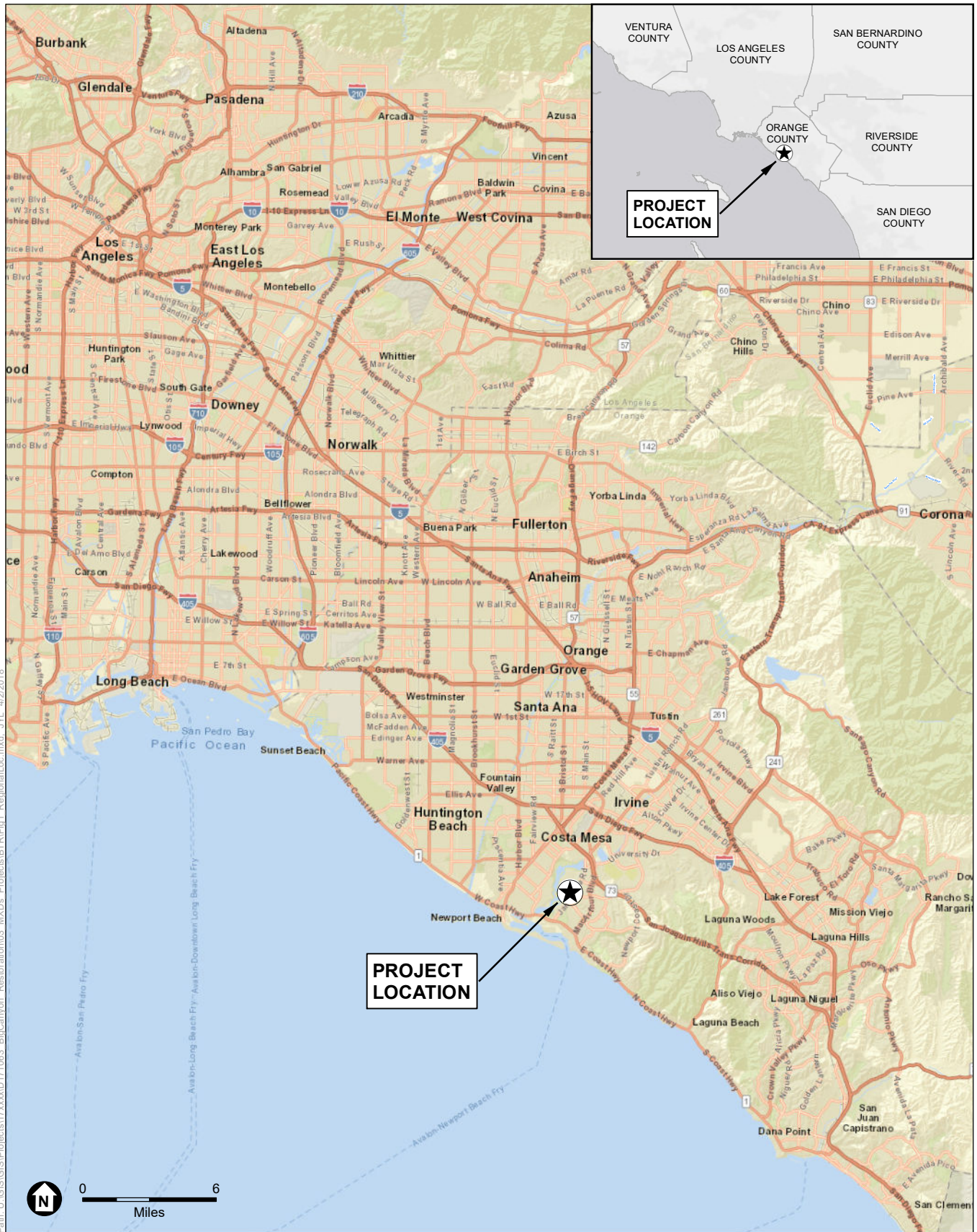
### 1 Introduction

This report has been prepared to document the results of biological resources surveys conducted within the approximately 11.32-acre Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A (referred to herein as Big Canyon Restoration Project – Phase 2A, or “project site”), as well as a 500-foot buffer around the project site excluding developed areas (cumulatively referred to as “study area”, and comprising a total of 37.13 acres), and to describe potential direct or indirect effects to biological resources as a result of project implementation. The project has four objectives: (1) restore historic riparian habitat by removing non-native vegetation and replanting native species, (2) restore and create a mosaic of native and sustainable habitats, 3) stabilize the creek and floodplain by pulling back incised steep banks and implementing erosion control measures using plantings, and (4) enhance public access and education within the Big Canyon Nature Park with improved trails and closure of illegal trails. This report describes the environmental setting of the study area and immediate vicinity, including plant communities, habitats, and sensitive biological resources that have been documented on site or have the potential to occur on site. In addition, the report includes an analysis of project-related construction and operational impacts to sensitive biological resources within the context of applicable environmental regulations, and provides recommendations to mitigate these effects.

#### 1.1 Project Location and Land Use

The project site is located within the city of Newport Beach on 11.32 acres within the eastern portion of the 60-acre Big Canyon Nature Park (**Figure 1**). This area is east of Upper Newport Bay, west of Jamboree Road, and includes a segment of Big Canyon Creek (**Figure 2**). Land uses in the project vicinity include residential and commercial development. On-site land uses include passive recreation, such as hiking on the public trail and/or access road that run through the study area.





SOURCE: ESRI

Big Canyon Restoration - Phase 2A

**Figure 1**  
Regional Location





SOURCE: USGS 7.5' Topo Quad Newport Beach 1977

Big Canyon Restoration - Phase 2A

**Figure 2**  
Project Vicinity



## 1.2 Project Overview and Design

Newport Bay Conservancy (NBC) proposes to implement the next phases of restoration within Big Canyon as part of a multi-phase restoration project within the 60-acre Big Canyon Nature Park. Phase 1 of the restoration has been completed by the City of Newport Beach (City) and is currently in the post-construction maintenance phase. Phase 2 of the restoration will be implemented in stages and is subdivided into Sites 2A, 2B and 2C.

Phase 2A (the proposed project) is the next phase to be implemented downstream of Phase 1 (as shown in **Figure 3**). Restoration of this area includes invasive plant removal followed by native plant revegetation and management to restore riparian and upland habitats. Phases 2B and 2C, which are downstream of Phase 2A, are anticipated to include stream corridor enhancement and remediation of the selenium-impacted freshwater pond, as well as invasive plant removal and management; however, additional investigation and feasibility analysis are still needed for Sites 2B and 2C. This report analyzes the biological resources effects of implementation of the proposed restoration of the Phase 2A site.

As was done for Phase 1, the proposed project is being planned to be consistent with the goals identified in the Big Canyon Nature Park Resource and Recreation Management Plan (RMMP), prepared by the Irvine Ranch Conservancy (IRC) and Dudek (2016) for the City of Newport Beach, although it has not yet been formally adopted by the City.<sup>1</sup> The RMMP provides a framework for restoration, resource management, and recreational improvements in the Nature Park.

The Big Canyon Nature Park lies within the Orange County Central-Coastal Natural Community Conservation Plan (NCCP)/Habitat Conservation Plan (HCP), but is not part of the 37,380-acre habitat reserve (the Reserve). This area is identified as non-Reserve Open Space in the NCCP/HCP. Nevertheless, the level of detail provided in the RRMP is consistent with the components and applicable policies in the event the City elects to incorporate the Nature Park into the NCCP/HCP. Whether or not such enrollment occurs, the RRMP was prepared to provide a comprehensive long-term management plan to guide future policy, land use, and resource management decisions. The planned restoration efforts within Big Canyon are intended to be consistent with the RMMP.

Specifically, the goals of the Phase 2A project are to: (1) restore riparian habitat; (2) restore and create a mosaic of native and sustainable habitats; (3) stabilize the creek and floodplain; and (4) enhance public access and education within the Big Canyon Nature Park.

To achieve these goals, the proposed project has multiple objectives including:

- Remove Exotic and Invasive Plants
- Replant with Native Vegetation to Create a Mosaic of Coastal Habitats
- Restore, Enhance, and Improve the Resiliency of Riparian Habitat

---

<sup>1</sup> Cieslak, Heather. March 29, 2018. Personal communication.





SOURCE: ESRI; Dudek; ESA

Big Canyon Restoration - Phase 2A

**Figure 3**  
Proposed Project: Conceptual Restoration Plan

This page intentionally left blank



- Create Wet Alkali Meadow and High Alkali Meadow Habitats to Improve Resiliency of Restored Habitats
- Reduce Big Canyon Creek Channel Erosion and Restore Connectivity between the Big Canyon Creek Channel and Floodplain
- Remediate and Remove Favorable Mosquito Breeding Habitat
- Improve the Big Canyon Creek Water Quality and Benthic Habitat
- Encourage Public Access and Improve Educational and Recreational Opportunities

To meet these objectives, the proposed project includes the following components (Figure 3):

1. **Remove Exotic and Invasive Plants.** More than half of the proposed project area is dominated by invasive Brazilian pepper trees, which have a negative impact on the quality of the riparian corridor and adjacent habitat zones. The proposed project will first remove the invasive pepper tree groves and other invasive plant species. More extensive clearing and grubbing is anticipated within the pepper tree groves (6.33 acres). In order to stabilize the stream and restore sections of the creek where the channel has been locally incised, some of these more extensive clearing and grubbing activities will extend from the pepper tree groves into existing woody riparian areas that contain exotics. These areas account for a limited area of 0.5 acres of the total 6.83 acres that will require extensive clearing and grubbing predominantly in the pepper tree grove. Selective removal of exotic trees and other invasive plants will be conducted in an additional 2.41-acre area of existing woody riparian vegetation that contains pepper trees. . The total area of clearing, grubbing and selective vegetation removal for restoration purposes is 9.24 acres. Where access with heavy equipment to the more isolated invasive plants requires clearing, these access routes will connect with removal areas to minimize disturbance of native vegetation where feasible. These access routes have been accounted for in the estimated area of heavier clearing and grubbing. These areas will be replanted with native plantings.

Clearing and removal of non-native pepper trees with large canopies and root systems will result in depressions left where large root masses are removed. These depressions and voids will be back-filled as part of site fine-grading using soils from pulling back steeper creek slopes to provide better connectivity to the floodplain. The removal of these non-native trees require removal of the root ball to limit re-sprouting and re-establishment. The removal of pepper trees and root systems located within and adjacent to the stream banks will be conducted with bank stabilization efforts. In reaches where the existing channel is deeper than desired, removal of the pepper trees will create an opportunity to adapt the root ball depression into lower floodplain areas that develop into seasonal wetlands. In other areas (e.g. where a root ball depression is on an outside bend or the existing channel is already an appropriate width and depth) the approach will be to reconstruct the banks of the creek to appropriate stable dimensions using biotechnical methods (e.g. biodegradable coir fabric, use of live, native plant materials).

Removal and clearing of the pepper trees and other exotic and invasive plants will involve cutting down and shredding all the smaller limbs and foliage and using a stump grinder to chip the larger trunks and stems. The small limbs and foliage contain oil that can deter native plant growth and will require off-site disposal along with the pepper tree seed. A small excavator or backhoe will then be used to grub out the top 2 feet of surface material with a fork or claw attachment to extract the bulk of the existing root mass for chipping. Chipped material totaling up to approximately 800 cubic yards may be used for top dressing within the replanted area on site. It is estimated that up to 6,000 to a maximum of 7,500 cubic yards of

chipped and shredded material will not be suitable for use on-site due to its oil properties and will require disposal off-site at a green waste facility. Where feasible, chipped material may be used for on-site trails to reduce the off-site export. Where the root mass of existing exotic trees currently provides stabilization of the stream bank, measures will be implemented to maintain bank stability after roots are removed, as discussed under the stream restoration component.

- 2. Replant Native Vegetation to Create a Mosaic of Coastal Habitats.** Following clearing and removal of invasive pepper trees and other exotics and invasive plants, including the bulk of associated root material, stream bank stabilization and site fine-grading will be conducted as part of the stream restoration. The purpose of the bank stabilization and fine-grading is to create floodplain benches and pull back incised channel banks to achieve gentler bank slopes and improve hydrologic connectivity of the channel with the broader floodway. Soils excavated for floodplain benches and to achieve gentler slopes will be used for bank reconstruction and stabilization and for fine-grading to redistribute and to fill in depressions created by the removal of the root mass from larger pepper trees. This fine-grading will allow for a transition from the creek channel to a wet and then drier flood way that then transitions to upland as elevations increase. The cleared and graded areas will be replanted with appropriate native vegetation that provides a mosaic of woody and herbaceous riparian vegetation along the creek corridor, wet alkali meadow and high alkali meadow communities adjacent to the riparian corridor, and coastal sage scrub transitional habitat around the perimeter of the site where elevations are above the flood way. The plant species planned to revegetate these habitat mosaics will be selected for their tolerance of the high salinity levels in much of the soil in the project area. In the areas of the proposed plan that contain a mixture of woody riparian vegetation and invasive species, identified invasive species will be removed and replaced with native more resilient riparian vegetation.
- 3. Restore, Enhance and Improve the Resiliency of Riparian Habitat.** The stream corridor outside of the pepper trees groves is dominated by native willows that exhibited evidence of infestation by the Polyphagous Shot Hole Borer (PSHB) noted during field surveys conducted during Phase 1. The proposed project will use pest management techniques in consultation with experts from the University of California Riverside. Such techniques may include heavy pruning of the existing infested mature trees and application of soil amendments and tree injections to improve resilience of existing woody plants. These areas also contain invasive plant species that will be removed selectively and replaced with native plants. To improve sustainability of the replanted native riparian vegetation, woody species and herbaceous plants that are not highly susceptible to PSHB infestation will be selected. Soil amendments will be also used to reduce salinity levels and improve biological activity in soils. Similarly, the planned re-vegetation after exotic removal along the creek channel will use a mixed palette of native vegetation that includes smaller stem plants that are less desirable to the PSHB. Without these management measures, the existing willow trees and proposed riparian habitat would be likely to be impacted by the PSHB infestation which eventually causes die off of large mature trees that would provide potentially suitable habitat for important wildlife, including, for example, the State and federally Endangered least Bell's vireo (*Vireo bellii pusillus*).
- 4. Create Wet and High Alkali Marsh Habitat to Improve Resiliency.** Following the clearing and grubbing of the 6.83 acres of pepper trees (include 0.5 acres of extensive clearing in mixed willow and exotics for stream restoration), stream restoration (excavation of benches, slope grading and bank stabilization) and fine-grading, alkali wet (low) meadow and high alkali meadow communities will be created adjacent to the restored riparian habitat corridor and the newly connected floodplain. The plant assemblage that comprises alkali

meadow communities are better adapted to the site's saline soils. The areas adjacent to the riparian corridors that have more frequent flood inundation will provide conditions suitable for a wetter alkali meadow habitat. The extent of the wet alkali meadow will depend on frequency of flood inundation and depth to groundwater. Fine-grading and contouring will be performed using soils from excavation for floodplain benches and from pulling back from steep stream banks to establish more gentle slopes and restore the connectivity between the stream channel and the floodplain. These soils will be used to fill in depressions from clearing and grubbing activities that include removal of tree roots of the invasive pepper tree, and create a gentle slope from the stream bank to the toe of the upland slopes along the perimeter of Phase 2A.

At slightly higher elevations and further from the riparian corridor, a high alkali meadow community will be created where conditions will be more xeric (drier). The extent of the wet and high alkali meadow communities, as shown on Figure 3 will vary depending on seasonal inundation during wet weather flows that will extend out from the creek channel into the floodplain. Localized groundwater seepage and depth below the surface will also influence the extent of these alkali meadow communities.

Restoration and enhancement of upland coastal sage scrub habitat at higher elevations, as shown on Figure 3, will further add to the habitat mosaic. These areas along the perimeter of Phase 2A, also provide limited opportunities to use fill material excavated for the creek restoration component and for chipped vegetation/mulch from clearing activities.

5. **Reduce Creek Channel Erosion and Restore Connectivity between the Creek Channel and Floodplain.** Urbanization in the Big Canyon watershed has resulted in increased peak and sustained storm flows that have resulted in hydraulic modification of the Big Canyon Creek. The project includes restoration of segments of Big Canyon Creek that have been eroded and locally scoured, isolating the channel from the floodplain and degrading the riparian corridor which requires periodic inundation. These segments are within the combined 6.83-acre predominated by invasive pepper tree groves that will require clearing, grubbing and removal of tree roots to prevent re-sprouting. As shown on **Figure 4**, there are creek segments within the proposed project where the channel is more incised and the floodplain is isolated from the channel. Along these segments within the project limits the channel has been incised creating a steep vertical bank slope two to four feet from the top of the bank to the toe of bank. This has reduced floodplain connectivity in the adjacent riparian community that requires periodic inundation to support native biological species and habitat conditions, and has created steep banks that are hard for vegetation to colonize. Within these segments the channel will be excavated and graded to create floodplain benches and gentler slopes connecting the channel with the floodplain and providing for more frequent inundation during storm events. Without the proposed project restoration measures, the ongoing physical, chemical, and biological processes will result in additional bank and bed erosion, and continued displacement of coastal riparian and alkali meadow habitat by invasive species that could otherwise provide habitat for endangered and threatened species. These species include least Bell's vireo in the riparian corridor and Belding's savannah sparrow in the alkali meadow habitat.

Along the locally incised segments that total approximately 680 linear feet, the existing channel bank will be excavated to create floodplain benches of approximately 30 feet from the existing banks, and the slope from the bench pulled back to a maximum 3:1 slope to provide connectivity between the channel and floodway, and support vegetation. Fine grading of the site will create a gentler slope from the re-constructed/stabilized banks to provide connectivity between the channel and floodway, and support vegetation (see **Figure 4**). Fine-grading of the site will extend out to establish a gentle slope to the toe of the upland slopes.



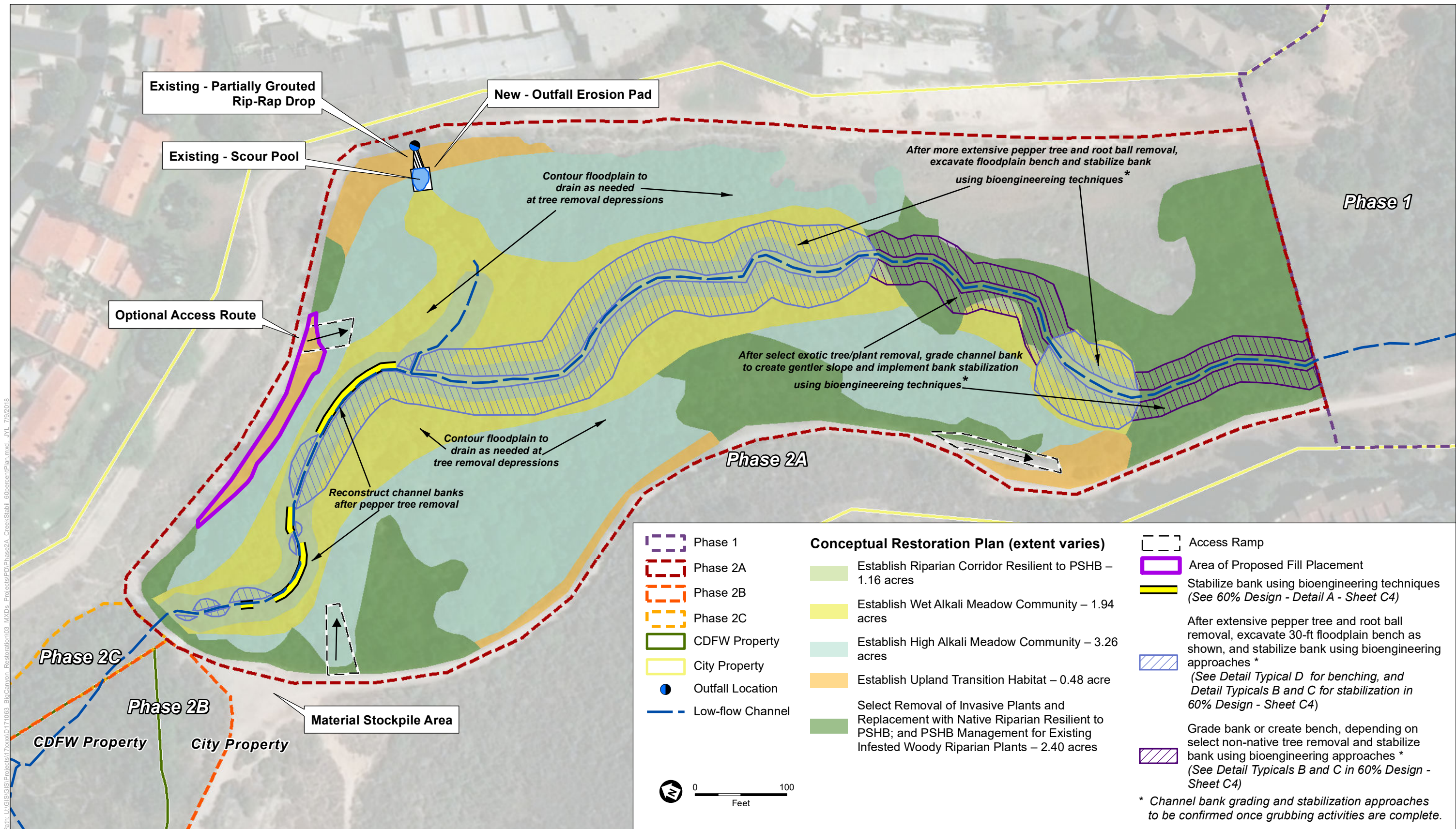
Fine-grading will also consist of filling in depressions left from the removal of root balls of the non-native pepper trees. Gently sloped channel banks will then be re-planted with native riparian vegetation within the approximately 45-65-foot wide continuous riparian corridor.

Within these segments, existing mature pepper trees have been established with extensive root systems that have stabilized the creek banks. In order to provide for bank stabilization after the larger pepper trees and root masses located on or adjacent to the stream banks are removed, the bank at these locations will be reconstructed and stabilized using bio-engineering techniques. The extent of these stabilizing techniques will be dependent on the location and extent of the larger pepper trees along the banks. In reaches where the existing channel is deeper than desired this will create an opportunity to adapt the root ball depression into lower floodplain areas that develop into seasonal wetlands. In segments heavily disturbed by the removal of the pepper trees, bank activities are determined separately for outside bends and straight or inside bends. Disturbed channel banks on the inside bend or straight reach will be reconstructed by excavating/reconfiguring a maximum 30 ft. wide floodplain bench that is connected to the existing grade out from the bench with a maximum 3:1 daylight slope. Disturbed channel banks on the outside bend will be reconstructed and stabilized using vegetated soil lifts (VSLs). In other areas not affected by grubbing but bank heights are greater than 2 feet, the approach will be to pull back the creek banks to a stable slope of 3:1 and stabilized using biotechnical methods (e.g. biodegradable coir fabric, use of live, native plant materials).

Because the condition of the creek bank immediately following the pepper tree and associated root system removal cannot be fully determined until after clearing and grubbing, the proposed design will use an adaptive restoration design approach that anticipates the various conditions that may be encountered (e.g. outside bend bank with hole from root ball removal, inside bend without root ball removal etc.), and provides the bank excavation and bio-engineering stabilization techniques to address each of these conditions. Details on these stream bank treatment approaches are provided in the 60% design plans.

Encapsulated vegetated soil lifts (VSL) implemented under the conditions defined in the design details will be planted with native riparian shrubs (e.g., mule fat, sandbar willow) and other native vegetation less susceptible to PSHB will be used to construct and protect the banks, and to provide erosion control. The vegetated soil lifts will be constructed in 1-foot-thick lifts containing amended alluvial soil from the site to improve success of replanting. Each lift will be encapsulated in coir fiber that will biodegrade over the first 2–3 years, once the incorporated native riparian vegetation has established. Each lift will be separated from the next by a layer of mulefat and willow stems that will grow following installation and are more resilient to PSHB. Daylight slopes for floodplain benches and banks where the channel is two foot or less from the top of the bank will be pulled back to a maximum 3:1 slope and revegetated and stabilized using erosion control fabric or brush mat per the design details.

As shown on **Figure 4**, within the stream segments that are between the areas of pepper tree removal, the bank stabilization treatment as described will extend into these areas of existing woody riparian mixed with invasive plants. In these areas the extent of bank stabilization and grading will be limited to minimize disturbance of existing native plants, but may include clearing of up to approximately 0.5 acres of these mixed vegetation communities for the purpose of restoring connectivity of the flood way and stabilizing the creek banks. The bank treatments will depend on the depth of the channel compared to the top of the bank and whether it is an inside or outside bend. The adaptive bank treatment approaches are shown in the 60% design.



SOURCE: ESRI; Dudek; ESA

Big Canyon Restoration - Phase 2A

**Figure 4**  
Proposed Project:  
Creek Channel and Floodplain Restoration and Stabilization

This page intentionally left blank

Outside the 65 to 45-foot wide riparian corridor and within the areas designated for pepper tree removal as shown on **Figure 3**, the site will be graded to level out depressions from pepper tree root mass removal to reduce the potential for ponding of water that can create favorable mosquito breeding habitat, and to extend the area of flood inundation to establish the wet alkali meadow habitat. The total amount of expected fine-grading to restore and stabilize the creek channel and establish the floodway connectively and establish the planned mosaic of riparian and wet and high alkali meadow habitats is 2,500 - 5,500 cubic yards. This total estimated fine-grading quantity is for this concept “envelope” for estimating construction vehicle emissions and noise potential impacts. The design process will refine these quantities. The proposed project will use excavated soils from establishing floodplain benches and pulling back steep stream slopes to fill in depressions created with the removal of the root mass of the extensive pepper tree grove. The filling in of depressions and fine-grading will create a continuous gentle slope that connects the channel with the floodplain extending to the toe of the upland slopes around the perimeter of Phase 2A. The pulling back of the steep banks and fine-grading of the floodplain will maintain the extent of the floodplain and associated jurisdiction wetlands. There will be no change in the defined acreage of existing jurisdictional wetlands. For the purpose of this concept “envelope”, up to approximately 2,000-4,000 cubic yards of the material from pulling back the stream banks may be used to fine-grade the site to fill in depressions and create a continuous connect floodplain. A portion of this soil that is suitable will also be used in constructed of the bank stabilization. Limited amounts of approximately 500-1,000 cubic yards of soils may be used to place on the existing upland areas between the perimeter roads and toe of the upland slope as shown on **Figure 4**. A limited amount (<250 cubic yards) of suitable material may also be used on trails that are not used for maintenance vehicle access. For the purpose of this concept “envelope”, approximately 500-1,500 cubic yards of on-site soils are anticipated to be transported off-site to a permitted facility that cannot be accommodated within the planned fine-grading of the floodplain. This estimated quantity may be reduced to no off-site disposal through the design process. Soil organic matter lost as a result of excavation would be replaced during site preparation. To the extent practical, no material will be required for off-site disposal.

6. **Remediation of Favorable Mosquito Breeding Habitat.** Suitable habitat for mosquito breeding is present after wet weather when storm flows collect in the small scour pond at the base of the north slope from an inflowing storm drain channel (Figure 3). This project proposes to eliminate the scour pond and implement erosion control measures to address future scouring. Eliminating the pond will eliminate mosquito breeding habitat at this location. The side channel that drains from the scour pond will also be graded to promote improved drainage. Also, where pepper trees are removed, the surface would be contoured to fill in and level out depressions created by the clearing and grubbing activities, to promote drainage and avoid ponding of water that creates favorable mosquito breeding habitat. The overall approach to the restoration considers the need to reduce favorable mosquito breeding habitat by improving site drainage and to minimize long term ponding in the main channel. The riparian corridor and wet alkali meadow habitats will rely on periodic inundation of flood waters from the main channel that will either infiltrate or drain away from these areas as storm flows return to the channel.
7. **Improve the Creek Water Quality and Benthic Habitat.** Big Canyon Creek is one of the few perennial streams that discharge to Upper Newport Bay. Concentrations of selenium above water quality criteria for selenium (California Toxics Rule chronic freshwater criteria) have been measured in dry weather flows in Big Canyon Creek. To reduce the impact of selenium concentrations in dry weather flows, the proposed project will improve the channel



grading to promote continuous flow and reduce potential ponding of dry weather flows. Selenium in the water column will accumulate and may become more bio-available if water is not continuously flowing and is allowed to pond and potentially change reduction–oxidation reaction conditions with associated increased biological assimilation. By designing the stream restoration to restore and maintain drainage and continuous flow, the potential for selenium transformation to a more biologically assimilated form is minimized.

Restoration of the stream channel will include stabilization of the bed and bank, creation of continuous flow, and restoration of native vegetation. These planned restoration measures will improve the macro-invertebrate benthic habitat along the creek channel. The current condition within the pepper tree groves lacks vegetation and contains areas of ponded water of poor quality. Improved connectivity between the channel and floodplain will also provide for improved habitat for macro-invertebrate benthic communities, fish and other local wildlife that forage in this area.

#### **8. Encourage Public Access and Improve Educational and Recreational Opportunities.**

Big Canyon Nature Park is used by residents and visitors for passive recreation. It is also an important destination for thousands of children participating in the Orange County Department of Education *Inside the Outdoors* program. Existing perimeter trails along the western, northern and eastern sides of Phase 2A will be enhanced with new signage and an improved surface on select segments. No new trails are planned. To provide for enhanced educational opportunities, a viewing area is proposed at the intersection of the eastern and northern perimeter trails where an open dirt area exists. The installation of signage and appropriate fencing will separate the public from sensitive habitats. Along with the restoration of a mosaic of coastal riparian and alkali meadow habitat, trail improvement and informative signage will provide an enhanced experience with the different ecotones in a coastal watershed, as well as education about the importance and difficulty of these large-scale restoration efforts.

## **2 Methodology**

### **2.1 Literature and Database Review**

Pertinent literature resources were reviewed by Environmental Science Associates (ESA) prior to conducting field surveys to determine if special-status biological resources occur within, or are known to occur within the vicinity of, the study area. Literature sources included:

- *Biological Resources Technical Report, Big Canyon Habitat Restoration and Water Quality Improvement Project* (ESA 2016)
- *Biological Resources Inventory Report for the Big Canyon Nature Park Project* (Dudek 2015)
- *Big Canyon Creek Restoration Project Revised Initial Study* (WRA 2009)
- *Big Canyon Creek Historic Tidal Wetlands Conceptual Restoration Plan, Upper Newport Bay* (CCI 2004)

The following biological resource databases were also queried: U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) (USFWS 2018a), California Department of Fish and Wildlife (CDFW, formerly California Department of Fish and Game)

California Natural Diversity Database (CNDDDB) (CDFW 2018a), and California Native Plant Society (CNPS) *Inventory of Rare and Endangered Plants* (CNPS 2018). Database queries included all reported occurrences within the Newport Beach U.S. Geological Survey (USGS) 7.5-minute quadrangle map (quad) in which the study area is located, and all adjacent USGS quadrangles.

A list of potentially occurring special-status species and sensitive natural communities was developed and evaluated for the study area based on the database search results. Potentially occurring special-status species were defined as having a geographic range and habitat requirement similar to those found on, or within the vicinity of, the study area, and thus having the potential to occur.

Available background information, including USGS topographic maps, U.S. Department of Agriculture Soil Survey data (NRCS 2018), National Wetland Inventory maps (USFWS 2018c), and current and historical aerial photographs were used in conjunction with Geographic Information System (GIS) data to characterize soils and to map vegetation communities, and to identify any USFWS-designated critical habitat boundaries or CDFW Natural Community Conservation Planning areas.

## 2.2 Biological Resource Surveys

### 2.2.1 Survey Limitations

This analysis relies to a substantial extent on recent previous surveys conducted by Dudek in 2015 within a larger survey area (referred to herein as “2015 Dudek survey area”) that encompasses the Phase 2A study area. Because focused surveys were conducted within the past three years and the Dudek 2015 survey area included the Phase 2A project site and study area, updated focused species surveys were not warranted to document existing site conditions. In addition, this analysis includes information obtained during recent surveys conducted by ESA in 2015 for Big Canyon Restoration – Phase 1 (referred to herein as “2015 ESA Phase 1 survey area”), which is located within the southern portion of the study area, immediately upstream and adjacent to the Phase 2A project site.

ESA’s current surveys were limited to conducting a jurisdictional delineation and California Rapid Assessment Method (CRAM) assessment within the project site, updating the vegetation map, and confirming current status of the previously identified special-status plant species based on observations during the March 26, 2018 site visit, as well as noting any observations of special-status wildlife species within the study area. Although many of the plants observed on site were not yet in bloom during the March 26, 2018 site visit, most could be readily identified based on observed characteristics. Furthermore, numerous floristic surveys have been conducted in the study area, there is a good record of plant species that have potential to occur.

### 2.2.2 General Biological Resources Survey and Constraints Assessment

A general biological resources survey was conducted within the study area, which includes the 11.32-acre project site (i.e., the area subject to potential direct effects) plus a 500-foot buffer that

extends outside the project site to encompass the total area that could be potentially subject to indirect project effects on biological resources. This study area covers a total of 37.13 acres. The survey was conducted on foot by ESA biologist Maile Tanaka on March 26, 2018, to identify potential biological resources on site and potential constraints associated with the implementation of the proposed project. Special attention was paid to habitats having the potential to support sensitive biological resources (e.g., special-status species and sensitive natural communities). Aerial photography and global positioning system (GPS) technology was used to accurately locate and map any sensitive biological resources encountered.

All plant and wildlife species observed during surveys were identified and recorded into a field notebook. Wildlife species were identified during the field reconnaissance by sight and call or other evidence of presence, such as tracks, nests, scat, and remains, and with use of binoculars and taxonomic keys where appropriate. Plant taxonomy followed Baldwin et al. (2012). Vertebrate taxonomy followed Crother (2018), CalHerps (2018), and Stebbins (2003) for amphibians and reptiles, the American Ornithologists' Union for birds (AOU 2018), and Kaufman et al. (2004) for mammals.

### 2.2.3 Vegetation Mapping

Vegetation mapping was conducted on March 26, 2018 by ESA biologist Maile Tanaka in conjunction with the general biological resources survey. Vegetation communities were characterized based on the presence of dominant plant species and delineated within the study area (Figure 6). In addition, during the surveys, a habitat evaluation was conducted to determine the potential for each habitat area to support sensitive native species. Vegetation communities were initially mapped directly on aerial photographs and then digitized in ArcGIS. Each vegetation community was delineated based on the dominant plants observed on site following CDFW's *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW 2018b). Vegetation community classification and descriptions follow the Orange County Habitat Classification System (Jones and Stokes 1993, Gray and Bramlet 1992) to be consistent with the Orange County Central-Coastal NCCP/HCP and previous vegetation mapping conducted by Dudek in 2015 based on a higher resolution classification system, the CDFW Manual of California Vegetation (Sawyer et al. 2009). Vegetation alliances within each OCHCS vegetation community are described in Section 3. Unique classifications were developed for those land cover types not addressed by either classification system based on field observations of dominant species.

The evaluation of potential wildlife habitat linkages (i.e., wildlife movement corridors) through or across the project site and immediate vicinity was based on the conditions documented during the field reconnaissance surveys, as well as information compiled from literature and analysis of physical barriers observed on aerial photographs. This information was used to identify whether the study area and immediate vicinity could function as an important wildlife movement corridor connecting large open space areas located upstream and downstream from the study area. The discussions in this report related to wildlife movement focus on areas within the study area and immediate vicinity.

## 2.2.4 Jurisdictional Assessment

ESA biologists Julie Stout and Tommy Molioo conducted site visits on March 26 and 27, 2018, to evaluate features within the project site, including waterways and associated habitats, that are potentially subject to U.S. Army Corps of Engineers (USACE), CDFW, Regional Water Quality Control Board (RWQCB), and California Department of Fish and Wildlife (CDFW), and California Coastal Commission (CCC) jurisdiction and regulatory authority. The purpose of the jurisdictional assessment was to identify regulated wetlands and waters of the United States and/or waters of the State of California within the project site.

Prior to conducting the jurisdictional delineation, ESA conducted a review of available background information pertaining to the study area. A desktop analysis using aerial photographs (Google Earth 2018) was conducted to determine the potential limits of CDFW-jurisdictional areas. The following additional resources were also reviewed or used prior to the field surveys and during the desktop delineation of resources:

- *The National Wetland Plant List: 2016 Wetland Ratings* (Lichvar et al. 2016);
- *Natural Resources Conservation Service's (NRCS) Web Soil Survey* (NRCS 2018);
- *Hydric Soils List of California, 2016* (NRCS 2016);
- *National Wetlands Inventory* (USFWS 2018c);
- *Big Canyon Habitat Restoration and Water Quality Treatment Improvement Project Jurisdictional Delineation Report* (ESA 2015);
- *Biological Resources Inventory Report for the Big Canyon Nature Park Project, City of Newport Beach, Orange County, California* (Dudek 2015).

Site maps were generated with available aerial photographs and potentially jurisdictional features were identified and marked with lines and global positioning system (GPS) coordinates to assist in field verification.

The delineation was conducted in accordance with the *U.S. Army Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Arid West Region* (Version 2.0) (USACE 2008a) for waters of the United States. It is assumed that USACE-jurisdictional areas are also under the jurisdiction of the RWQCB. CDFW-jurisdictional waters included riparian habitats associated with watercourses and were delineated to the outer extent of the dripline of riparian vegetation. CDFW jurisdiction also may include the upper portions of streambank areas where these may extend above the elevation characterized by an “ordinary high-water mark” (OHWM) for the purpose of determining USACE jurisdiction. CDFW-jurisdictional areas are also considered to be under the jurisdiction of the CCC, with the exception of upland streambanks lacking hydrophytic vegetation.

**Appendix A** provides the full jurisdictional delineation report, including methods and results.



### 2.2.5 California Rapid Assessment Method Survey

A Riverine CRAM assessment was conducted on the project site by ESA CRAM Practitioners Julie Stout and Tommy Molioo on March 26, 2018, following the *Riverine Wetlands Field Book, Version 6.1* (CWMW 2013). The purpose of the assessment was to evaluate the pre-project condition of Big Canyon Creek within the project site. The selected Assessment Area extends downstream approximately 100 meters from the confluence of a tributary to Big Canyon Creek and continues downstream until it reaches a tree canopy and hydrologic break at a paved Arizona crossing and pedestrian path. The width of the Assessment Area is generally uniform with an approximate width of 25 meters throughout and encompasses the associated pepper tree canopy that contributes non-native vegetative material to Big Canyon Creek.

The following wetland attributes were assessed: Buffer and Landscape Context, Hydrology, Physical Structure, and Biotic Structure. Each attribute is based on the values of individual metrics. A rating of A, B, C, or D was given for each metric pursuant to the *Riverine Wetlands Field Book*, and then converted to a numeric value (A=12, B=9, C=6, and D=3). These numeric values were then used to calculate attribute scores and overall CRAM scores.

**Appendix B** provides the full pre-project CRAM report, including methods and results.

### 2.2.6 Focused Species Surveys

#### ***Rare Plant Survey***

As documented in Appendix C of the 2015 *Biological Resources Inventory* (Dudek 2015), focused special-status plant surveys were conducted by Fred Roberts throughout the 2015 Dudek survey area on April 16, 23, 28; June 22; and July 1, 2015. Surveys were conducted using wandering transects, with special attention paid to areas that represented suitable habitat. Any observed plant species were recorded in the field, and the locations of any special-status plants observed were collected using a global positioning system (GPS) unit.

On March 26, 2018, ESA biologist Maile Tanaka confirmed the specific locations of previously mapped special-status plant species identified within the study area in the 2015 focused special-status plant surveys. This did not include a comprehensive focused special-status plant survey over the study area; however, a list of all other plant species observed during the site visit was recorded.

#### ***Burrowing Owl***

As documented in the 2015 *Biological Resources Inventory* (Dudek 2015), focused surveys for burrowing owl (*Athene cunicularia*) were conducted by Dudek biologists on March 12, April 30, May 26, and July 15, 2015 within the 2015 Dudek survey area. The surveys consisted of slowing walking meandering routes to provide 100% coverage of suitable burrowing owl habitat. Per the 2012 Staff Report on Burrowing Owl Mitigation (CDFG 2012), all burrows greater than 11 centimeters (approximately 4 inches) in diameter (height and width) and greater than 150 centimeters (approximately 59 inches) in depth were documented as potentially suitable burrowing owl burrows, and any potentially suitable burrows were thoroughly examined for burrowing owl sign (i.e., owl pellets, prints, molting feathers, abundant insect remains, etc.).

### **Coastal California Gnatcatcher**

As documented in the 2015 *Biological Resources Inventory* (Dudek 2015), focused surveys for the federally threatened coastal California gnatcatcher (*Poliioptila californica californica*) were conducted by Dudek biologists from on April 20, May 11 and 26, 2015 within the 2015 Dudek survey area. The surveys were conducted in accordance with current USFWS survey protocol (USFWS 1997). Since the Project is located within the Central-Coastal NCCP/HCP plan area, a total of three surveys were conducted between 6:00 AM and 12:00 PM at least 7 days apart within all suitable habitat. A tape of recorded vocalizations was played approximately every 50 to 100 feet to elicit a response to elicit a response if birds were not readily detected. Observations of all wildlife species detected during surveys were recorded.

### **Least Bell's Vireo**

Focused surveys were performed for the federally and state endangered least Bell's vireo (*Vireo bellii pusillus*) by Dudek biologists from on April 20, 30; May 11, 26; June 8, 21; July 1 and 15, 2015 within the 2015 Dudek survey area. The surveys were conducted in accordance with current USFWS survey protocol (USFWS 2001). A total of eight site visits were conducted within all suitable riparian habitat with 10-day intervals between each visit. Observations of all wildlife species detected during surveys were recorded.

### **Southwestern Willow Flycatcher**

Focused surveys were performed for the federally and state endangered southwestern willow flycatcher (*Empidonax traillii extimus*) by Dudek biologists from on May 26; June 8, 21; July 1 and 15, 2015 within the 2015 Dudek survey area. The surveys were conducted in accordance with current USFWS survey protocol (USFWS 2001). A total of five surveys are required within all suitable riparian habitat per the protocol, with one visit between May 15 and May 31, one visit between June 1 and June 21, and three visits between June 22 and July 17. Recorded vocalizations were played to elicit a response if birds were not readily detected. Observations of all wildlife species detected during surveys were recorded.

## **3 Environmental Setting**

### **3.1 Regional Setting**

The study area is located in coastal Orange County within a narrow canyon containing a drainage feature that flows into upper Newport Bay, which connects to the Pacific Ocean. Significant regional geographic features around the area include the peninsular ranges to the northeast and south, and the Pacific Ocean to the southwest. Eleven major watersheds traverse the county, transporting water from the surrounding mountains and deserts to the Pacific Ocean (OCPW 2014). Dense urban development occurs within the general area surrounding the study area in all directions.

The climate in the region is Mediterranean, with dry summers and moderately wet winters; however, the region has experienced severe drought conditions in recent years. The region lies in the semi-permanent high-pressure zone off the eastern Pacific Ocean, resulting in a mild climate tempered by moderate onshore winds, but is occasionally interrupted by periods of hot weather,

winter storms, or Santa Ana winds; however, these interruptions are seasonal and do not generally affect the region for extended periods of time.

Plant communities typically found within the coastal plains of the region include a mosaic of xeric habitats including sage scrub, grassland, and chaparral, with occasional riparian or woodland habitat associated with riverine or other aquatic features. Some creeks in the region are perennial; however, many are intermittent or ephemeral. Estuarine areas are influenced by tidal flows and may also be affected by dry season flows due to urban runoff. These habitats are known to support a wide variety of common plant and wildlife species, as well as many special-status species protected by federal, state, and local regulations.

The study area is located within the Big Canyon Watershed, which includes approximately 1,062 acres that drain to the Upper Newport Bay Ecological Reserve in the City of Newport Beach (Figure 1). Big Canyon Creek, which drains the watershed, is one of the few perennial streams that discharges to Upper Newport Bay, with a sustained dry-weather flow of approximately 0.4 cubic feet per second. The creek flows from southeast to northwest through Big Canyon Nature Park, ultimately draining into Upper Newport Bay (Figure 2). Big Canyon is the only remaining natural, undeveloped portion of the Big Canyon Creek Watershed and the only significant remaining natural canyon on the east side of Newport Bay.

## 3.2 Topography

The study area is characterized topographically by a narrow, moderately sloped floodplain between steeply sloping bluffs; the project site within the canyon ranges in elevation from 25 feet to 50 feet (7 to 16 meters) above mean sea level, and the overall study area ranges in elevation from 15 feet to 100 feet (4 to 31 meters) above mean sea level. A perennial stream identified as Big Canyon Creek traverses the study area and supports degraded riparian habitat. The Phase 2A area is relatively flat bottomed with a very gradual slope from southeast to northwest. The lower area of this “basin-like” flat area is bordered by a trail that wraps around three sides of the site and is situated on a low slope just above the flat area on the north end and southwest side but rises to more than 20 feet above the flat area on the southeast side.

It should be noted that the outlet for Big Canyon Creek at the downstream end of the Phase 2A area functions as a grade control structure. The pipe outlet that conveys flows in Big Canyon Creek under the trail at this point drops more than 6 feet down from the pipe outlet to the next lower level of the creek into Phase 2B. Therefore, Phase 2A is isolated from tidal influence and this grade control is considered “fixed”. This effectively sets a water level within the lower part of Phase 2A. Excavating below the level of the grade control (i.e., the outflow elevation) would create ponding and tend to slow flows and retain drainage within Phase 2A.

## 3.3 Soils

The U.S Department of Agriculture NRCS maps Upper Big Canyon Creek and the surrounding area as Sorrento Loam and Tidal Flats (**Figure 5**).



Tidal flats are remnant map units from before the time that the hydrology of the system was altered. The habitat is no longer tidally influenced but does retain the high salt content within the soil. Despite being altered, the soil exhibited hydric characteristics in the emergent marsh habitat.

The study area is generally quite disturbed. The area has been degraded as the result of decades of dredging spoils from the bay and dumping on site; the quality of soils throughout the study area is generally very poor as a result. There are eight soils classes within the study area according to the Natural Resources Conservation Service (NRCS) (2018). Each soil type in the project vicinity is described below and shown in Figure 5.

### **3.3.1 Anaheim Clay Loam**

Anaheim clay loam 15 to 30 percent slopes soils are located in the western portion of the study area. The soil ranges from slightly acidic to slightly alkaline and is well-drained. Runoff is rapid, and permeability is moderately slow. The vegetation found on this soil series is most often brush, annual grasses, and forbs. Anaheim clay loam soils have the potential to support clay specialist sensitive plant species.

Anaheim clay loam 30 to 50 percent slopes soils are located in the southwestern portion of the study area. The soil ranges from slightly acidic to slightly alkaline and is well-drained. Runoff is rapid to very rapid and permeability is moderate to moderately slow. The vegetation found on this soil series is most often brush, annual grasses, and forbs. Anaheim clay loam soils have the potential to support clay specialist sensitive plant species.

### **3.3.2 Balcom Clay Loam**

Balcom clay loam 30 to 50 percent slopes soils are located in a small portion along the southeastern boundary of the study area. This soil class is well-drained with moderate to moderately slow permeability and a range of low to high runoff. Most commonly found vegetation on this soil series is annual grasses and mustard. Balcom clay loam soils have the potential to support clay specialist sensitive plant species.

### **3.3.3 Beaches**

Beaches consists of sandy, gravelly, or cobbly coastal shores that are washed by tidal and wave action and may be partially covered with water during high tides or stormy periods. These soils are located in the northwestern portion of the study area. Runoff is very slow. These soils support little or no vegetation.

### **3.3.4 Cieneba Sandy Loam**

Cieneba sandy loam 30 to 75 percent slopes eroded soils are located in the northwestern portion of the study area. Cieneba soils are very shallow, fast-draining soils, with low to high runoff and rapid permeability. Chaparral, oak trees, and annual grasses are most commonly associated with this soil series.

### 3.3.5 Marina Loamy Sand

Marina loamy sand 2 to 9 percent slopes soils are located in the northern portion of the study area. Marina soils are somewhat excessively drained soils on terraces near the coast, the soil is medium acid throughout, and runoff is slow to medium. Annual grasses, forbs, and some areas of scattered low-growing brush are the best suited vegetation to grow in soils within the Marina series.

### 3.3.6 Myford Sandy Loam

Myford sandy loam thick-surface 2 to 9 percent slopes soils are located along the study area boundary to the northeast and southwest. Myford soils are deep, well-drained soils, runoff is moderate to rapid, and permeability is very slow. Annual grasses, forbs, and low-growing brush are the best suited vegetation to grow in soils within the Myford series.

### 3.3.7 Sorrento Loam

Sorrento loam 2 to 9 percent slopes soils are located in the southeastern portion of the study area. Sorrento soils are found in alluvial fans and consist of very deep, well-drained soils with negligible to medium runoff and moderate to moderately slow permeability. Vegetation commonly found on this soil consists mostly of annual grasses and forbs, and sycamores (*Platanus* sp.) along drainages.

### 3.3.8 Tidal Flats

Saline coastal tidal flats are located throughout the majority of the central portion of the study area. Tidal flats occur on the border of a saline body of water with fluctuating water levels. These soils are important as they support transitional vegetation between terrestrial and marine habitats, providing fodder, shelter, and protection for local wildlife. Forbs, grasses, and vines are commonly found associated with tidal flats. Tidal flats are remnant map soil units from before the time that the hydrology of the system was altered. The habitat is no longer tidally influenced but does retain the high salt content within the soil.

## 3.4 Vegetation Communities

Throughout much of the study area, the vegetation is indicative of substantial historical disturbance. Non-native Brazilian pepper tree (*Schinus terebinthifolius*), which colonized the area beginning in the 1960's, now dominate much of the study area, while other portions are comprised of native vegetation or intermixed communities with both native and non-native species. As a result, portions of the study area are comprised of a mosaic of different types, levels of disturbance, and status of succession, rather than distinct, well-defined habitat types.

Vegetation communities are mapped in **Figure 6**. The vegetation communities are described below according to the Orange County Habitat Classification System (Jones and Stokes 1993, Gray and Bramlet 1992) and California vegetation alliances (Sawyer et al. 2009). Acreages of each vegetation community in the study area are summarized in **Table 1**. Alternate names for communities are indicated in parentheses. Vegetation communities considered a special-status

vegetation community by CDFW as listed in the California Natural Community List (CDFW 2018c) are also identified.

**TABLE 1**  
**VEGETATION COMMUNITIES**

| Vegetation Community                                     | Acres        | State Rank <sup>1</sup> |
|----------------------------------------------------------|--------------|-------------------------|
| Mixed Arroyo Willow*/Pepper Tree Grove                   | 6.21         | S4                      |
| Freshwater Marsh                                         | 1.82         | S5                      |
| Alkali Heath Marsh Alliance*                             | 0.68         | S3                      |
| Fourwing Saltbush Alliance                               | 1.76         | S4                      |
| Menzies' Goldenbush Scrub Alliance*                      | 0.28         | S3                      |
| Disturbed/Menzies' Goldenbush Scrub Alliance             | 0.10         | None                    |
| California Sagebrush Alliance**                          | 0.81         | S5                      |
| Disturbed/California Sagebrush Alliance                  | 1.75         | None                    |
| Coyote Brush-California Sagebrush Association**          | 4.94         | S5                      |
| California Brittlebush-California Sagebrush Association* | 0.50         | S3                      |
| California Brittlebush Scrub Alliance*                   | 0.32         | S3                      |
| Ornamental/California Brittlebush Alliance               | 0.46         | None                    |
| Non-Native Grassland                                     | 0.90         | None                    |
| Pepper Tree Grove                                        | 6.34         | None                    |
| Ornamental                                               | 4.22         | None                    |
| Non-Native Herbaceous Cover                              | 0.04         | None                    |
| Bare Ground                                              | 2.57         | None                    |
| Phase 1 Restoration Area                                 | 3.44         | None                    |
| <b>Grand Total</b>                                       | <b>37.14</b> |                         |

\* Asterisk indicates that an alliance/association is considered special-status by CDFW.

\*\* Double asterisk indicates that an alliance/association that is a covered habitat type under the NCCP/HCP and is therefore considered a special-status vegetation community.

<sup>1</sup> CDFW state rank denotes the rarity of a vegetation type within the state as follows:

S1 = Critically Imperiled – At very high risk of extirpation due to very restricted range, very few populations or occurrences, very steep declines, severe threats, or other factors.

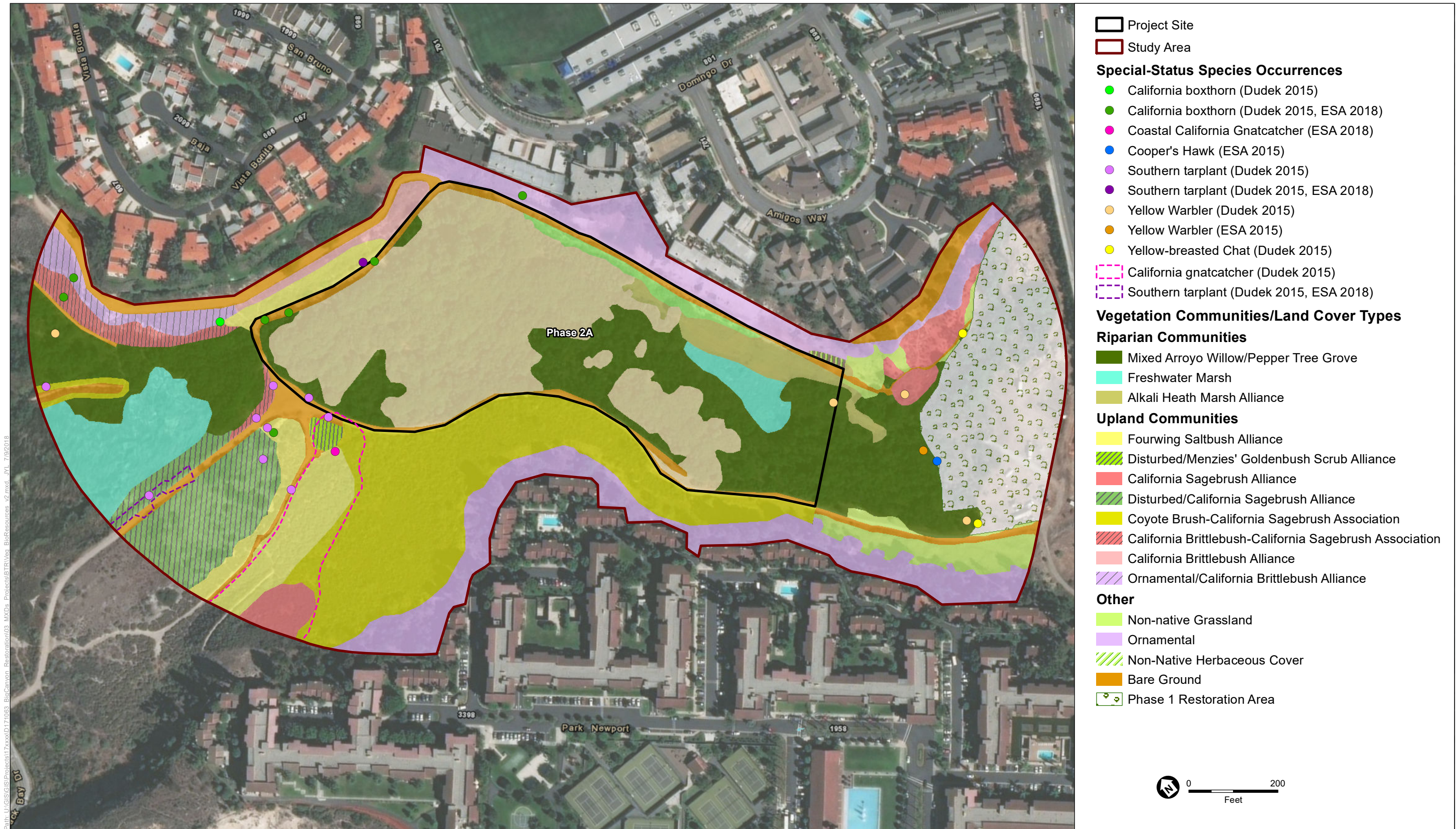
S2 = Imperiled – At high risk of extirpation due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors.

S3 = Vulnerable – At moderate risk of extirpation due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors.

S4 = Apparently Secure – At a fairly low risk of extirpation due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors.

S5 = Secure - At very low or no risk of extirpation due to a very extensive range, abundant populations or occurrences, with little to no concern from declines or threats.





SOURCE: ESRI; Digital Globe 10/21/2016; ESA; Dudek 2015

Big Canyon Restoration - Phase 2A

**Figure 6**  
 Biological Resources



This page intentionally left blank

### 3.4.1 Mixed Arroyo Willow/Pepper Tree Grove

Mixed arroyo willow/pepper tree grove (i.e., Arroyo Willow Thickets (*Salix lasiolepis* Shrubland Alliance) or Arroyo Willow Riparian Forest [OCHCS 7.6]; Ornamental Landscaping [OCHCS 15.5]) is characterized by a canopy cover dominated by mature arroyo willow (*Salix lasiolepis*) with an understory of smaller willows, mulefat (*Baccharis salicifolia*), and variable herbaceous layer. This alliance is found within stream banks and benches, slope seeps, and stringers along drainages (Sawyer et al. 2009). Species associated with this alliance include non-native Brazilian pepper tree, myoporum (*Myoporum laetum*), Shamel ash (*Fraxinus uhdei*), and common sow

thistle (*Sonchus oleraceus*), as well as native toyon (*Heteromeles arbutifolia*), cattail (*Typha* spp.), California rose (*Rosa californica*), California bulrush (*Schoenoplectus californicus*), western ragweed (*Ambrosia psilostachya*), yerba mansa (*Anemopsis californica*), giant wild rye (*Elymus condensatus*). A total of 6.21 acres of mixed arroyo willow/pepper tree grove were mapped primarily within the northwestern and southern portions of the study area.

Arroyo willow thickets are considered a special-status vegetation community by CDFW (61.201.01 – *Salix lasiolepis*) (CDFW 2018c). Pepper tree grove (79.200.00) is not considered a special-status vegetation community by CDFW (CDFW 2018c).

### 3.4.2 Freshwater Marsh

Freshwater marsh (i.e., Cattail Marshes Alliance (*Typha* [*angustifolia*, *domingensis*, *latifolia*] Herbaceous Alliance); OCHCS 6.4) is characterized by a dominance of narrow-leaved cattail, slender cattail, or broad-leaved cattail in the herbaceous layer. This alliance is found within semi-permanently flooded freshwater or brackish marshes in association with soils that are clayey or silty (Sawyer et al. 2009). Species associated with this alliance include coyote brush (*Baccharis pilularis*) and Brazilian pepper tree. A total of 1.82 acres of freshwater marsh occurs within the southeastern portion of the study area.

Freshwater marsh (52.050.05) is not considered a special-status vegetation community by CDFW (CDFW 2018c).

### 3.4.3 Alkali Heath Marsh

Alkali heath marsh (i.e., Alkali Heath Marsh (*Frankenia salina* Herbaceous Alliance or Alkali Marsh [OCHCS 6.3]) is characterized by a dominance of alkali heath (*Frankenia salina*) in the herbaceous and subshrub layers, and portions of this community have a sub-dominance of saltgrass (*Distichlis spicata*). This alliance is found within coastal salt marshes, brackish marshes, alkali meadows, and alkali playas, with soils that are saline, sandy to clayey alluvium (Sawyer et al. 2009). Species associated with this alliance include common woody pickleweed (*Salicornia pacifica*), waxy saltbush (*Atriplex glauca*), Australian saltbush (*Atriplex semibaccata*), and crystalline ice plant (*Mesembryanthemum crystallinum*). A total of 0.68 acre of alkali heath marsh was mapped within the southeastern portion of the study area.

Alkali heath marsh is considered a special-status vegetation community by CDFW (52.500.02 – *Frankenia salina*) (CDFW 2018c).

### 3.4.4 Fourwing Saltbush Alliance

Fourwing saltbush alliance (i.e., fourwing saltbush scrub or *Atriplex canescens* Shrubland Alliance, OCHCS N/A) characterized by a dominance of fourwing saltbush (*Atriplex canescens* var. *canescens*) as the dominant or co-dominant shrub in the canopy. This alliance has an open or intermittent shrub canopy with a variable ground layer, and is found within playas, old beach and shores, dissected alluvial fans, rolling hills (Sawyer et al. 2009). Species associated with the alliance include California brittlebush (*Encelia californica*), California sagebrush (*Artemisia californica*), coastal prickly pear (*Opuntia littoralis*), mule fat (*Baccharis salicifolia*), California boxthorn (*Lycium californicum*), California buckwheat (*Eriogonum fasciculatum*), scarlet pimpernel (*Anagallis arvensis*), and Croceum iceplant (*Melaphora crocea*). A total of 1.76 acres of fourwing saltbush alliance was mapped within the northern and northwestern portions of the study area.

Fourwing saltbush alliance (36.310.01) is not considered a special-status vegetation community by CDFW (CDFW 2018c).

### 3.4.5 Menzies' Goldenbush Scrub Alliance

Menzies' goldenbush scrub (i.e., Menzies's golden bush scrub (*Isocoma menziesii* Shrubland Alliance) or Coastal Goldenbush-Grassland [OCHCS 2.8.3]) is characterized by a dominance or co-dominance of Menzies' goldenbush (*Isocoma menziesii*) in the shrub layer. This alliance is found within alluvial fans, arroyos, and stream terraces (Sawyer et al. 2009). Quailbush (*Atriplex lentiformis*) is co-dominant or sub-dominant in portions of this community. Species associated with this alliance include native toyon, California brittlebush, California buckwheat, bladderpod (*Peritoma arborea*), California sagebrush, black sage (*Salvia mellifera*), lemonadeberry (*Rhus integrifolia*), laurel sumac (*Malosma laurina*), wishbone bush (*Mirabilis laevis*), fourwing saltbush, orange bush monkeyflower (*Mimulus aurantiacus*), coyote brush, Douglas' nightshade (*Solanum douglasii*), coastal prickly pear, and non-native horehound (*Marrubium vulgare*). A total of 0.28 acre of Menzies' goldenbush scrub occurs along the northeastern boundary the study area.

Menzies' goldenbush scrub is considered a special-status vegetation community by CDFW (32.044.04 – *Isocoma menziesii*) (CDFW 2018c).

### 3.4.6 Disturbed/Menzies' Goldenbush Scrub Alliance

Disturbed / Menzies' goldenbush scrub alliance (i.e., Disturbed or Barren [OCHCS 16.1]; Coastal Goldenbush-Grassland [OCHCS 2.8.3]) is not recognized by the Natural Communities List (CDFW 2018c). This mapping unit was used to differentiate areas dominated by disturbance (i.e., unvegetated areas due to previous disturbance and non-native weedy species), but characterized by areas of Menzies' goldenbush and some quailbush. Species associated with this alliance include shortpod mustard (*Hirschfeldia incana*), red-stem filaree (*Erodium cicutarium*), and saltgrass. A total of 0.10 acre of disturbed / Menzies' goldenbush scrub occurs along the northeastern boundary the study area.

### 3.4.7 California Sagebrush Alliance

California sagebrush alliance (i.e., *Artemisia californica* Shrubland Alliance, Sagebrush Scrub [OCHCS 2.3.6]) includes California sagebrush as the dominant shrub in the canopy. This alliance is characterized by a variety of low, aromatic shrubs and soft-woody subshrubs, many of which are drought-deciduous, and has a continuous or intermittent shrub canopy with a variable ground layer (Sawyer et al. 2009). Species associated with the alliance include coyote brush and fourwing saltbush. A total of 0.81 acre of California sagebrush alliance occurs along the western portion of the study area.

California sagebrush alliance (32.010.01) is not considered a special-status vegetation community by CDFW (CDFW 2018c). However, this alliance is recognized as a covered habitat type within the Central-Coastal NCCP/HCP and is therefore considered a special-status vegetation community.

### 3.4.8 Disturbed/California Sagebrush Scrub Alliance

Disturbed / California sagebrush scrub alliance (i.e., Disturbed or Barren [OCHCS 16.1]; Sagebrush Scrub [OCHCS 2.3.6]) is not recognized by the Natural Communities List (CDFW 2018c). This mapping unit was used to differentiate areas dominated by disturbance (i.e., unvegetated areas due to previous disturbance and non-native weedy species), but characterized by areas of California sagebrush. Species associated with this alliance include shortpod mustard, California burclover (*Medicago polymorpha*), alkali heath, Menzies' goldenbush, California brittlebush, mule fat, coyote brush, and quailbush. A total of 1.75 acres of disturbed / California sagebrush scrub alliance occurs along the western boundary the study area.

### 3.4.9 Coyote Brush–California Sagebrush Association

Coyote brush–California sagebrush association (i.e., *Baccharis pilularis*–*Artemisia californica* Association, Sagebrush-Coyote Brush [OCHCS 2.3.12]) includes coyote brush as the dominant shrub with California sagebrush consistently present as a co-dominant or sub-dominant shrub. The shrub layer has a variable canopy with a variable herbaceous layer (Sawyer et al. 2009). A total of 4.94 acres of coyote brush-California sagebrush association occurs along the western portion of the study area.

Coyote brush–California sagebrush association (32.060.05) is not considered a special-status vegetation community by CDFW (CDFW 2018c). However, this alliance is recognized as a covered habitat type within the Central-Coastal NCCP/HCP and is therefore considered a special-status vegetation community.

### 3.4.10 California Brittlebush-California Sagebrush Association

California brittlebush-California sagebrush association (*Encelia californica*–*Artemisia californica* association) includes California brittlebush as the dominant shrub with California sagebrush consistently present as a co-dominant or sub-dominant shrub. The canopy can be continuous or intermittent with a variable herbaceous layer (Sawyer et al. 2009). Species associated with this association include mule fat, blue elderberry (*Sambucus nigra* ssp. *caerulea*), coast live oak (*Quercus agrifolia*), chaparral pricklypear (*Opuntia oricola*), and western sycamore (*Platanus racemosa*). A total of 0.50 acre of California brittlebush-California sagebrush association occurs along the western portion of the study area.

California brittlebush-California sagebrush association (32.050.01) is considered a special-status vegetation community by CDFW (CDFW 2018c).

### 3.4.11 California Brittlebush Scrub Alliance

California brittlebush scrub alliance (i.e., *Encelia californica* Shrubland Alliance, OCHCS N/A) is characterized by California brittlebush as the dominant or co-dominant shrub in the canopy. This alliance forms an intermittent to continuous shrub layer with variable herbaceous layer (Sawyer et al. 2009). Species associated with the alliance include California sagebrush, California buckwheat, coyote brush, quailbush, fourwing saltbush, bladderpod, and horehound. A total of 0.32 acre of California brittlebush scrub alliance occurs along the northern portion of the study area.

California brittlebush scrub alliance (32.050.02) is considered a special-status vegetation community by CDFW (CDFW 2018c).

### 3.4.12 Ornamental/California Brittlebush Alliance

Ornamental/California brittlebush alliance (i.e., Ornamental Landscaping [OCHCS 15.5]; *Encelia californica* Shrubland Alliance, OCHCS N/A) is not recognized by the Natural Communities List (CDFW 2018c). This mapping unit was used to differentiate areas dominated by ornamental landscaping plants, primarily consisting of *Croceum* iceplant, but characterized also by areas of California brittlebush as the sub-dominant shrub. A total of 0.46 acre of ornamental/California brittlebush alliance occurs along the northwestern boundary the study area.

### 3.4.13 Non-Native Grassland

Non-native grasslands (Annual Grassland [OCHCS 4.1]) are characterized by a dense to sparse cover of annual non-native grasses, which can reach up to one meter in height. Often, native annual forbs are dispersed among the non-native grasses, and are sometimes more abundant than the grasses. Germination occurs in the late fall and flowering and seed-set occurs in the spring; plants dry out and die-off in the dry summer months. Non-native grasslands typically support wild oat (*Avena* spp.), brome (*Bromus* spp.), filaree (*Erodium* spp.), and other non-native annual species. This community usually occurs in areas of previous disturbance, sometimes associated with grazing and fallow agricultural fields, located on fine-textured, well-drained soils that are moist in winter but very dry during summer months. A total of 0.90 acre of non-native grassland were mapped within the southern portion of the study area.

Non-native grasslands are not considered a special-status vegetation community by CDFW (CDFW 2018c).

### 3.4.14 Pepper Tree Grove

Pepper tree grove (i.e., Ornamental Landscaping or Pepper Tree or Myoporum Groves (*Schinus terebinthifolius*] – *Myoporum laetum*)) is characterized by a dominance of non-native Brazilian pepper tree with a continuous tree canopy and minimal shrub and herbaceous layer. Portions of this community have a strong co-dominance of myoporum. Species associated with this alliance include non-native Shamel ash, Mexican fan palm (*Washingtonia robusta*), nettleleaf goosefoot (*Chenopodium murale*), horehound, curly dock (*Rumex crispus*), blessed milkthistle (*Silybum marianum*), bristly oxtongue (*Helminthotheca echioides*), dwarf nettle (*Urtica urens*), cheeseweed (*Malva parviflora*), and garden nasturtium (*Tropaeolum majus*), as well as native poison oak (*Toxicodendron diversilobum*) and common bedstraw (*Galium aparine*). A total of 6.34 acres of pepper tree grove occurs within the northern and central portions of the study area, which is the most abundant community on site.

Pepper tree grove (79.200.00) is not considered a special-status vegetation community by CDFW (CDFW 2018c).

### 3.4.15 Ornamental

Ornamental (Ornamental Landscaping [OCHCS 15.5]) is a land cover type characterized by parks and ornamental plantings, consisting of introduced species of trees and other landscaping that is actively managed. Ornamental plantings, primarily consisting of iceplant, dominate the slopes below the residential development which lines the tops of the canyon. Other species observed include crystalline iceplant (*Mesembryanthemum crystallinum*), sea-fig (*Carpobrotus chilensis*), Croceum iceplant, gum tree (*Eucalyptus* sp.), jade plant (*Crassula ovata*), waxy saltbush, and Bermuda buttercup (*Oxalis pes-caprae*), as well as native California boxthorn. A total of 4.22 acres of ornamental land cover is present within the study area.

Ornamental land cover is not considered a special-status vegetation community by CDFW (CDFW 2018c).

### 3.4.16 Non-Native Herbaceous Cover

Non-native herbaceous cover (Ruderal [OCHCS 4.6]) is a land cover type characterized by weedy species, usually associated with pioneering herbaceous plants that readily colonize disturbed ground. Species associated with this community include crystalline iceplant, black mustard (*Brassica nigra*), shortpod mustard, California burclover, nettleleaf goosefoot, and castor bean (*Ricinus communis*). A total of 0.04 acre of non-native herbaceous cover is present within the study area.

Non-native herbaceous cover is not considered a special-status vegetation community by CDFW (CDFW 2018c).

### 3.4.17 Bare Ground

Bare ground (i.e., Disturbed or Barren [OCHCS 16.1]) includes lands that have been significantly disturbed as the result of human activity. The vegetation present in these areas is negligible. Bare ground on site consists of an unpaved dirt trail for public access around the western, northern, and eastern perimeter of the project site. A total of 2.57 acres of bare ground occurs within the study area.

This land cover type is not recognized by the CDFW Natural Community List (CDFW 2018c) because it is unvegetated.

### 3.4.18 Phase 1 Restoration Area

Immediately upstream and to the southeast of the Phase 2A project site is the Phase 1 Restoration Area, which was previously implemented by the City of Newport Beach. Since this area is an active restoration site that has been planted but is still in progress, this community has been mapped as a restoration area, which comprises 3.44 acres within the southern portion of the study area.

This land cover type is not recognized by the CDFW Natural Community List (CDFW 2018c) since it is a restoration area that is in progress.

## 3.5 CRAM Assessment Results

**Figure 7** shows the location of the AA within the project site and **Table 2** provides a summary of the CRAM results. The overall CRAM score for the pre-construction AA was low (64), mainly due to a very low score for the Biotic Structure attribute. Other low-scoring metrics, such as buffer width and water source, are reflective of the highly urbanized environment of the project area and cannot be changed. However, the project is expected to significantly improve the scores for all Biotic Structure metrics by greatly reducing the presence of invasive species and allowing for increased plant community diversity and structural variation in vegetation. It is recommended that a CRAM assessment be conducted after the project is complete, especially after the restoration has resulted in self-sustaining habitat conditions, to measure the functional improvement of the habitat within the project site. The full CRAM report is included in **Appendix B**.





SOURCE: ESRI; Digital Globe 10/21/2016

Big Canyon Restoration - Phase 2A

**Figure 7**  
CRAM Assessment Area 2A



**TABLE 2**  
**SUMMARY OF CRAM SCORES**

| <b>Attributes and Metrics</b>       | <b>Score<sup>1</sup></b> |
|-------------------------------------|--------------------------|
| <b>Buffer and Landscape Context</b> | <b>79.7</b>              |
| Stream Corridor Continuity          | A                        |
| Buffer Submetrics                   |                          |
| % of AA with Buffer                 | A                        |
| Average Buffer Width                | C                        |
| Buffer Condition                    | C                        |
| <b>Hydrology</b>                    | <b>83.3</b>              |
| Water Source                        | C                        |
| Channel Stability                   | A                        |
| Hydrologic Connectivity             | A                        |
| <b>Physical Structure</b>           | <b>75.0</b>              |
| Structural Patch Richness           | B                        |
| Topographic Complexity              | B                        |
| <b>Biotic Structure</b>             | <b>25</b>                |
| Plant Community Submetrics          | D                        |
| No. of Plant Layers                 | D                        |
| No. of Co-dominants                 | D                        |
| Percent Invasion                    | D                        |
| Horizontal Interspersion            | D                        |
| Vertical Biotic Structure           | D                        |
| <b>Overall AA Score</b>             | <b>65.7</b>              |

<sup>1</sup> Metrics (i.e. stream corridor continuity, water source, etc.) are scored A through D with A representing the highest/best score and D representing the lowest. The metrics scores are given weighted values and used to calculate the scores for each attribute (i.e. buffer and landscape context, hydrology, etc.). Attributes are scored as a percentage out of 100.

### 3.6 Jurisdictional Resources

**Table 3** and **Figures 7a** and **7b** identify and quantify the areas regulated by the CCC, USACE, RWQCB, and California Department of Fish and Game within the project site. A more detailed description of jurisdictional areas is presented in the Jurisdictional Delineation Report, included in Appendix A (ESA 2018).

**TABLE 3**  
**JURISDICTIONAL AREAS**

| <b>Jurisdiction Types</b> | <b>Acres</b> |
|---------------------------|--------------|
| USACE/RWQCB Wetlands      | 6.13         |
| USACE/RWQCB Non-Wetlands  | 2.93         |
| CDFW Riparian             | 10.47        |
| CCC Wetland               | 10.47        |
| SOURCE: ESA, 2018         |              |

#### 3.6.1 U.S. Army Corps of Engineers/Regional Water Quality Control Board Jurisdiction

Jurisdictional wetland and non-wetland “waters of the U.S.” (WOTUS) regulated by the USACE are found within the project site and total 9.06 acres. Non-wetland WOTUS cover portions of the floodplain not meeting all three wetland parameters and amount to 2.93 acres within the project site. Non-wetland WOTUS were comprised of vegetated floodplains with mixed arroyo willow/pepper tree grove and pepper tree grove vegetation communities. Wetland WOTUS total 6.13 acres and include freshwater marsh, alkali heath marsh alliance, mixed arroyo willow/pepper tree grove, and pepper tree grove vegetation communities within the Big Canyon Creek floodplain meeting wetland parameters for hydrophytic vegetation, hydric soils, and wetland hydrology.

All areas mapped as subject to USACE jurisdiction also fall within the Section 401 authority of the RWQCB. Therefore, approximately 6.13 acres of wetland and 2.93 acres of non-wetland “waters of the State” subject to RWQCB regulatory authority occur within the project site.

#### 3.6.2 California Department of Fish and Game Jurisdiction

Areas within CDFW jurisdiction refer to streambeds and associated riparian vegetation and wetlands. All areas under USACE and RWQCB jurisdiction were also determined to be subject to CDFW jurisdiction. In addition, areas of riparian habitat that extend beyond the OHWM and onto upland streambanks are also regulated by CDFW. A total of 10.47 acres of CDFW jurisdictional areas occur within the project site (which includes the 9.06 acres of overlapping USACE jurisdiction).



SOURCE: ESRI; Digital Globe 10/21/2016; ESA

Big Canyon Restoration - Phase 2A

**Figure 8a**  
USACE/RWQCB Jurisdiction





SOURCE: ESRI; Digital Globe 10/21/2016; ESA

Big Canyon Restoration - Phase 2A

**Figure 8b**  
 CDFW/CCC Jurisdiction

### 3.6.3 California Coastal Commission Jurisdiction

All areas mapped as CDFW jurisdictional areas are also mapped as CCC wetlands, according to their respective wetland definitions, with the exception of upland streambanks. A total of 10.47 acres of CCC-regulated wetlands occur in the project site.

## 3.7 Flora

Some of the study area has been substantially disturbed historically and has since been invaded with non-native and invasive species, particularly where the Brazilian pepper trees have displaced native vegetation over the majority of the Phase 2A site. The habitat value in areas that lack native vegetation is significantly reduced as compared to more natural areas. Some moderate quality riparian habitat is also present, which provides suitable habitat for a variety of wildlife species, such as riparian birds and raptors. A full plant species compendium is included in **Appendix C**. Special-status plant species are discussed in Section 3.9.3.

## 3.8 Wildlife Species

Although much of the study area is composed of non-native pepper tree forest, a variety of wildlife species were observed within the larger study area. Several of the species observed are highly adapted to urban environments, such as American crow (*Corvus brachyrhynchos*), northern mockingbird (*Mimus polyglottos*), and European starling (*Sturnus vulgaris*). Due to surrounding developed residential areas, it is likely that the area also supports urban-adapted mammals, such as raccoon (*Procyon lotor*), opossum (*Didelphis* sp.), and coyote (*Canis latrans*). Other species observed included turkey vulture (*Cathartes aura*), bushtit (*Psaltiriparus minimus*), song sparrow (*Melospiza melodia*), spotted towhee (*Pipilo maculatus*), common yellowthroat (*Geothlypis trichas*), and Allen's hummingbird (*Selasphorus sasin*). A compendium of the wildlife species noted in the study area is included in **Appendix C**. Special-status plant species are discussed in Section 3.9.3.

## 3.9 Special-Status Biological Resources

### 3.9.1 Special-Status Vegetation Communities

Sensitive natural communities are designated as such by various resource agencies, such as the CDFW, or in local policies and regulations. These communities are generally considered to have important functions or values for wildlife and/or are recognized as declining in extent or distribution, and may be considered threatened enough to warrant some level of protection. Sensitive natural communities include those that are identified in the CDFW *List of California Natural Communities* (CDFW 2018c). The CDFW state rank denotes the rarity and endangerment of a vegetation type within the state as described below. In addition, riparian habitats and coastal sage scrub are considered sensitive habitats and are protected by the CCC through the Local Coastal Program (LCP).

### **State Rank**

**S1** = Critically Imperiled – At very high risk of extirpation due to very restricted range, very few populations or occurrences, very steep declines, severe threats, or other factors.

**S2** = Imperiled – At high risk of extirpation due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors.

**S3** = Vulnerable – At moderate risk of extirpation due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors.

**S4** = Apparently Secure – At a fairly low risk of extirpation due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors.

**S5** = Secure - At very low or no risk of extirpation due to a very extensive range, abundant populations or occurrences, with little to no concern from declines or threats.

Based on the state ranks, seven special-status vegetation communities occur within the study area: mixed arroyo willow/pepper tree grove, alkali heath marsh alliance, Menzies' goldenbush scrub alliance, California sagebrush alliance, coyote brush-California sagebrush association, California brittlebush-California sagebrush association, and California brittlebush scrub alliance.

### **3.9.2 Potentially Occurring Special-Status Species**

“Special-status” species are plants and animals that are listed under the California Endangered Species Act (CESA) or Federal Endangered Species Act (FESA), as well as species protected under other regulations and species that are considered sufficiently rare or sensitive by the scientific community to be considered rare. Special-status species are categorized as follows:

- Species listed or proposed for listing as threatened or endangered, or are candidates for possible future listing as threatened or endangered, under CESA or FESA.
- Species protected under the federal Bald and Golden Eagle Protection Act.
- Species that meet the definitions of rare or endangered under CEQA (State CEQA Guidelines § 15380).
- Plants listed as rare under the California Native Plant Protection Act (NPPA; Fish and Game Code § 1900 et seq.).
- Plants considered by the CNPS to be rare, threatened, or endangered in California.
- Species covered under an adopted Natural Community Conservation Plan (NCCP)/Habitat Conservation Plan (HCP).
- CDFW Special Animals and wildlife species of special concern.
- Wildlife fully protected in California (Fish and Game Code § 3511, 4700, and 5050).

Based on the literature/database review and field reconnaissance, special-status species were evaluated for their potential to occur in the study area or immediate vicinity, using the following definitions:

**Unlikely:** The study area or immediate vicinity do not support suitable habitat for a particular species, and therefore the species is unlikely to occur within the area.

**Low Potential:** The study area or immediate vicinity only provide low-quality or very limited habitat for a particular species. In addition, the study area may lie outside the known geographic or elevational range for a particular species.

**Moderate Potential:** The study area or immediate vicinity provide suitable habitat for a particular species. However, the habitat or substrate may be limited or the desired vegetation assemblage or density is less than ideal.

**High Potential:** The study area or immediate vicinity provides high-quality suitable habitat conditions for a particular species. Additionally, known populations of the species may occur in the study area or immediate vicinity.

**Present:** The species was observed within the study area during relevant biological surveys or other project visits.

Of the 55 special-status plant species considered for their potential to occur within the study area, two species were observed within the study area (detailed in Section 3.9.3 below), three have a high potential to occur, and five species have a moderate potential to occur (Table 4). The remaining 45 species were assessed as having either an unlikely or low potential to occur.

Of the 45 special-status wildlife species considered for their potential to occur in the study area, five species were observed within the study area during various biological surveys, four species have a high potential to occur, and eleven species have a moderate potential to occur (Table 5). The remaining 25 wildlife species were determined to have an unlikely to low potential to occur.

**Tables 4 and 5** include the 10 special-status plants species and 20 special-status wildlife species that were considered to have a moderate to high potential to occur, as well as those that were observed on site during the 2015 surveys.

**TABLE 4**  
**SPECIAL-STATUS PLANT SPECIES WITH THE POTENTIAL TO OCCUR WITHIN THE STUDY AREA**

| Species                                                                     | Status <sup>1</sup><br>Federal/State,<br>CRPR/County | Habitat Requirements                                                                                                                                                                                                                                                                                              | Potential to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aphanisma<br>( <i>Aphanisma blitodes</i> )                                  | --/1B.2/Not covered                                  | Annual herb found in coastal bluff scrub, coastal dunes, and coastal scrub; sandy soils. Blooming period is March – June and found at elevations from 1 - 305 m.                                                                                                                                                  | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity. One source indicates this species was observed “on south facing bluff in Big Canyon” in 2005, but no coordinates provided.                                                                                                                                                                                                                                                     |
| Coulter’s saltbush<br>( <i>Atriplex coulteri</i> )                          | --/1B.2/Not covered                                  | Found on alkaline or clay substrate within coastal bluff scrub, coastal dune, coastal scrub and valley and foothill grassland habitats. Blooming period is March – October. Occurs at elevations from 3 - 460 m.                                                                                                  | <b>Moderate.</b> Suitable habitat is present on-site or within the immediate vicinity. One previously recorded occurrence was identified near the mouth of San Diego Creek.                                                                                                                                                                                                                                                                                                       |
| South Coast saltscale<br>( <i>Atriplex pacifica</i> )                       | --/1B.2/Not covered                                  | Found within chenopod scrub, coastal bluff and coastal scrub habitats. Blooming period is March – October. Occurs at elevations up to 140 m.                                                                                                                                                                      | <b>Moderate.</b> Suitable habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                                                                                                                            |
| Parish’s brittscale<br>( <i>Atriplex parishii</i> )                         | --/1B.1/Not covered                                  | Found in alkali meadows, vernal pools, playas and chenopod scrub. Associated with alkaline soils. Blooming period is June – October. Occurs at 25 – 1900 m elevation.                                                                                                                                             | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity. However, unlikely since this species has not been seen in Orange County since 1907.                                                                                                                                                                                                                                                                                            |
| Davidson’s saltscale<br>( <i>Atriplex serenana</i> var. <i>davidsonii</i> ) | --/1B.2/Not covered                                  | Found on alkaline substrate within coastal bluff scrub and coastal scrub habitats. Blooming period is from April – October and occurs at elevations from 10 - 200 m.                                                                                                                                              | <b>Moderate.</b> Limited, low quality habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                                                                                                                |
| lucky morning-glory<br>( <i>Calystegia felix</i> )                          | --/1B.1/Not covered                                  | Found in meadows and seeps (sometimes alkaline), riparian scrub (alluvial). Historically associated with wetland and marshy places, but possibly in drier situations as well. Blooming period is March – September and occurs at elevations of 30 - 215 m.                                                        | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                                                                                                                |
| Southern tarplant<br>( <i>Centromadia parryi</i> ssp. <i>australis</i> )    | --/1B.1/Not covered                                  | Found in the margins of marshes and swamps, vernal mesic valley and foothill grasslands, and vernal pool habitats. This species is commonly found in disturbed areas, in relatively close proximity to a seasonal or perennial water source. Blooming period is May – November; occurs at elevations up to 425 m. | <b>Present.</b> During the 2015 focused plant surveys, occurrences of southern tarplant were documented within 9 locations within the Phase 2A study area, but outside of the Phase 2A project site (Dudek 2015). Young tarplants were observed during ESA’s March 2018 site visit in two locations; although tarplant was not observed in the other 7 locations, this may have been due to the timing of the site visit (i.e., too early in the season for this annual species). |
| Southwestern spiny rush<br>( <i>Juncus acutus</i> ssp. <i>leopardii</i> )   | --/4.2/Not covered                                   | Perennial rhizomatous herb found in coastal dunes (mesic), meadows and seeps (alkaline seeps), and marshes and swamps (coastal salt). Occurs from 3 – 900 m elevation; blooming period is March – June.                                                                                                           | <b>Present</b> Suitable habitat is present on-site and this species has been observed in the immediate vicinity within Big Canyon (Dudek 2015), but outside of the Phase 2A project site.                                                                                                                                                                                                                                                                                         |



| Species                                                | Status <sup>1</sup><br>Federal/State,<br>CRPR/County | Habitat Requirements                                                                                                                                                                               | Potential to Occur                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| California box-thorn<br>( <i>Lycium californicum</i> ) | --/4.2/Not<br>covered                                | Perennial shrub found in coastal bluff scrub and coastal scrub at 5 – 150 m elevation. Blooming period is December – August.                                                                       | <b>Present.</b> During the 2015 focused plant surveys, occurrences of California box-thorn were documented within 8 locations within the Phase 2A study area, but outside of the Phase 2A project site (Dudek 2015). During ESA's March 2018 site visit, 7 of the 8 locations were confirmed; 1 location was not confirmed to restricted accessibility but is presumed to be extant. |
| Woolly seablite<br>( <i>Suaeda taxifolia</i> )         | --/4.2/Not<br>covered                                | Perennial evergreen shrub found in coastal bluff scrub, coastal dunes, marshes and swamps (margins of coastal salt). Blooming period is January – December and occurs at elevations from 0 – 50 m. | <b>Moderate.</b> Known from Big Canyon area but not found within the Phase 2A project site. Limited habitat is present in the study area. This species is known or expected to occur closer to the bay but above the high tide line.                                                                                                                                                 |

<sup>1</sup> Description of status codes:

FE = Listed as endangered under the FESA

FT = Listed as threatened under the FESA

SE = Listed as endangered under the CESA

ST = Listed as threatened under the CESA

CRPR = California Rare Plant Rank (CNPS 2018)

CRPR 1B.1 = Seriously threatened in California and elsewhere

CRPR 1B.2 = Fairly threatened in California and elsewhere

CRPR 1B.3 = Not very threatened in California and elsewhere

CRPR 2B.2 = Fairly threatened in California, but more common elsewhere

CRPR 4.2 = Fairly threatened in California, placed on a watch-list due to limited distribution throughout its range

CRPR 4.3 = Plant of limited distribution, not very threatened in California

Covered = Covered under the Orange County NCCP/HCP

Conditionally Covered = Conditionally Covered under the Orange County NCCP/HCP

Not covered = Not covered under the Orange County NCCP/HCP

**TABLE 5**  
**SPECIAL-STATUS WILDLIFE SPECIES WITH THE POTENTIAL TO OCCUR WITHIN THE STUDY AREA**

| Species                                                        | Status <sup>1</sup><br>Federal/State/County | Habitat Requirements                                                                                                                                                                                                                                                                                                                                                                                                     | Potential to Occur                                                                                                                                                                                    |
|----------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REPTILES</b>                                                |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                       |
| Orange-throated whiptail<br>( <i>Aspidoscelis hyperythra</i> ) | --/SC/Covered                               | Species requires intact habitat within chaparral, cismontane woodland and coastal scrub plant communities. Prefers washes & other sandy areas with patches of brush & rocks. Perennial plants necessary for its major food-termites.                                                                                                                                                                                     | <b>Moderate.</b> Limited habitat is present on-site or within the immediate vicinity.                                                                                                                 |
| <b>BIRDS</b>                                                   |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                       |
| Cooper's hawk<br>( <i>Accipiter cooperii</i> )                 | --/WL/Not covered                           | Found in riparian areas, and open woodlands, chiefly of open, interrupted or marginal type. Nests in riparian growths of deciduous trees and live oak woodlands.                                                                                                                                                                                                                                                         | <b>Present.</b> This species was observed on-site during 2015 biological surveys.                                                                                                                     |
| Sharp-shinned hawk<br>( <i>Accipiter striatus</i> )            | --/WL/Covered                               | Ponderosa pine, black oak, riparian deciduous, mixed conifer & Jeffrey pine habitats. Prefers riparian areas. This species does not nest in coastal California.                                                                                                                                                                                                                                                          | <b>High.</b> Suitable foraging habitat is present on-site or within the immediate vicinity, but does not nest in coastal California. Observed within project vicinity during 2003 surveys (CCI 2004). |
| Great blue heron*<br>( <i>Ardea herodias</i> )                 | --/--/Not covered                           | Colonial nester in tall trees, cliff sides, and sequestered spots on marshes. Rookery sites in close proximity to foraging areas: marshes, lake margins, tide-flats, rivers and streams, wet meadows.                                                                                                                                                                                                                    | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity. However, nesting habitat is very limited; not expected to nest in the Phase 2A project site.       |
| Swainson's hawk<br>( <i>Buteo swainsoni</i> )                  | BCC/ST/Not covered                          | Breed in desert, shrub steppe, agricultural, and grassland habitats. Nests in a variety of tree species in existing riparian forests, remnant riparian trees, shade trees at residences and alongside roads, planted windbreaks, and solitary upland oaks. Typically do not nest in large continuous patches of woodland other than along edges next to open habitats. This species does not nest in coastal California. | <b>Moderate.</b> Limited to foraging only during migration – does not breed in the area. Suitable but limited foraging habitat is present on-site or within the immediate vicinity.                   |

| Species                                                                 | Status <sup>1</sup><br>Federal/State/County | Habitat Requirements                                                                                                                                                                                                                    | Potential to Occur                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Northern harrier<br>( <i>Circus cyaneus</i> )                           | --/SC/Covered                               | Coastal salt & fresh-water marsh. Nest & forage in grasslands, from salt grass in desert sink to mountain cienagas. Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.   | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity. Observed within project vicinity during 2003 surveys (CCI 2004). However, nesting habitat is very limited and low quality; not expected to nest in Project vicinity.                   |
| White-tailed kite<br>( <i>Elanus leucurus</i> )                         | --/FP/Not covered                           | Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching. | <b>Moderate.</b> Suitable but limited potential nesting habitat is present on-site or within the immediate vicinity. Observed foraging within project vicinity during 2003 surveys (CCI 2004) and on-site in 2015 (Dudek 2015).                                                           |
| Southwestern willow flycatcher<br>( <i>Empidonax traillii extimus</i> ) | FE/SE/Conditionally Covered                 | Breeds in dense willow-dominated riparian habitat near open water.                                                                                                                                                                      | <b>Moderate.</b> Limited habitat is present on-site and in the immediate vicinity. No southwestern willow flycatcher were observed during the 2015 focused riparian bird surveys (Dudek 2015).                                                                                            |
| Merlin<br>( <i>Falco columbarius</i> )                                  | --/WL/Not covered                           | Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands & deserts, farms & ranches. Clumps of trees or windbreaks are required for roosting in open country. Winter visitor.                                          | <b>Moderate.</b> Suitable but limited foraging habitat is present. This species may visit occasionally in winter but is not known to nest this far south.                                                                                                                                 |
| American peregrine falcon<br>( <i>Falco peregrinus anatum</i> )         | DL/DL, FP, BCC/Covered                      | Known to occur near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nest consists of a scrape or a depression or ledge in an open site.                                          | <b>Moderate.</b> Suitable foraging habitat is present on-site or within the immediate vicinity. Observed within project vicinity during 2003 surveys (CCI 2004). Marginally suitable nesting habitat occurs within the vicinity on bluff faces, but not within the Phase 2A project site. |
| Yellow-breasted chat<br>( <i>Icteria virens</i> )                       | --/SC/Not covered                           | Known to occur within riparian forest, scrub and woodland habitats.                                                                                                                                                                     | <b>Present.</b> This species was observed on-site during 2015 biological surveys.                                                                                                                                                                                                         |
| Least bittern<br>( <i>Ixobrychus exilis</i> )                           | BCC/SC/Not covered                          | Colonial nester in marshlands and borders of ponds and reservoirs which provide ample cover. Nests usually placed low in tules, over water.                                                                                             | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                        |

| Species                                                                          | Status <sup>1</sup><br>Federal/State/County | Habitat Requirements                                                                                                                                                                                                         | Potential to Occur                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Loggerhead shrike<br>( <i>Lanius ludovicianus</i> )                              | BCC/SC/Not covered                          | Broken woodlands, savannah, pinyon-juniper, Joshua tree, & riparian woodlands, and desert oases, scrub & washes. Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting. | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                |
| Osprey<br>( <i>Pandion haliaetus</i> )                                           | --/WL/Not covered                           | Ocean shore, bays, fresh-water lakes, and larger streams. Large nests built in tree-tops within 15 miles of a good fish-producing body of water.                                                                             | <b>Present.</b> Suitable habitat is present on-site or within the immediate vicinity. Observed foraging in the project vicinity during 2003 surveys (CCI 2004), and on the border of the study area during 2015 surveys (Dudek 2015). Osprey are known to nest at the Back Bay Science Center area approximately one mile to the south, but not expected within the project site. |
| Coastal California gnatcatcher<br>( <i>Poliophtila californica californica</i> ) | FT/SC/Covered                               | Species is an obligate, permanent resident of coastal sage scrub in southern California. Low, coastal sage scrub in arid washes, on mesas and slopes.                                                                        | <b>Present.</b> This species was observed within the study area (but outside of the Phase 2A project site) during 2015 biological surveys.                                                                                                                                                                                                                                        |
| Yellow warbler<br>( <i>Setophaga petechia</i> )                                  | BCC/SC/Not covered                          | Riparian plant associations in close proximity to water. Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.                | <b>Present.</b> This species was observed on-site during 2015 biological surveys.                                                                                                                                                                                                                                                                                                 |
| Least Bell's vireo<br>( <i>Vireo bellii pusillus</i> )                           | FE/SE/Conditionally Covered                 | Known to occur in riparian forest, scrub, and woodland habitats. Nests primarily in willow, mule fat, or mesquite habitats.                                                                                                  | <b>High.</b> Suitable habitat is present on-site or within the immediate vicinity. However, no least Bell's vireo were observed within the study area during the 2015 focused riparian bird surveys (Dudek 2015). This species was reported within the study area in previous years (RMMP 2016).                                                                                  |
| <b>MAMMALS</b>                                                                   |                                             |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                   |
| Southern California saltmarsh shrew<br>( <i>Sorex ornatus salicornicus</i> )     | --/SC/Not covered                           | Known to occur in salt marsh habitat within Southern California. Requires dense vegetation and woody debris for cover.                                                                                                       | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                |

| Species                                                          | Status <sup>1</sup><br>Federal/State/County | Habitat Requirements                                                                                                                                                                                                              | Potential to Occur                                                                            |
|------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Pallid bat<br>( <i>Antrozous pallidus</i> )                      | --/SC/Not covered                           | Known to occur in a wide variety of habitats including deserts, grasslands, shrublands, woodlands & forests. Most common in open, dry habitats with rocky areas for roosting; particularly associated with buildings and bridges. | <b>Moderate to High.</b><br>Suitable habitat is present on-site or in the immediate vicinity. |
| San Diego desert woodrat<br>( <i>Neotoma lepida intermedia</i> ) | --/SC/Covered                               | Known to occur in coastal scrub, desert scrub, chaparral, cactus, and rocky habitats.                                                                                                                                             | <b>Moderate to High.</b><br>Suitable habitat is present on-site or in the immediate vicinity. |

<sup>1</sup> Description of status codes:

FE = Listed as endangered under the FESA

FT = Listed as threatened under the FESA

DE = Delisted under the FESA

SE = Listed as endangered under the CESA

ST = Listed as threatened under the CESA

FP = Listed as fully protected under CDFW code

SC = Species of Special Concern

BCC = Bird of Conservation Concern

WL = Watch listed

Covered = Covered under the County of Orange NCCP/HCP

Conditionally Covered = Conditionally Covered under the County of Orange NCCP/HCP

Not covered = Not covered under the County of Orange NCCP/HCP

\*Great blue heron is not a special-status species, but is designated a "Special Animal" by California Department of Fish and Wildlife because of the close association it has with estuarine and emergent wetland habitats, which are continuing to decline in California.

**Appendix D** provides a complete list of the 99 species that were evaluated, and includes the sensitivity status, habitat preferences, potential to occur on site, and justification. Sensitive species occurrences from the USFWS and CNDDDB occurrences databases within the vicinity of the study area are shown in **Figure 9**.

### 3.9.3 Special-Status Species Observed on Site

#### *Special-Status Plant Species*

Two special-status plant species, southern tarplant (CRPR 1B.1) and California boxthorn (CRPR 4.2), were observed in the study area during surveys conducted by Dudek (2015) and confirmed by ESA during the March 26, 2018 site visit (as shown on Figure 6).

### 3.9.4 Special-Status Wildlife Species

Coastal California gnatcatcher (Federally Threatened [FT], Species of Special Concern [SC]) was observed within the study area (outside of the project site to the west) during ESA's March 26, 2018 site visit. In addition, during 2015 focused surveys, Dudek biologists observed one pair of coastal California gnatcatchers and potentially one separate individual coastal California gnatcatcher within the southwestern portion of the study area (also outside of the project site to the west) in the same vicinity as the location detected during the 2018 site visit (Dudek 2015). Cooper's hawk (CDFW Watch List [WL]) and yellow warbler (SC, Bird of Conservation Concern [BCC]) were detected in the riparian habitat within the study area by ESA during the 2015 biological surveys.

Path: U:\GIS\GIS\Projects\17xxxx\171063\_BigCanyon\_Restoration\03\_MXDs\Projects\BTR\CNDDDB\_USFWS.mxd\_JUL\_7/9/2018

Study Area

## CNDDDB Occurrences

### Mammals

- 1 big free-tailed bat
- 2 hoary bat
- 3 Pacific pocket mouse
- 4 Southern California saltmarsh shrew
- 5 western mastiff bat

### Birds

- 1 bank swallow
- 2 Belding's savannah sparrow
- 3 burrowing owl
- 4 California black rail
- 5 California horned lark
- 6 California least tern
- 7 coastal cactus wren
- 8 coastal California gnatcatcher
- 9 grasshopper sparrow
- 10 least Bell's vireo
- 11 light-footed Ridgway's rail
- 12 osprey
- 13 white-tailed kite
- 14 yellow-breasted chat

### Reptiles

- 1 coast horned lizard
- 2 orangethroat whiptail
- 3 western pond turtle

### Plants

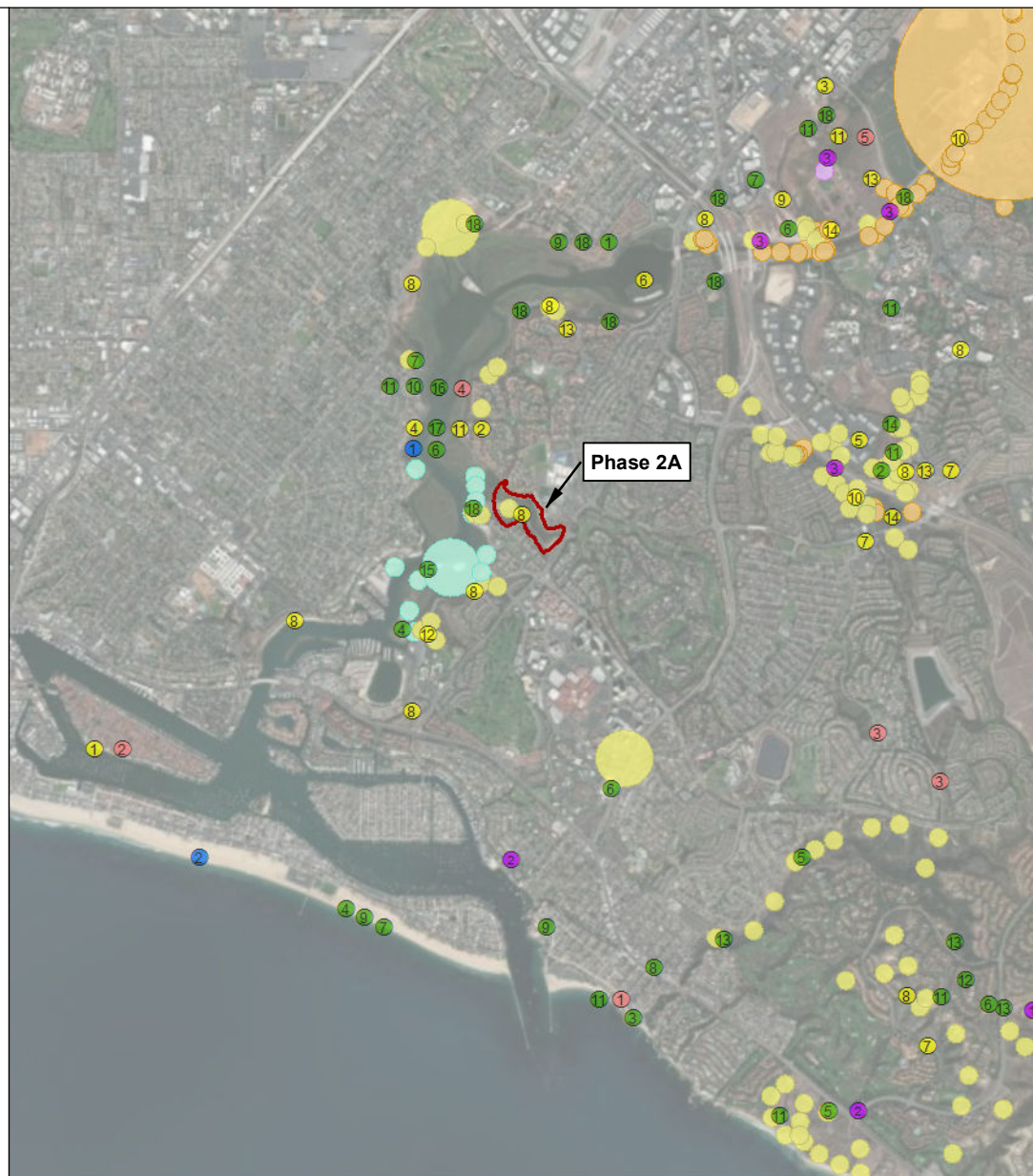
- 1 aphanisma
- 2 chaparral ragwort
- 3 cliff spurge
- 4 coast woolly-heads
- 5 Coulter's goldfields
- 6 Coulter's saltbush
- 7 Davidson's saltscale
- 8 decumbent goldenbush
- 9 estuary seablite
- 10 Los Angeles sunflower
- 11 many-stemmed dudleya
- 12 mesa horkelia
- 13 Nuttall's scrub oak
- 14 Robinson's pepper-grass
- 15 salt marsh bird's-beak
- 16 San Bernardino aster
- 17 south coast saltscale
- 18 southern tarplant

### Invertebrates

- 1 California brackishwater snail
- 2 sandy beach tiger beetle

### USFWS Occurrences

- coastal California gnatcatcher
- least Bell's vireo
- light-footed Ridgway's rail
- salt marsh bird's-beak



SOURCE: City of Newport Beach, CDFW, USFWS, ESRI

Big Canyon Restoration - Phase 2A

**Figure 9**  
Special-Status Species Occurrences (USFWS and CNDDDB)

Yellow warbler, yellow-breasted chat (SC), and white-tailed kite (State Fully Protected [FP]) were also observed within the study area by Dudek during their 2015 surveys, of which one yellow warbler observed at the southern boundary of the project site within the study area (Figure 6).

### 3.10 Critical Habitat

Under the FESA, to the extent feasible, the USFWS is required to designate critical habitat for endangered and threatened species. Critical habitat is defined as areas of land, water, and air space containing the physical and biological features essential for the survival and recovery of endangered and threatened species. This federally designated habitat includes sites for breeding and rearing, movement or migration, feeding, roosting, cover, and shelter. These habitat areas require special management and protection of existing resources, including water quality and quantity, host animals and plants, food availability, pollinators, sunlight, and specific soil types. Critical habitat designation includes all suitable habitat, occupied or not, essential to the survival and recovery of the species. The study area does not occur within any USFWS-designated critical habitat areas (USFWS 2018b).

### 3.11 Wildlife Movement

Wildlife movement corridors or habitat linkages are linear habitat features that connect two large blocks of habitat that might otherwise be disconnected from one another. Effective wildlife movement is essential for dispersal, genetic exchange, migration, foraging, and breeding. Functional wildlife movement corridors are especially important in highly fragmented habitat, such as developed or agricultural areas. Wildlife movement corridors are generally used by terrestrial animals, although they may also be important for bird dispersal and an avenue for genetic exchange in plants. On a regional scale, movement corridors can include bird flyways, such as wetland areas that provide essential habitat to be used as a stopover for several days during migration.

The study area lies within a densely urbanized area of Orange County. The study area may provide limited movement opportunities on a local scale between open space lands east of Jamboree Road (golf course, parks, and natural open space), and natural open space areas to the west (i.e., Upper Newport Bay). Big Canyon is relatively narrow and fairly constrained and does not function as a regional wildlife movement corridor or particularly important habitat linkage. However, the study area lies directly adjacent to the Upper Newport Bay, which is a recognized stopover location for migratory birds travelling along the Pacific Flyway, a significant avian migration route. Therefore, the study area contributes to the overall value of the Upper Newport Bay habitat and open space for migrating birds.

## 4 Regulatory Framework

The following provides a general description of the applicable regulatory requirements for the project, including federal, state, and local policies and guidelines.

### 4.1 Federal

#### 4.1.1 Endangered Species Act (USC, Title 16, § 1531 through 1543)

The FESA and subsequent amendments provide guidance for the conservation of endangered and threatened species and the ecosystems upon which they depend. In addition, the FESA defines species as threatened or endangered and provides regulatory protection for listed species. The FESA also provides a program for the conservation and recovery of threatened and endangered species as well as the conservation of designated critical habitat that USFWS determines is required for the survival and recovery of these listed species.

Section 7 of the FESA requires federal agencies, in consultation with and assistance from the Secretary of the Interior or the Secretary of Commerce, as appropriate, to ensure that actions they authorize, fund, or carry out are not likely to jeopardize the continued existence of threatened or endangered species or result in the destruction or adverse modification of critical habitat for these species. The USFWS and National Marine Fisheries Service (NMFS) share responsibilities for administering the FESA. Regulations governing interagency cooperation under Section 7 are found in CCR Title 50, Part 402. The opinion issued at the conclusion of consultation will include a statement authorizing “take” (to harass, harm, pursue, hunt, wound, kill, etc.) that may occur incidental to an otherwise legal activity.

Section 9 lists those actions that are prohibited under the FESA. Although take of a listed species is prohibited, it is allowed when it is incidental to an otherwise legal activity. Section 9 prohibits take of listed species of fish, wildlife, and plants without special exemption. The definition of “harm” includes significant habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns related to breeding, feeding, or shelter. “Harass” is defined as actions that create the likelihood of injury to listed species by disrupting normal behavioral patterns related to breeding, feeding, and shelter significantly.

Section 10 provides a means whereby a nonfederal action with the potential to result in take of a listed species can be allowed under an incidental take permit. Application procedures are found at 50 CFR 13 and 17 for species under the jurisdiction of USFWS and 50 CFR 217, 220, and 222 for species under the jurisdiction of NMFS.

#### 4.1.2 Migratory Bird Treaty Act (16 USC 703 through 711)

The MBTA is the domestic law that affirms, or implements, a commitment by the U.S. to four international conventions (with Canada, Mexico, Japan, and Russia) for the protection of a shared migratory bird resource. The MBTA makes it unlawful at any time, by any means, or in any manner to pursue, hunt, take, capture, or kill migratory birds. The law also applies to the removal of nests occupied by migratory birds during the breeding season. The MBTA makes it unlawful to



take, pursue, molest, or disturb these species, their nests, or their eggs anywhere in the United States.

### **4.1.3 Federal Clean Water Act (33 USC 1251 through 1376)**

The USACE regulates “discharge of dredged or fill material” into “waters” of the United States, which includes tidal waters, interstate waters, and "all other waters, interstate lakes, rivers, streams (including intermittent streams), mud flats, sand flats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes or natural ponds, the use, degradation, or destruction of which could affect interstate or foreign commerce or which are tributaries to waters subject to the ebb and flow of the tide" (33 C.F.R. 328.3(a)), pursuant to provisions of Section 404 of the CWA.

The USACE takes jurisdiction within rivers and streams to the OHWM, determined by erosion, the deposition of vegetation or debris, and changes in vegetation or soil characteristics. However, if there is no federal nexus to navigable waters, these waters are considered “isolated” and thus not subject to their jurisdiction.

The USACE and the Environmental Protection Agency (EPA) have issued a set of guidance documents detailing the process for determining CWA jurisdiction over waters of the United States following the Rapanos decision. The EPA and USACE issued a summary memorandum of the guidance for implementing the Supreme Court’s decision in Rapanos that addresses the jurisdiction over waters of the United States under the CWA. The complete set of guidance documents, summarized as key points below, were used to collect relevant data for evaluation by the EPA and USACE to determine CWA Jurisdiction over the project and to complete the “significant nexus test” as detailed in the guidelines.

The significant nexus test includes consideration of hydrologic and ecologic factors. For circumstances such as those described in point (B) on the next page, the significant nexus test would take into account physical indicators of flow (evidence of an OHWM), if a hydrologic connection to a TNW exists, and if the aquatic functions of the water body have a significant effect (more than speculative or insubstantial) on the chemical, physical, and biological integrity of a TNW. The USACE and EPA will apply the significant nexus standard to assess the flow characteristics and functions of the tributary drainage to determine if it significantly affects the chemical, physical and biological integrity of the downstream TNW.

#### ***Rapanos Key Points Summary***

(A) The USACE and EPA will assert jurisdiction over the following waters:

- TNWs.
- Wetlands adjacent to TNW.
- Non-navigable tributaries of TNWs that are relatively permanent.
- Where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically three months).
- Wetlands that directly abut such tributaries.

- (B) The USACE and EPA will decide jurisdiction over the following waters based on a fact-specific analysis to determine whether they have a significant nexus with a TNW:
- Non-navigable tributaries that are not relatively permanent.
  - Wetlands adjacent to non-navigable tributaries that are not relatively permanent.
  - Wetlands adjacent to but that do not directly abut a relatively permanent non-navigable tributary.
- (C) The USACE and EPA generally will not assert jurisdiction over the following features:
- Swales or erosion features (e.g., gullies, small washes characterized by low volume, infrequent, or short duration flow).
  - Ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water.

## 4.2 State

### 4.2.1 California Endangered Species Act (California Fish and Game Code § 2050 et seq.)

The CESA establishes the policy of the state to conserve, protect, restore, and enhance threatened or endangered species and their habitats. The CESA mandates that state agencies should not approve projects that would jeopardize the continued existence of threatened or endangered species if reasonable and prudent alternatives are available that would avoid jeopardy. There are no state agency consultation procedures under the CESA. For projects that would affect a listed species under both the CESA and the FESA, compliance with the FESA would satisfy the CESA if CDFW determines that the federal incidental take authorization is “consistent” with the CESA under California Fish and Game Code Section 2080.1. For projects that would result in take of a species listed under the CESA only, the project operator would have to apply for a take permit under Section 2081(b).

### 4.2.2 California State Fish and Game Code § 1600 et seq.

Under these sections of the California Fish and Game Code, the project operator is required to notify CDFW prior to any project that would divert, obstruct, or change the natural flow, bed, channel, or bank of any river, stream, or lake. Pursuant to the code, a “stream” is defined as a body of water that flows at least periodically, or intermittently, through a bed or channel having banks and supporting fish or other aquatic life. Based on this definition, a watercourse with surface or subsurface flows that supports or has supported riparian vegetation is a stream and is subject to CDFW jurisdiction. Altered or artificial watercourses valuable to fish and wildlife are subject to CDFW jurisdiction. CDFW also has jurisdiction over dry washes that carry water during storm events.

Preliminary notification and project review generally occur during the environmental process. When an existing fish or wildlife resource may be substantially adversely affected, CDFW is required to propose reasonable project changes to protect the resource. These modifications are formalized in a Streambed Alteration Agreement, which becomes part of the plans, specifications, and bid documents for the project.

### **4.2.3 California State Fish and Game Code §§ 2080 and 2081**

Section 2080 of the California Fish and Game Code states that “No person shall import into this state [California], export out of this state, or take, possess, purchase, or sell within this state, any species, or any part or product thereof, that the Commission [State Fish and Game Commission] determines to be an endangered species or threatened species, or attempt any of those acts, except as otherwise provided in this chapter, or the Native Plant Protection Act, or the California Desert Native Plants Act.” Pursuant to Section 2081 of the code, CDFW may authorize individuals or public agencies to import, export, take, or possess state-listed endangered, threatened, or candidate species. These otherwise prohibited acts may be authorized through permits or Memoranda of Understanding if the take is incidental to an otherwise lawful activity, impacts of the authorized take are minimized and fully mitigated, the permit is consistent with any regulations adopted pursuant to any recovery plan for the species, and the project operator ensures adequate funding to implement the measures required by CDFW, which makes this determination based on available scientific information and considers the ability of the species to survive and reproduce.

### **4.2.4 California State Fish and Game Code §§ 3503 and 3503.5**

Under these sections of the California Fish and Game Code, the project operator is not allowed to conduct activities that would result in the taking, possessing, or destroying of any birds of prey; the taking or possessing of any migratory nongame bird as designated in the MBTA; the taking, possessing, or needlessly destroying of the nest or eggs of any raptors or nongame birds protected by the MBTA; or the taking of any nongame bird pursuant to California Fish and Game Code Section 3800.

### **4.2.5 California Environmental Quality Act Guidelines, § 15380**

Although threatened and endangered species are protected by specific federal and state statutes, State CEQA Guidelines § 15380(b) provides that a species not listed on the federal or state list of protected species may be considered rare or endangered if the species can be shown to meet certain specified criteria. These criteria have been modeled after the definition in FESA and the section of the California Fish and Game Code dealing with rare or endangered plants or animals. This section was included in CEQA primarily to deal with situations in which a public agency is reviewing a project that may have a significant effect on, for example, a candidate species that has not been listed by either USFWS or CDFW. Thus, CEQA provides an agency with the ability to protect a species from the potential impacts of a project until the respective government agencies have an opportunity to designate the species as protected, if warranted. CEQA also calls for the protection of other locally or regionally significant resources, including natural communities. Although natural communities do not at present have legal protection of any kind, CEQA calls for an assessment of whether any such resources would be affected and requires findings of significance if there would be substantial losses. Natural communities listed by CNDDDB as sensitive are considered by CDFW to be significant resources and fall under the State CEQA Guidelines for addressing impacts. Local planning documents such as General Plans often identify these resources as well.

#### **4.2.6 Native Plant Protection Act (California Fish and Game Code §§ 1900 through 1913)**

California's NPPA requires all state agencies to use their authority to carry out programs to conserve endangered and rare native plants. Provisions of the NPPA prohibit the taking of listed plants from the wild and require notification of CDFW at least 10 days in advance of any change in land use. This allows CDFW to salvage listed plant species that would otherwise be destroyed. The project operator is required to conduct botanical inventories and consult with CDFW during project planning to comply with the provisions of this act and sections of CEQA that apply to rare or endangered plants.

#### **4.2.7 California Coastal Act (Public Resources Code § 30000-30265.5)**

The California Coastal Commission (CCC) regulates activities found within wetlands in the coastal zone. The Coastal Act Section 30121 defines wetlands as “lands within the coastal zone which may be covered periodically or permanently with shallow water and include saltwater marshes, freshwater marshes, open or closed brackish water marshes, swamps, mudflats, and fens.” Subsequent Statewide Interpretive guidelines has refined the definition based upon the USFWS definition (Cowardin et al. 1979), which is as follows: “Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For the purposes of this classification wetlands must have one or more of the following three attributes: (1) at least periodically, the land supports predominantly hydrophytes, (2) the substrate is predominantly undrained hydric soil, and (3) the substrate is nonsoil and is saturated with water or covered by shallow water at some time during the growing season of each year.” This definition is used as a guide for defining wetlands. The CCC can also rely on other information, advice, and judgment of other experts in determining jurisdiction.

#### **4.2.8 California Water Quality Control Act (Porter-Cologne California Water Code Section 13260)**

The State Water Resources Control Board (SWRCB) and the Regional Water Quality Control Boards (together “Boards”) are the principal State agencies with primary responsibility for the coordination and control of water quality. The Boards regulate activities pursuant to Section 401(a)(1) of the federal CWA as well as the Porter Cologne Water Quality Control Act (Porter-Cologne) (Water Code Section 13260). Section 401 of the CWA specifies that certification from the State is required for any applicant requesting a federal license or permit to conduct any activity including but not limited to the construction or operation of facilities that may result in any discharge into navigable waters. The certification shall originate from the State in which the discharge originates or will originate, or, if appropriate, from the interstate water pollution control agency having jurisdiction over the navigable water at the point where the discharge originates or will originate. Any such discharge will comply with the applicable provisions of Sections 301, 302, 303, 306, and 307 of the CWA.

In the Porter-Cologne, the Legislature declared that the “State must be prepared to exercise its full power and jurisdiction to protect the quality of the waters in the State from degradation...”

(California Water Code Section 13000). Porter-Cologne grants the Boards the authority to implement and enforce the water quality laws, regulations, policies and plans to protect the groundwater and surface waters of the State. It is important to note that enforcement of the State's water quality requirements is not solely the purview of the Boards and their staff. Other agencies (e.g., CDFW) have the ability to enforce certain water quality provisions in state law.

## **4.3 Local**

### **4.3.1 Orange County Central- Coastal Natural Community Conservation Plan/Habitat Conservation Plan**

The preparation of a comprehensive natural resources management conservation plan for Central Coastal Orange County was completed in 1996. The Orange County Central-Coastal NCCP/HCP and the associated Implementation Agreement covers thirteen cities. The purpose of the NCCP/HCP is to create a multi-species multi-habitat reserve system and implementation of a long-term management program that will protect primarily coastal sage scrub and the species that use this habitat. At the same time that it protects this habitat and species, the NCCP/HCP is also intended to allow for economical use of the lands that meet the people's needs. In July of 1996, the City became a signatory agency in the NCCP/HCP. As a signatory agency, the City is responsible for enforcing mitigation measures and other policies identified in the NCCP/HCP Implementation Agreement for properties located within the city limit that are part of the NCCP Subregional Plan. Currently, Big Canyon Nature Park, including the project site, is not included in the Orange County NCCP/HCP Plan; however, the City may petition to include this area in the future.

### **4.3.2 City of Newport Beach General Plan**

The City of Newport Beach's General Plan, in part, includes provisions to control environmental impacts and enhance natural resources within the city. Specific goals within the Natural Resources Element include protecting environmental resources, including sensitive and rare terrestrial and marine resources, coastal dune and other natural habitats, and wetlands. Surveys and analyses with the delineation of all wetlands areas are required when the initial site survey indicates the presence for potential wetland indicators. Goal NR 16 provides for the "Protection and management of Upper Newport Bay commensurate with the standards applicable to our nation's most valuable natural resources." One of the policies to implement this goal includes NR 16.2 (Big Canyon Creek Restoration Project) to "Coordinate the Big Canyon Creek Restoration Project so that its outcomes are consistent with goals for Upper Newport Bay established by Orange County and the Department of Fish and Game."

### **4.3.3 City of Newport Beach Local Coastal Program**

The City of Newport Beach's LCP is a coastal management plan mandated by the California Coastal Act of 1976, and includes a Coastal Land Use Plan and Implementation Plan. The City received certification of its LCP from the CCC with an effective date of January 30, 2017. Undeveloped areas supporting natural habitats that may be capable of supporting sensitive biological resources within the City's LCP are referred to as Environmental Study Areas. The study area is located within the Big Canyon Environmental Study Area. Environmental Study

Areas, or portions of them, within the Coastal Zone that are shown, after more detailed study, to contain sensitive or rare species are referred to as Environmentally Sensitive Habitat Areas (ESHAs), as defined by the California Coastal Act. ESHAs are areas in which “plant or animal life or their habitats are either rare or are especially valuable because of their special nature or role in an ecosystem that could easily be disturbed or degraded by human activities and developments.” The Coastal Act requires that ESHAs be protected against any significant disruption of habitat values. Only uses dependent on those resources are allowed within ESHAs and adjacent development must be sited and designed to prevent impacts that would significantly degrade the ESHA and must be compatible with the continuance of the ESHA.

#### 4.3.4 City of Newport Beach Tree Ordinances and Policies

The City of Newport Beach’s Tree Ordinances and Policies (Municipal Code Chapters 13.08 and 13.09; Council Policies G-1, G-3, and G-6) provide control over the planting, maintenance, and removal of trees, shrubs, and plants in all public areas under the control of the City (City of Newport Beach 2018).

The goal of Council Policy G-1: *Retention or Removal of City Trees* is to establish and maintain a diversity of tree species within the City’s urban forest, and “To require that in approving any tree removal or reforestation request, the Parks, Beaches and Recreation Commission (“Commission”) shall find that the tree removal request will not adversely impact the overall inventory, diversity and age of the City’s Urban Forest.” The City classifies public trees in one of three categories: Special City Trees, Problem City Trees, and Standard City Trees. The project site does not contain any trees identified as Special City Trees.

**Problem City Tree.** A Problem City Tree (“Problem Tree”) is defined as a tree that by virtue of its species causes excessive hardscape or utility damage due to its excessive root system. Brazilian pepper and Shamel ash are tree species included in the City’s list of Problem Trees. Problem Trees that are not designated Special Trees<sup>2</sup> may be removed for the following reasons:

- A. The Problem Tree has had a repeated history of damaging public or private sewers, water mains, roadways, sidewalks, curbs, walls, fences, underground utilities, or foundations based on City records or other competent and reliable authority. Water or sewer blockage that results from tree roots and causes significant documented private property damage (greater than \$500.00) shall be sufficient criterion for tree removal; or
- B. The Problem Tree has had a repeated history of significant interference with street or sidewalk drainage, despite specific treatment by the City to alleviate repeated damage; or
- C. The Problem Tree has created, in the opinion of the City Arborist, a view impediment that cannot be resolved by normal nor alternative tree trimming procedures.

Problem Trees may be proposed for removal by either staff or private property owners. The Municipal Operations Director has the authority to remove Problem Trees. No more than 50 Problem Trees may be removed per year by staff under these criteria without special approval of the Commission.

<sup>2</sup> Neither the study area nor the trees it contains are identified in Council Policy G-1 as “Special Trees”.

**Standard City Tree.** A City tree which is located on City real property (parkways, parks, other City-owned property) and not designated as a Special or Problem Tree is designated as a Standard City Tree (“Standard Tree”). There are a number of Standard Trees on-site, including native arroyo willow (several of which have been infested by PSHB), and non-native myoporum and Mexican fan palm.

It is the City’s policy to retain Standard Trees unless removal is necessary for one of the following reasons:

- A. The City tree has had a repeated history of damaging public or private sewers, water mains, roadways, sidewalks, curbs, walls, fences, underground utilities, or foundations based on City records or other competent and reliable authority. Water or sewer blockage that results from tree roots and causes significant public or private property damage (greater than \$500.00) shall be sufficient criterion for tree removal; or
- B. The City tree has had a repeated history of significant interference with street or sidewalk drainage; or
- C. The City tree is dead, diseased, dying, or hazardous, and presents a liability to the City. A dead tree is one that has been assessed by the City Arborist and found to have deceased. Diseased trees are defined as those trees that cannot be cured by current arboricultural methods, are in an advanced state of decline, and have no prospect of recovery. Dying trees are those that have no prospect of recovery. Hazardous trees are defined as those that are defective, have a potential to fail, and would cause damage to persons and property upon failure. The City Arborist will perform a hazard assessment whenever a tree is identified as hazardous. The assessment will identify: structural defects of the tree, parts of the tree most likely to fail, targets where imminent personal injury or property damage may result with tree failure, and procedures or actions necessary to abate the hazard. After assessment, the City Arborist will expeditiously convey his written findings and recommendations to the Municipal Operations Director for evaluation. If the Municipal Operations Director agrees with the City Arborist findings to remove a tree, the hazardous tree will be removed without further delay. In the case of imminent tree failure, the Landscape Manager or the City Arborist shall have the authority to direct the removal of a hazardous tree; or
- D. The tree(s) have been requested to be removed in conjunction with a City Council-approved City, commercial, neighborhood, or home owners’ association beautification program; or
- E. The City Manager, upon the advice of the Municipal Operations Director, City Attorney, Risk Manager or the Traffic Engineer, shall have the authority to remove individual Problem or Standard Trees to resolve claims or safety issues.

## 5 Potential Effects

This section describes the potential effects of the proposed project (**Figure 3 and Figure 10**) on biological resources that may occur as a result of project implementation, including net ecological benefits. Temporary, permanent, direct, and/or indirect effects to biological resources may occur as a result of project implementation, as defined below:

- **Direct Effects:** Any alteration, disturbance, or destruction of biological resources that would result from project-related activities is considered a direct effect. Examples include loss of individual species and/or their associated plant communities, diversion of surface water flows, and encroachment into wetlands. Under the Endangered Species Act (ESA), direct

effects are defined as the immediate effects of a project on a species or its habitat, including construction noise disturbance, sedimentation, or habitat loss.

- **Indirect Effects:** Biological resources may also be affected in an indirect manner as a result of project-related activities. Under the ESA, indirect effects are defined as those effects that are caused by, or would result from, a proposed project but occur later in time and are reasonably certain to occur [50 C.F.R. §402-02]. An example of indirect effects may include irrigation runoff from a developed area into surrounding natural vegetation. Indirect effects could also include increased wildfire frequency as a result of power line failures.
- **Temporary Effects:** Any effects to biological resources that are considered reversible can be viewed as temporary. Examples include the generation of fugitive dust during construction activities.
- **Permanent Effects:** All effects that result in the irreversible removal of biological resources are considered permanent. Examples include constructing a building or permanent road on an area with native vegetation, such that the native vegetation is permanently removed and replaced with a developed structure.

A project is generally considered to have a significant effect if it proposes or results in any of the conditions described in the significance thresholds discussed below (in *italics*), absent specific evidence to the contrary. Conversely, if a project does not propose or result in any of the following conditions, it would generally not be considered to have a significant effect on biological resources, absent specific evidence of such an effect. These significance thresholds are based on Appendix G of the State CEQA Guidelines.

## 5.1 Special-Status Species

### 5.1.1 Significance Threshold

The project would have an adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service.

### 5.1.2 Analysis of Project Effects

The study area is not within any USFWS-designated Critical Habitat for any special-status plant or wildlife species.

Two special-status plant species, southern tarplant (CRPR 1B.1) and California boxthorn (CRPR 4.2), were observed in the study area (but outside of the project site) during surveys conducted by Dudek (2015) and confirmed by ESA during the March 26, 2018 site visit. Because these special-status plant species were found outside of the project site and thus outside of the proposed project's footprint, no direct impact to these species would occur as a result of restoration implementation or monitoring activities associated with the project. It is possible that, due to presence of suitable habitat and possible presence of viable seed in the seed bank, special-status plant species could be present within the project site prior to implementation of restoration activities. In particular, southern tarplant is a disturbance tolerant species, and could germinate



resulting from disturbance of the project site during construction activities. Construction-related impacts to special-status plant species, if present, would be significant. Implementation of MM BIO-1 would reduce potential construction-related impacts to special-status plants to a less than significant level. Also, the proposed project will create more native habitat for these special-status plant species to recruit and spread into, and thus would constitute a potentially beneficial indirect project effect, since the dense continuous canopy of Brazilian pepper trees currently precludes the establishment of these species by outcompeting them for light and other resources.

One special-status reptile species, orange-throated whiptail (SC), has a moderate potential to occur on-site. This species is a covered Target Species under the NCCP/HCP. The orange-throated whiptail inhabits areas of coastal scrub, which would be avoided by the proposed project, and construction workers and equipment would be limited to working within existing trails and in areas where exotic vegetation would be removed and restoration/enhancement would occur. The proposed project is intended to create more native scrub habitat that would then be available for this species within the upland transitional habitat around sections of the perimeter of the Phase 2A site. Thus the project will indirectly benefit this species by adding to the total habitat area available in the Big Canyon Nature Park. Therefore, since proposed project will likely benefit this species, any temporary adverse effects would be considered less than significant.

One special-status avian species, yellow warbler (SC, BCC), was detected at the southern boundary of the project site during 2015 surveys. Four other special-status bird species, including Cooper's hawk (WL), yellow-breasted chat (SC), white-tailed kite (FP), and coastal California gnatcatcher (FT, SC), were observed by Dudek during 2015 surveys within the study area but outside the proposed Phase 2A project site. Coastal California gnatcatcher was also detected during ESA's 2018 site visit in habitat located just west of the proposed project (Figure 6). Coastal California gnatcatcher occurs in coastal scrub habitat, and is a covered Target Species under the NCCP/HCP. The proposed project would avoid impacts to coastal scrub vegetation and would not directly affect this species.

In addition, least Bell's vireo has been observed within the study area in previous years according to data provide in the RMMP (2016) although the exact date and source of that information is unknown. Least Bell's vireo is a conditionally covered Identified Species under the NCCP/HCP that occurs within native riparian habitat. The proposed project is specifically intended to enhance existing riparian habitat and create additional native riparian habitat in the Phase 2A site which will then be available for this species. Thus the project will indirectly benefit this species by adding to the total habitat area available in the Big Canyon Nature Park.

These avian species, as well as other special-status bird species considered to have a high or moderate potential to occur within the study area, and that could nest in the riparian or adjacent upland habitat in the project area, could be negatively affected during implementation of the project due to temporary loss of habitat during invasive species removal, floodplain grading, and replanting. However, the project proposes to conduct construction work outside of the nesting season to the extent feasible to minimize such disturbances to nesting birds; thus, indirect impacts to nesting birds from construction activity would be limited to the work area and short term, and only to the extent that work cannot feasibly avoid overlapping some part of the breeding season.

Although there may be a temporary disturbance to nesting habitat and permanent removal of non-native stands of trees, there will be an overall benefit to native avian species, as well as other wildlife, through implementation of the proposed project by restoring native habitat to the area, which can be utilized for nesting and foraging. Other net ecological benefits would include removing PSHB-infested trees, which would benefit the general health and integrity of the existing riparian habitat, and improving the overall streambed function and ecology of Big Canyon Creek. To the extent that work cannot be scheduled outside of nesting season, temporary impacts to nesting special-status bird species from implementation of the proposed project, if present, would be potentially significant. Implementation of MM BIO-2 would reduce temporary construction-related impacts to a less than significant level.

Three special-status mammal species, Southern California saltmarsh shrew (SC), pallid bat (SC), and San Diego desert woodrat (SC), have a moderate or moderate to high potential to occur on-site. Southern California saltmarsh shrew occurs in salt marsh habitat and San Diego desert woodrat occurs in coastal scrub habitats. Both these habitat types would be avoided by the proposed project, and construction workers and equipment would be limited to existing trails and areas where exotic vegetation would be removed and restoration/enhancement would occur. Furthermore, San Diego desert woodrat is an Identified Species for which conservation and management are provided under the NCCP/HCP. A potential beneficial effect of the proposed project would include creating more native salt marsh habitat within the wet alkali meadow community and more native scrub habitat within the upland transitional habitat that would be available for these species, where exotic species are removed and replaced. As such, the proposed project may benefit these species, and adverse effects would be less than significant.

Pallid bat occurs in a wide variety of habitats including shrublands, woodlands, and forests. Since much of the forested area within the exotic pepper tree groves would be removed, this species could potentially be impacted by the project, if present. However, the project proposes to conduct work outside of the nesting season for birds, which would also avoid the maternity season for bats (i.e., mid-March through August), and avoid disturbances to any bats that may be present. Although there would be a temporary disturbance to potentially suitable habitat and permanent removal of non-native stands of trees, there would also be an overall benefit to native bat species, as well as other wildlife, through implementation of the proposed project by restoring native habitat to the area, which can be utilized for roosting and foraging. To the extent that project work cannot feasibly be scheduled outside of maternity season, impacts to pallid bat from implementation of the proposed project would be potentially significant, this species is present. Implementation of MM BIO-2 would reduce temporary construction-related impacts to a less than significant level.

***With implementation of Mitigation Measures MM BIO-1, MM BIO-2, and MM BIO-3, impacts resulting to special-status species from project restoration activities would be less than significant. Overall, the project would result in a net benefit to sensitive and special-status species by enhancing habitat quality, including nesting, roosting and foraging area, within the project site.***

## 5.2 Riparian Habitat or Sensitive Natural Community

### 5.2.1 Significance Threshold

---

The project would not have a substantial adverse effect on riparian habitat or other sensitive natural communities identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service.

---

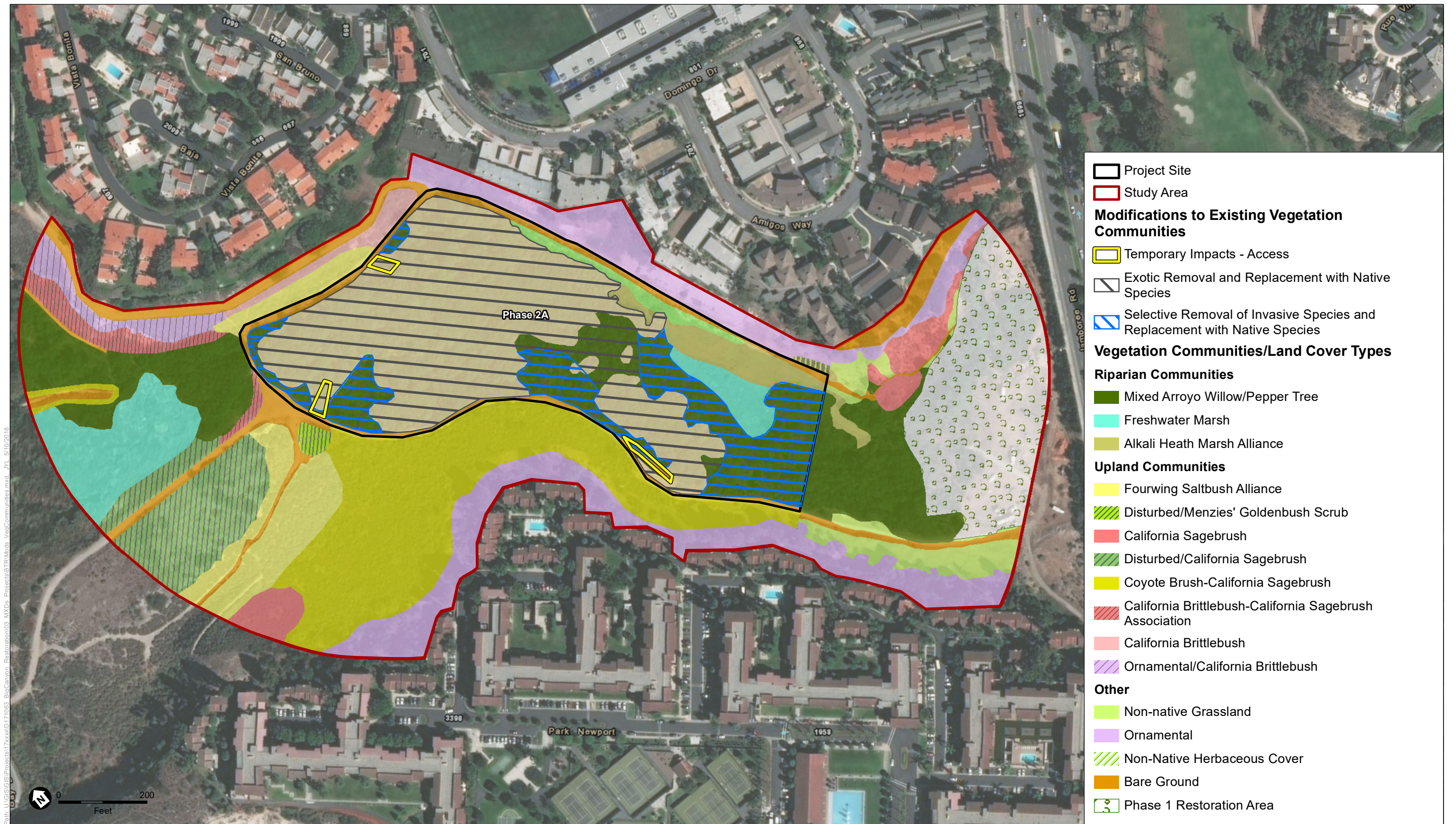
### 5.2.2 Analysis of Project Effects

As described in detail in Section 1.2, the project proposes to remove exotic and invasive vegetation by clearing and grubbing in a maximum area of 6.83 acres and will involve grading to pull back the slopes of segments of Big Canyon Creek where it is deeply incised to connect that stream to the floodplain and promote restoration with appropriate vegetation. Removal of Brazilian pepper trees, including root material in the upper soil profile, will create a very uneven surface and so will require contouring and, in some cases, backfilling, to smooth out the surface area and to stabilize the creek banks as described in Section 1.2. The maximum area that would be completely cleared and grubbed and partly graded and re-contoured is presently occupied by approximately 6.33 acre of non-native pepper tree groves and up to 0.50 acre of mixed arroyo willow/pepper tree grove. Following exotic removal and surface preparations, a mosaic of habitats comprised of native plant species will replace the existing non-native dominated community (refer to Figure 3, **Figure 10** and **Table 6**). Selective removal of pepper trees and other non-native vegetation is also proposed to occur within the remaining 2.39 acre of mixed arroyo willow/pepper tree grove patch areas. Selective removal of Brazilian pepper trees within the mixed woodland habitat would occur using both hand tools and smaller equipment (e.g., small, Kubota-type skid steer, track, or wheel loaders, and compact excavators) to remove logs and debris while avoiding impacts to native vegetation (e.g. healthy willow trees) to the extent practical. Restoration of all areas where exotic vegetation is removed is intended to establish much higher quality native riparian and upland habitat, resulting in a net ecological benefit for plant and wildlife species.

In addition, a total of up to approximately 0.09 acres of pepper tree groves (0.07 ac.) and mixed arroyo woodland/pepper tree grove (0.02 ac.) would be displaced by installation of temporary access ramps in two planned locations and one additional optional location (shown on Figure 10) to provide equipment access to the project site to remove exotic and invasive vegetation and to implement habitat restoration activities. One or more of these access ramps would remain in use during the first three years of restoration implementation, and would then be revegetated and maintained for the remainder of the restoration effort and monitoring phase.

Seven special-status vegetation communities occur within the study area: mixed arroyo willow/pepper tree grove, alkali heath marsh alliance, Menzies' goldenbush scrub alliance, California sagebrush alliance, coyote brush-California sagebrush association, California brittlebush-California sagebrush association, and California brittlebush scrub alliance.





SOURCE: ESRI; Digital Globe 10/21/2016; ESA

Big Canyon Restoration - Phase 2A

**Figure 10**  
Modifications to Existing Vegetation Communities



This page intentionally left blank

However, only three of these special status communities occur within the Phase 2A project area as indicated above in Table 6: mixed arroyo willow/pepper tree grove, alkali heath marsh alliance, and Menzies' goldenbush scrub alliance. No adverse effects would occur to the alkali heath marsh alliance or to Menzies' goldenbush scrub alliance. In addition, although it is not considered a special-status vegetation community, no adverse effects would occur to the 0.40 acre of freshwater marsh on-site, which is a riparian community. Selective removal of exotic pepper trees and enhancement would occur within at least 2.40 acres of the total 2.90 acres of mixed arroyo willow/pepper tree grove community on-site. This work would involve tree removal and may also include substantial pruning or removal of native willow trees if they are badly infested with PSHB. Some incidental damage to native vegetation is also anticipated to occur in order to access, prune and remove the individual exotics and infested willows.

To minimize adverse effects to native vegetation within this special-status vegetation community, work would be done manually or by using small, lightweight machines to the extent feasible; however, as a conservative estimate of potential disturbance to the existing mixed arroyo willow/pepper tree grove community on-site, for purposes of this analysis, it is assumed that up to 30% of the 2.90 acres (i.e., approximately 0.87 acres) may be temporarily disturbed during the enhancement effort. Subsequent to the selective removals and pruning, these areas would be enhanced as native vegetation recolonizes these areas via natural recruitment and with re-seeding areas with appropriate native plants, all of which would improve the quality and health of this community, resulting in a net ecological benefit. Therefore, temporary disturbances to conduct the enhancement work would be "self-mitigating"; thus, adverse effects would be less than significant and no mitigation would be required.

***As such, adverse effects to special-status vegetation communities and riparian habitat would be less than significant. Overall, the project would result in a net benefit to special-status vegetation communities but enhancing and restoring native habitat within the project site.***

**TABLE 6**  
**MODIFICATIONS TO VEGETATION COMMUNITIES IN PHASE 2A PROJECT AREA**

| Vegetation Community                   | Existing     | Permanent Effects     | Permanent Effects | Total Permanent Effects | Temporary Effects |
|----------------------------------------|--------------|-----------------------|-------------------|-------------------------|-------------------|
|                                        |              | Clearing and Grubbing | Selective Removal |                         | Access Ramps      |
| Mixed Arroyo Willow*/Pepper Tree Grove | 2.90         | 0.50                  | 2.40              | 2.90                    | 0.02              |
| Freshwater Marsh                       | 0.40         | -                     | -                 | -                       | -                 |
| Alkali Heath Marsh Alliance*           | 0.58         | -                     | -                 | -                       | -                 |
| Menzies' Goldenbush Scrub Alliance*    | 0.28         | -                     | -                 | -                       | -                 |
| Pepper Tree Grove                      | 6.34         | 6.33                  | 0.01              | 6.34                    | 0.07              |
| Bare Ground                            | 0.82         | -                     | -                 | -                       | 0.04              |
| <b>Grand Total</b>                     | <b>11.32</b> | <b>6.83</b>           | <b>2.41</b>       | <b>9.24</b>             | <b>0.13</b>       |

## 5.3 Jurisdictional Wetlands

### 5.3.1 Significance Threshold

---

The project would not have a substantial adverse effect on federal- and state-protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.

---

### 5.3.2 Analysis of Project Effects

Temporary effects to jurisdictional areas would occur from implementation of the riparian habitat restoration. Grading of the channel bank would pull back the upper banks along approximately 660 linear feet of channel within the pepper tree grove areas (Figure 1). Anticipated excavation for the proposed project is based on the grading for the stream restoration along this 660 linear feet extending up to an average of about 30 feet on each side of the channel to an average depth of 1.5 feet. Following clearing and removal of invasive pepper trees, including the bulk of associated root material in the upper 2 to 3 feet of soil, various measures would be implemented to stabilize and then revegetate the channel and adjacent areas.

Grading will occur within the limited area along the channel segments. Clearing and grubbing will occur within the pepper tree grove (6.33 acre) and within 0.5 acre of mixed arroyo woodland/pepper tree, for a total of 6.83 acre (see Table 6). Selected invasive removal will occur within up to an estimated 30% (0.87 acre) of the arroyo willow woodland/ pepper tree.

Banks higher than 2 feet high would be contoured back at a gentle slope to intercept the existing valley floor not more than 30 feet either side of the channel. This would create hydrologically-connected floodplain areas that would be seasonally inundated. The grading would create a gentle slope where riparian vegetation would be planted that would reduce potential bank erosion and improve water quality through natural filtration and infiltration. The proposed creek restoration would also improve benthic macro-invertebrate habitat through reduced erosion, native planting, improved water quality and greater channel stability. Because of the extensive presence of invasive non-native species, the majority of impacts are considered beneficial in that they would result in improved riparian health and restored/enhanced native habitats, and no net loss of waters of the United States or wetlands would occur.

The project has been designed to avoid permanent impacts to native riparian habitat. The project proposes to restore segments of Big Canyon Creek that have been eroded and incised, and that have partly isolated the channel from the floodplain, thus degrading the riparian corridor, which would benefit from periodic inundation. The proposed project intends to reduce the erosion and incising of the channel by grading back the incised bank to restore connectivity with the floodplain. Thus, temporary effects to waters, wetlands, and associated riparian habitat as a result of restoration implementation are unavoidable. However, the project would not result in the loss of federally- or state-protected jurisdictional areas and the resulting restored habitat would provide superior ecological benefits by improving the overall functions and values of the jurisdictional areas, as described above.

*As such, effects to jurisdictional wetlands would be less than significant. Overall, the project would result in a net benefit by enhancing and restoring jurisdictional wetlands.*

## 5.4 Wildlife Movement and Nursery Sites

### 5.4.1 Significance Threshold

---

The project could interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites.

---

### 5.4.2 Analysis of Project Effects

The study area does not function as a regional wildlife movement corridor or habitat linkage. However, the study area supports habitat for migrating birds. The proposed project could temporarily disrupt foraging and nesting opportunities within the project area for migratory birds during implementation of the restoration (e.g., invasive species removal, floodplain grading, and planting in the riparian habitat restoration area). Thus, temporary adverse effects would be potentially significant. Implementation of mitigation measure MM BIO-2, prescribed in Section 6.0 below, would reduce adverse effects to a less than significant level. Once the project is complete, the restored and enhanced habitat would result in a net benefit by providing higher functioning habitat that can provide cover and forage for migrating wildlife. Project construction would avoid the avian breeding season; thus, the project is not expected to adversely affect native wildlife nursery sites, as described above under Section 5.1.2.

*With implementation of Mitigation Measure MM BIO-2, temporary adverse effects to wildlife movement would be less than significant. The project would result in a net benefit to wildlife movement by enhancing native habitat for migrating birds.*

## 5.5 Local Policies, Ordinances, and Adopted Plans

### 5.5.1 Significance Threshold

---

The project would not conflict with one or more local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance, and/or would not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

---

### 5.5.2 Analysis of Project Effects

#### **Local Policies and Ordinances**

The proposed project would not conflict with the protection of biological resources under the City of Newport Beach Municipal Code. It is not completely certain that the trees within Big Canyon Phase 2A are covered by the City's tree removal policy as they may not necessarily be considered to contribute to the City's Urban Forest as they are in a designated open space area. However, for the purpose of this analysis, both exotic and native tree specimens are considered to be subject to



the relevant municipal policy. Council Policy G-1 requires that in approving any tree removal or reforestation request, the Commission shall find that the tree removal request would not adversely impact the overall inventory, diversity and age of the City's Urban Forest. Brazilian pepper and shamel ash are tree species included in the City's list of Problem Trees under Council Policy G-1. The policy also states that "no more than 50 Problem Trees may be removed per year by staff without special approval of the Commission." To comply with this policy, the project may seek prior approval from the City's Parks, Beaches, and Recreation Commission, for the removal of more than 50 trees, acknowledging that the removal is to make way for a habitat restoration project. In addition, there are a number of tree specimens on site that could be considered Standard Trees, including native arroyo willow (several of which have been infested by PSHB), and non-native myoporum and Mexican fan palm. Standard Trees can be removed if they are dead, diseased, dying, or hazardous, and present a liability to the City, as is the case with the PSHB-infested native arroyo willow trees. For other Standard Trees that are proposed to be removed as part of the proposed project's restoration effort, the City's policy states that Standard Trees can be removed if the tree(s) have been requested to be removed in conjunction with a City Council-approved City, commercial, neighborhood, or home owners' association beautification program. This requirement may be simply addressed through City approval of the Big Canyon Restoration in Phase A. With compliance with existing regulations, impacts to regulated trees would be less than significant.

### ***Adopted Plans***

The proposed project, while not currently included in the Orange County Central-Coastal NCCP/HCP, would be designed to meet NCCP/HCP standards, and is consistent with the RMMP for the Big Canyon Nature Park in the event the City elects to incorporate the Nature Park into the NCCP/HCP in the future.

Furthermore, the project would not conflict with the provisions of the Natural Resources Element of the City of Newport Beach's General Plan, since it would implement Policy NR 16.2 for the restoration of Big Canyon Creek and help the City further uphold its goal toward the protection and management of Upper Newport Bay (NR 16).

Portions of the project site contain native riparian and upland habitats (e.g., mixed arroyo willow/pepper tree grove, freshwater marsh, alkali heath marsh alliance, Menzies' goldenbush scrub alliance) that support, or have the potential to support, special-status plant and wildlife species; thus, these areas qualify as ESHAs under the City's LCP. The native habitats consisting of freshwater marsh, alkali heath, and Menzies' goldenbush scrub would be completely be avoided by the proposed project, with the exception of mixed arroyo willow/pepper tree grove, where up to 0.5 acre of clearing and grubbing would remove that vegetation to make way for a mosaic of appropriate native habitats and where 2.40 acres of selective exotic removal and enhancement would occur to improve the habitat quality of this partially disturbed community (i.e., invaded by non-natives). As outlined in Section 5.1 above, the proposed project would be careful to avoid and minimize any potential effects to special-status species during the enhancement of this community. The portions of the study area that are dominated by non-native Brazilian pepper tree (i.e., pepper tree groves) do not qualify as ESHAs due to the disturbed nature of this vegetation community. However, removal of these pepper tree grove areas and

restoration of this community to a higher quality native riparian and upland habitat would increase the ecological value of this community, provide better functioning habitat to support special-status species, and would function as a wetland buffer. Thus, the proposed project would help to achieve the goal of providing further protection for ESHAs, and does not conflict with the provisions of the City's LCP.

***Therefore, the project would not conflict with the provisions of any local policies or ordinances protecting biological resources or any adopted NCCP/HCPs. The project would result in a net benefit by restoring and enhancing Big Canyon Creek and EHSAs within the project site, consistent with the City's General Plan and LCP.***

## 6 Mitigation Measures

To minimize and avoid significant effects to sensitive biological resources as a result of project implementation, the following mitigation measures are recommended.

### **MM BIO-1a: Special-Status Plants**

The following mitigation shall be implemented for avoidance and minimization of temporary construction-related impacts to special-status plant species within the project site:

- a. Within two weeks prior to construction activities, preconstruction surveys shall be conducted by a qualified Project Biologist to confirm presence/absence of special-status plant species within the project site. The locations of any special-status plant species identified during the pre-construction botanical survey, including those with a CRPR of 1, 2, or 3 by the CNPS shall be flagged (or otherwise delineated) by a biologist and shall be avoided to the greatest extent feasible. To verify avoidance during construction, a qualified biologist shall be onsite during any ground disturbing activities within 10 feet of a special-status plant species population.
- b. If avoidance of a special-status plant species is not feasible, coordination with USFWS and/or CDFW will be required to confirm suitable mitigation prior to ground-disturbing activities. The mitigation strategy may include avoidance, on-site or off-site restoration, translocation, and/or seed collection, and shall be outlined in a restoration/revegetation plan to be approved by USFWS and/or CDFW. At a minimum, the plan shall include a description of the existing conditions, site selection criteria, site preparation and planting methods, maintenance and monitoring schedule, performance standards, adaptive management strategies, and identification of responsible parties.

### **MM BIO-2: Nesting Birds**

Impacts to nesting birds would be avoided by conducting all grading and construction activities outside of the bird breeding season (February 15 to August 31; January 15 to August 31 for raptors). If breeding season cannot be avoided, the following measures would be followed.

- a. During the avian breeding season, a qualified Project Biologist shall conduct a pre-construction avian nesting survey no more than 7 days prior to vegetation disturbance or site clearing. If grading or other construction activity begins in the non-breeding

season and proceeds continuously into the breeding season, no surveys shall be required. However, if there is a break of 7 days or more in grading or construction activities during the breeding season, a new nesting bird survey shall be conducted before these activities begin again.

- b. The nest survey shall cover all reasonably potential nesting locations on and within 300 feet of the proposed areas where construction activities will occur.
- c. If an active nest is found during an avian nest survey, a qualified Project Biologist shall implement a 300-foot minimum avoidance buffer for special-status species (e.g., coastal California gnatcatcher, least Bell's vireo); a 500-foot minimum avoidance buffer for all raptor species; and 300-foot minimum avoidance buffer (or other buffer as determined appropriate by the Project Biologist) for other passerine birds. Buffer distances for other species will be determined by the Project Biologist based on the species and its breeding or nesting requirements. The nest site area shall not be disturbed until the nest becomes inactive or the young have fledged.

### **MM BIO-3: Special-Status Bats**

Impacts to special-status bat species would be avoided by conducting all grading and construction activities outside of the maternity roosting season (mid-March through August). If maternity roosting season cannot be avoided, the following measures would be followed.

- a. If grading/construction activities must occur during the maternity season, a qualified biologist shall conduct a pre-construction survey to identify potential active roosts. The pre-construction survey shall occur the night before grading/construction activities to observe if any bats are exiting suitable habitat within 100 feet of the proposed work area. The pre-construction survey will be conducted at sunset for 90 minutes by a qualified biologist with the use of a thermal imaging camera to observe and record any bats. If no bats are observed, work may proceed in the proposed work area the following day and will remain cleared for the duration of the work activity. If active roosts are observed, no grading/construction activities may take place in the proposed work area the following day and not until it can be verified with thermal imaging that bats have left the area or the maternity roosting season is over.
- b. Additional pre-construction surveys will be required in new work areas located more than 100 feet away from the previously surveyed work area.

## **7 References**

- American Ornithologists' Union (AOU). 2018. *Checklist of North American and Middle American Birds*. AOU website <http://checklist.aou.org/taxa/>.
- Baldwin, et al. 2012. *Jepson Manual: Vascular Plants of California*; Second Edition. University of California Press.
- California Herps (CalHerps). 2018. *A Guide to the Amphibians and Reptiles of California*. Accessed online at <http://www.californiaherps.com/>.
- California Department of Fish and Wildlife (CDFW). 2018a. California Natural Diversity Database (CNDDDB) Rarefind 5. Electronic database, Sacramento, California. Accessed at: <https://www.wildlife.ca.gov/Data/CNDDDB/Maps-and-Data>.

- CDFW. 2018b. *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities*. State of California Natural Resources Agency. March 20, 2018.
- CDFW. 2018c. *California Natural Community List*. Vegetation Classification and Mapping Program. January 24, 2018. <https://www.wildlife.ca.gov/Data/VegCAMP/Natural-Communities#natural%20communities%20lists>.
- California Native Plant Society (CNPS). 2018. Inventory of Rare and Endangered Plants (online edition, v8-01a). Sacramento, CA. <http://www.rareplants.cnps.org/>.
- California Wetland Monitoring Workgroup (CWMW). 2013. *Riverine Wetlands Field Book, Version 6.1*. [https://www.cramwetlands.org/sites/default/files/2013.03.19\\_CRAM%20Field%20Book%20Riverine%206.1\\_0.pdf](https://www.cramwetlands.org/sites/default/files/2013.03.19_CRAM%20Field%20Book%20Riverine%206.1_0.pdf).
- City of Newport Beach. 2006. General Plan. Adopted July 25, 2006. [http://www.newportbeachca.gov/PLN/General\\_Plan/01\\_FrontMatter\\_web.pdf](http://www.newportbeachca.gov/PLN/General_Plan/01_FrontMatter_web.pdf).
- City of Newport Beach. 2017a. *Local Coastal Program Coastal Land Use Plan*. Adopted December 13, 2005; Amended by the California Coastal Commission June 7, 2017; Adopted July 26, 2016, Resolution No. 2016-90.
- City of Newport Beach. 2017b. *Local Coastal Program Implementation Plan*. Approved by California Coastal Commission on September 8, 2016; Approved by City Council on November 22, 2016; Effective on January 30, 2017.
- City of Newport Beach. 2018. Tree-Related Ordinances and Policies. Website accessed April 16, 2018. <http://www.newportbeachca.gov/government/departments/municipal-operations/parks-trees/trees/ordinances-policies>.
- Community Conservation International (CCI). 2004. *Big Canyon Creek Historic Tidal Wetlands Conceptual Restoration Plan, Upper Newport Bay, Orange County, California*.
- County of Orange. 1996. *Natural Community Conservation Plan/Habitat Conservation Plan*.
- County of Orange, Central & Coastal Subregion. Parts I & II, III, IV: Implementing Agreement, and V: Map Section (Figures 1 through 73). December 7.
- Cowardin, L.M., V. Carter V., F.C. Golet, E.T. LaRoe. 1979. *Classification of Wetlands and Deepwater Habitats of the United States*. U.S. Fish and Wildlife Service Report No. FWS/OBS/-79/31. Washington, D.C.
- Crother, B. 2018. Checklist of the Standard English and Scientific Names of Amphibians and Reptiles. Society for the Study of Amphibians and Reptiles. Accessed at <https://ssarherps.org/publications/north-american-checklist/>.
- Dudek. 2015. *Biological Resources Inventory Report for the Big Canyon Nature Park Project, City of Newport Beach, Orange County, California*. Prepared for the Irvine Ranch Conservancy.

- Environmental Laboratory. 1987. *U.S. Army Corps of Engineers Wetland Delineation Manual*. Prepared for the U.S. Army Corps of Engineers.
- Environmental Science Associations (ESA). 2018. *Jurisdictional Delineation Report, Big Canyon Restoration Phase 2A* for City of Newport Bay Conservancy. April 2018.
- ESA. 2016. *Biological Resources Technical Report, Big Canyon Habitat Restoration and Water Quality Improvement Project*. Prepared for City of Newport Beach Public Works Department. January 2016.
- ESA. 2015. *Big Canyon Habitat Restoration and Water Quality Treatment Improvement Project Jurisdictional Delineation Report*. December.
- Gray, J. and D. Bramlet. 1992. *Habitat Classification System: Natural Resources Geographic Information System (GIS) Project*. Unpublished report prepared for the Orange County Environmental Management Agency, Santa Ana California.
- Irvine Ranch Conservancy and Dudek. 2016. *Big Canyon Nature Park Resource and Recreation Management Plan, Orange County, California*. Prepared for City of Newport Beach. November 2016.
- Jones & Stokes Associates, Inc. 1993. *Methods Used to Survey the Vegetation of Orange County Parks and Open Space Areas and The Irvine Company Property. February 10, 1993*. Sacramento, California. Prepared for County of Orange, Environmental Management Agency, Environmental Planning Division, Santa Ana, California.
- Kaufman, Kenn, Nora Bowers, Rick Bowers. 2004. *Field Guide to Mammals of North America*. New York, New York: Houghton Mifflin Company.
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. *The National Wetland Plant List: 2016 Wetland Ratings*. Phytoneuron 2016-30: 1-17. Published 28 April 2016.
- Orange County Public Works (OCPW). 2014. OC Watersheds. Accessed March 10, 2014, at <http://ocwatersheds.com/>.
- Natural Resources Conservation Service (NRCS). 2018. *Web Soil Survey*. U.S. Department of Agriculture. Accessible online at: <https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/survey/>.
- NRCS 2016. *Hydric Soils List of California* Available at: <http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/use/hydric/>. Accessed March 2018.
- Sawyer, J. O., T. Keeler-Wolf, and J. M. Evens. 2009. *A Manual of California Vegetation, 2<sup>nd</sup> Edition*. California Native Plant Society, Sacramento, CA.
- Stebbins, R. C. 2003. *A Field Guide to Western Reptiles and Amphibians Third Edition*. Boston: Houghton-Mifflin.

- U.S. Army Corps of Engineers (USACE). 2008a. *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States*. A Delineation Manual. August 2008. <http://www.dtic.mil/dtic/tr/fulltext/u2/a486603.pdf>.
- USACE 2008b. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)*. Wetlands Regulatory Assistance Program. September 2008. [http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/reg\\_supp/trel08-28.pdf](http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/reg_supp/trel08-28.pdf).
- U.S. Fish and Wildlife Service (USFWS). 1997. *Coastal California Gnatcatcher (Poliophtila californica californica) Presence/Absence Survey Protocol*. Carlsbad, California. July 28, 1997.
- USFWS. 2001. *Least Bell's Vireo Survey Guidelines*. Carlsbad, California. January 19, 2001.
- USFWS. 2018a. *Information for Planning and Consultation*. Accessible online at: <https://ecos.fws.gov/ipac/>.
- USFWS. 2018b. *Critical Habitat Portal*. Accessible online at: <http://ecos.fws.gov/crithab/>.
- USFWS. 2018c. *National Wetland Inventory*. <https://www.fws.gov/wetlands/data/Mapper.html>.
- Wetland Training Institute. 1999. *Field Guide for Wetland Delineation – 1987 Corps of Engineers Manual*.
- WRA. 2007. *Big Canyon Creek Restoration Project Phase II Feasibility Study, Final Report*. Prepared for the City of Newport Beach. June.

This page left intentionally blank

# APPENDIX A

## **Jurisdictional Delineation Report**





# **Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A**

## Draft Jurisdictional Delineation Report

Prepared for  
Newport Bay Conservancy  
P.O. Box 10804  
Newport Beach, CA 92658

May 2018



# **Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A**

## **Draft Jurisdictional Delineation Report**

Prepared for  
Newport Bay Conservancy  
P.O. Box 10804  
Newport Beach, CA 92658

May 2018



550 West C Street  
Suite 750  
San Diego, CA 92101  
619.719.4200  
[www.esassoc.com](http://www.esassoc.com)

|              |            |               |
|--------------|------------|---------------|
| Bend         | Oakland    | San Francisco |
| Camarillo    | Orlando    | Santa Monica  |
| Delray Beach | Pasadena   | Sarasota      |
| Destin       | Petaluma   | Seattle       |
| Irvine       | Portland   | Sunrise       |
| Los Angeles  | Sacramento | Tampa         |
| Miami        | San Diego  |               |

171060

# TABLE OF CONTENTS

## Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A Jurisdictional Delineation Report

|                                                 | <u>Page</u> |
|-------------------------------------------------|-------------|
| <b>1. Introduction and Purpose .....</b>        | <b>1</b>    |
| 1.1 Project Location and Setting .....          | 1           |
| 1.2 Project Objectives and Description .....    | 1           |
| <b>2. Regulatory Framework .....</b>            | <b>2</b>    |
| 2.1 Waters of the United States .....           | 2           |
| 2.2 Waters of the State .....                   | 3           |
| <b>3. Methods .....</b>                         | <b>4</b>    |
| 3.1 Database and Literature Review .....        | 4           |
| 3.2 Field Surveys .....                         | 5           |
| 3.3 Hydrological / Hydraulic Modeling .....     | 6           |
| <b>4. Results and Conclusions .....</b>         | <b>6</b>    |
| 4.1 Vegetation .....                            | 7           |
| 4.2 Soils .....                                 | 10          |
| 4.3 Hydrology and Water Quality .....           | 10          |
| 4.4 Jurisdictional Status .....                 | 12          |
| <b>5. Supplemental Information .....</b>        | <b>13</b>   |
| 5.1 Directions to the Project Area .....        | 13          |
| 5.2 Field Delineators Contact Information ..... | 13          |
| 5.3 Client Contact Information .....            | 14          |
| <b>6. References .....</b>                      | <b>14</b>   |

### Tables

|                                                                                     |    |
|-------------------------------------------------------------------------------------|----|
| 1. Draft Jurisdictional Resources within the Big Canyon Phase 2A Project Area ..... | 12 |
|-------------------------------------------------------------------------------------|----|

### Figures

|   |                                |
|---|--------------------------------|
| 1 | Regional Location Map          |
| 2 | Project Vicinity Map           |
| 3 | Project Aerial                 |
| 4 | Topography                     |
| 5 | Soils                          |
| 6 | National Wetlands Inventory    |
| 7 | Vegetation Communities         |
| 8 | Draft USACE/RWQCB Jurisdiction |
| 9 | Draft CDFW/CCC Jurisdiction    |

### Appendices

|            |                    |
|------------|--------------------|
| Appendix A | Draft PJD Form     |
| Appendix B | Site Photographs   |
| Appendix C | OHWB Datasheets    |
| Appendix D | Wetland Datasheets |

This page left intentionally blank

# BIG CANYON COASTAL HABITAT RESTORATION AND ADAPTATION PROJECT – PHASE 2A

---

## Jurisdictional Delineation Report

### 1. Introduction and Purpose

Environmental Science Associates (ESA) conducted a jurisdictional delineation for the Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A (project) in Newport Beach, Orange County, California (**Figure 1**). This delineation was conducted to inform project planning and environmental review under the California Environmental Quality Act. The result provided in this report will also be used for regulatory permit applications submitted for the project under the federal Clean Water Act (CWA), the State Water Quality Certification process, and the Streambed Alteration Notification and Agreement through the California Department of Fish and Wildlife (CDFW).

#### 1.1 Project Location and Setting

The 11.3-acre Phase 2A project area is located in the 60-acre Big Canyon Nature Park at the downstream end of the Big Canyon Watershed in the city of Newport Beach, Orange County, California (**Figures 2 and 3**).

The Big Canyon Watershed covers approximately two square miles located on the east side of Upper Newport Bay. Big Canyon Creek winds through the Big Canyon Nature Park in a general southeast to northwest direction and then discharges into Upper Newport Bay. Big Canyon, west of Jamboree Road, is the only natural, undeveloped portion of the Big Canyon watershed and the only significant remaining natural canyon on the east side of Newport Bay. The Big Canyon Nature Park area has been influenced by historic disturbances including construction of salt evaporation pond, placement of dredge and fill material, interim restoration efforts, and other anthropogenic activities. Stockpiling of dredge fill during the 1950s and 1960s within Big Canyon Creek raised the elevations within the canyon and consequently channelized the creek to the north. Inspection of a series of historic aerial photographs did not clearly indicate any intentional deposits of dredged or spoil material in the Phase 2A site.

#### 1.2 Project Objectives and Description

Big Canyon Creek has been documented as a suitable candidate for habitat restoration and enhancement due to watershed impacts from channel incision, loss of floodplain, unstable banks, poor water quality, and aggressive encroachment of invasive species. Large areas of the riparian habitat within the Nature Park are dominated by non-native invasive species. This has noticeably

impacted the function and habitat quality of the coastal watershed in and along Big Canyon Creek. Without restoration efforts, the native habitats will rapidly disappear with a corresponding impact to the sensitive species within this coastal ecosystem.

Big Canyon Creek is listed as an impaired waterbody for selenium and a total maximum daily load (TMDL) has been established for the creek. Big Canyon Creek is one of the few perennial streams that discharge to Upper Newport Bay. Concentrations of selenium above water quality guidelines have been measured in dry weather flows in Big Canyon Creek. The City has developed and is implementing a selenium reduction program in the watershed that includes additional measures under Phase I of the Big Canyon Restoration and Water Quality Improvement program that is funded and is planned for implementation in 2016-17. These measures will reduce selenium loading by 70%–90% and allow for sustainable restoration downstream in Phase II.

The Phase 2A Restoration Project is being planned and will be implemented by the Newport Bay Conservancy. The City of Newport Beach (City) completed construction of Phase 1A of the multiphase restoration project in 2017 and is currently maintaining that area. The Phase 2A project is now planned to be implemented downstream of Phase 1, and occurs entirely on City property. The Phase 2A Restoration project would involve removing non-native vegetation and replanting native species to restore a mosaic of appropriate native riparian, wet alkali meadow, high alkali meadow, and upland transitional habitats. The project is intended to improve the site's resilience to infestation by the Polyphagous Shot Hole Borer (PSHB) through various means and will stabilize the creek and improve its connection with the floodplain by pulling back incised steep banks and implementing erosion control measures using plantings. Finally, the project is being designed to discourage mosquito breeding, improve water quality and encourage public access for education and passive recreation.

Phases 2B and 2C are immediately downstream from Phase 2A and occur on property owned by the CDFW. Restoration of these areas is expected to include invasive plant removal and management, stream corridor enhancement, remediation of the selenium-impacted freshwater pond and revegetation with native plants. Phases 2B and 2C are not considered or characterized in this jurisdictional delineation.

## **2. Regulatory Framework**

### **2.1 Waters of the United States**

The U.S. Army Corps of Engineers (USACE) and the Environmental Protection Agency (EPA) have issued guidance documents detailing the process for determining Clean Water Act (CWA) jurisdiction over waters of the United States (WOTUS) following the Rapanos decision. The EPA and USACE issued a summary memorandum of the guidance for implementing the Supreme Court's decision in Rapanos that addresses the jurisdiction over WOTUS under the CWA.

## Rapanos Key Points Summary

- (A) USACE and the EPA will assert jurisdiction over the following waters:
- Traditional Navigable Waters (TNWs)
  - Wetlands adjacent to TNWs
  - Non-navigable tributaries of TNWs that are relatively permanent
  - Where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months)
  - Wetlands that directly abut such tributaries
- (B) USACE and the EPA will decide jurisdiction over the following waters based on a fact-specific analysis to determine whether they have a significant nexus with a TNW:
- Non-navigable tributaries that are not relatively permanent
  - Wetlands adjacent to non-navigable tributaries that are not relatively permanent
  - Wetlands adjacent to, but that do not directly abut, a relatively permanent non-navigable tributary
- (C) USACE and the EPA generally will not assert jurisdiction over the following features:
- Swales or erosion features (e.g., gullies, small washes characterized by low volume, infrequent, or short duration flow)
  - Ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water

## 2.2 Waters of the State

### Santa Ana Regional Water Quality Control Board

Most projects involving water bodies or drainages are regulated by the Regional Water Quality Control Board (RWQCB), the principal state agency overseeing water quality of the state at the local/regional level. The project is located within the jurisdiction of the Santa Ana RWQCB. The State Water Resources Control Board (State Water Board) directly regulates multi-regional projects and supports the Section 401 certification and wetlands program statewide. The RWQCB regulates activities pursuant to Section 401(a)(1) of the federal CWA, which specifies that certification from the State is required for any applicant requesting a federal license or permit to conduct any activity including but not limited to the construction or operation of facilities that may result in any discharge into navigable waters. The certification shall originate from the State or appropriate interstate water pollution control agency in/where the discharge originates or will originate. Any such discharge will comply with the applicable provisions of Sections 301, 302, 303, 306, and 307 of the CWA.



## California Department of Fish and Wildlife

Pursuant to Division 2, Chapter 6, Section 1602 of the Fish and Game Code, CDFW regulates all diversions, obstructions, or changes to the natural flow or bed, channel or bank of any river, stream, or lake which supports fish or wildlife. A notification of a Lake or Streambed Alteration must be submitted to CDFW for “any activity” that may substantially change the bed, channel, or bank of any river, stream or lake.” In addition, CDFW has jurisdiction over riparian habitats and wetlands associated with watercourses. As defined by the California Fish and Game Code, “wetlands” means lands which may be covered periodically or permanently with shallow water and which include saltwater marshes, freshwater marshes, open or closed brackish water marshes, swamps, mudflats, fens, and vernal pools (FGC Section 2785). Jurisdictional waters are delineated by the outer edge of riparian vegetation or at the top of the bank of a stream or lake, whichever is wider. CDFW jurisdiction does not include tidal areas or isolated resources. CDFW reviews proposed actions and, if necessary, submits to the applicant a proposal that includes measures to protect affected fish and wildlife resources. The final proposal that is mutually agreed upon by CDFW and the applicant is the Lake or Streambed Alteration Agreement.

## California Coastal Commission

The California Coastal Commission (CCC) regulates activities found within wetlands in the coastal zone. The Coastal Act Section 30121 (California Coastal Act as of January 1, 2005) defines wetlands as “lands within the coastal zone which may be covered periodically or permanently with shallow water and include saltwater marshes, freshwater marshes, open or closed brackish water marshes, swamps, mudflats, and fens.” Subsequent Statewide Interpretive guidelines has refined the definition based upon the U.S. Fish and Wildlife Service definition (Cowardin et al. 1979), which is as follows: “Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For the purposes of this classification wetlands must have one or more of the following three attributes: (1) at least periodically, the land supports predominantly hydrophytes, (2) the substrate is predominantly undrained hydric soil, and (3) the substrate is non-soil and is saturated with water or covered by shallow water at some time during the growing season of each year.” This definition is used as a guide for defining wetlands. The CCC can also rely on other information, advice and judgment of other experts in determining jurisdiction.

## 3. Methods

### 3.1 Database and Literature Review

Prior to conducting the jurisdictional delineation, ESA conducted a review of available background information pertaining to the project area. A desktop analysis using aerial maps (Google Earth 2018) was conducted to determine the limits of CDFW-jurisdictional areas. The following resources were also reviewed or used prior to the field surveys and during the desktop delineation of resources:

- Topographic contour mapping provided by Burns and McDonnell (**Figure 4**)
- *The National Wetland Plant List*: 2016 wetland ratings (Lichvar et al. 2016)

- Natural Resources Conservation Service (NRCS) *Web Soil Survey* (**Figure 5**; NRCS 2018)
- *Hydric Soils List of California, 2016* (NRCS 2016)
- *National Wetlands Inventory* (**Figure 6**; USFWS 2018)
- *Big Canyon Habitat Restoration and Water Quality Treatment Improvement Project Jurisdictional Delineation Report* (ESA 2015)
- *Biological Resources Inventory Report for the Big Canyon Nature Park Project, City of Newport Beach, Orange County, California* (Dudek 2015)

Site maps were generated with available aerial photographs and potentially jurisdictional features were identified and marked with lines and global positioning system (GPS) coordinates to assist in field verification.

## 3.2 Field Surveys

ESA biologists Julie Stout and Tommy Molioo conducted site visits on March 26 and 27, 2018, to evaluate potentially jurisdictional features within the project area. The limits of potential jurisdictional features were recorded based on field data points and lines recorded with a Trimble GNSS device and were then refined using desktop mapping based on aerial imagery and topographic contour lines.

## Waters of the United States

### ***Wetland Waters of the United States***

The presence/absence of federal wetlands was determined through implementation of the methods described in the *U.S. Army Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Arid West Region (Version 2.0)* (USACE 2008a). Hydrophytic vegetation was based on the Arid West Subregion indicator status designations in the *2016 National Wetland Plant List* (Lichvar et al. 2016). The delineation was based on the results of wetland determination data points, topographical contour mapping, and field observations of hydrophytic vegetation and wetland hydrology indicators.

### ***Non-Wetland Waters of the United States***

Non-wetland WOTUS were delineated based on the *Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2008b). Non-wetland WOTUS were mapped to the outer extent of the OHWM where one or more USACE wetland parameters were absent. The OHWM of channels was determined based on observations of physical evidence that included direct observations of flow, scour marks, and drift lines of debris. The limits of non-wetland WOTUS were confined to the ordinary limits of flow and exclude the upper banks beyond the active floodplain.

## **Waters of the State**

### ***California Department of Fish and Wildlife***

CDFW-jurisdictional waters included riparian habitats associated with watercourses and were delineated to the outer extent of the dripline of riparian vegetation. CDFW jurisdiction also includes the upper portions of streambank above the OHWM limit.

### ***Regional Water Quality Control Board***

It is assumed for the purpose of this report that USACE-jurisdictional areas are also under the jurisdiction of the RWQCB, and are subject to the CWA.

### ***California Coastal Commission***

It is assumed for the purpose of this report that CDFW-jurisdictional areas are also under the jurisdiction of the CCC, with the exception of upland streambanks lacking hydrophytic vegetation.

## **3.3 Hydrological / Hydraulic Modeling**

Modeling of flood patterns was used to inform an understanding of the anticipated extent of surface flow coverage in the project area in typical years. Hydrology and hydraulics for the Big Canyon Restoration Phase 2 project were developed using the US Army Corps of Engineers HEC-HMS (Hydraulic Engineering Center - Hydrology Modeling System) version 4.2 and HEC-RAS (River Analysis System) version 5.03 modeling software. Hydrology was developed for the 2-, 10-, and 25-year recurrence interval storm events using publically available data. A 2D hydraulic model was developed to understand general flooding patterns at the Project site using the output hydrology from the HMS model.

These models were intended for planning purposes only. The 2D hydraulic model's terrain was developed using limited survey data of channel cross sections and LiDAR. This limits the accuracy of flooding depth, extents, and timing of flooding. A more detailed analysis of watershed characteristics (hydrology) and project site conditions (topography and vegetation roughness) would be needed for design.

## **4. Results and Conclusions**

The results of the database/literature review and jurisdictional delineation are discussed in this section. The project area contains wetland and non-wetland WOTUS regulated by USACE and the RWQCB; streambed, streambank, and riparian areas regulated by CDFW; and CCC-regulated wetlands.

A Draft Preliminary Jurisdictional Determination Form is included as Appendix A; representative photographs from the field delineation are included as Appendix B; OHWM datasheets are included as Appendix C; and wetland datasheets are included as Appendix D.

## 4.1 Vegetation

Throughout much of the project area, the vegetation is highly disturbed. Non-native Brazilian pepper tree (*Schinus terebinthifolius* [FAC<sup>1</sup>]) dominates the majority of the project area, while other portions are composed of native vegetation or intermixed communities with both native and non-native species. As a result, portions of the project area are composed of a mosaic of different types, levels of disturbance, and status of succession, rather than distinct, well-defined habitat types. The vegetation communities are described below according to the Orange County Habitat Classification System (Jones and Stokes 1993; Gray and Bramlet 1992) and California vegetation alliances (Sawyer et al. 2009) and shown on **Figure 7**.

Within the Big Canyon Creek floodplain, which occupies most of the project area, vegetation is predominantly hydrophytic, ranging from facultative species (mainly pepper tree) along the higher elevation portions of the floodplain to facultative-wetland species such as willows (*Salix* spp.) and wetland-obligate species such as cattails (*Typha latifolia* [OBL<sup>2</sup>]) in lower-elevation areas with a higher water table. Along the northern section of the site, salt-tolerant alkali heath (*Frankenia salina* [FACW<sup>3</sup>]) dominates where soil testing has indicated that the pH ranges from 7 to 8. Descriptions of the vegetation communities and land covers identified within the project area are provided below.

### Wetland and Riparian Vegetation Communities

#### Mixed Arroyo Willow/Pepper Tree Grove

Mixed arroyo willow/pepper tree grove (i.e., Arroyo Willow Riparian Forest or Arroyo Willow Thickets (*Salix lasiolepis* Shrubland Alliance); Ornamental Landscaping) is characterized by a canopy cover dominated by mature arroyo willow (*Salix lasiolepis* [FACW]) with an understory of smaller willows, mulefat (*Baccharis salicifolia* [FAC]), and variable herbaceous layer. This alliance is found within stream banks and benches, slope seeps, and stringers along drainages (Sawyer et al. 2009). Species associated with this alliance include non-native Brazilian pepper tree, myoporum (*Myoporum laetum* [FACU<sup>4</sup>]), and Shamel ash (*Fraxinus uhdei* [NL<sup>5</sup>]), as well as native toyon (*Heteromeles arbutifolia* [NL]), cattail (*Typha* spp. [OBL]), California rose (*Rosa californica* [FAC]), California bulrush (*Schoenoplectus californicus* [OBL]), western ragweed (*Ambrosia psilostachya* [FACU]), yerba mansa (*Anemopsis californica* [OBL]), giant wildrye (*Elymus condensatus* [NL]), and southwestern spiny rush (*Juncus acutus* ssp. *leopoldii* [FACW]).

---

<sup>1</sup> Facultative (FAC) species are equally likely to occur in wetlands and non-wetlands (Lichvar et al. 2016).

<sup>2</sup> Obligate wetland (OBL) species almost always occur in wetlands under natural circumstances wetlands (Lichvar et al. 2016).

<sup>3</sup> Facultative wetland (FACW) species usually occur in wetlands but are occasionally found in non-wetlands (Lichvar et al. 2016).

<sup>4</sup> Facultative upland (FACU) species usually occur in non-wetlands but occasionally are found in wetlands (Lichvar et al. 2016).

<sup>5</sup> Not listed (NL) are those species not included on the 2016 National Plant List for the Arid West Region (Lichvar et al. 2016). These species are generally presumed to be non-wetland species except for those with data suggesting the species may be hydrophytic.

A total of 2.90 acres of mixed arroyo willow/pepper tree grove were mapped primarily within the northwestern and southern portions of the project area.

Arroyo willow thickets are considered a special-status vegetation community by CDFW (61.201.01 – *Salix lasiolepis*) (CDFW 2018c).

### **Freshwater Marsh**

Freshwater marsh (i.e., Cattail Marshes Alliance (*Typha* [*angustifolia*, *domingensis*, *latifolia*] Herbaceous Alliance)) is characterized by a dominance of narrow-leaved cattail, slender cattail, or broad-leaved cattail in the herbaceous layer. This alliance is found within semi-permanently flooded freshwater or brackish marshes in association with soils that are clayey or silty (Sawyer et al. 2009). Species associated with this alliance include coyote brush (*Baccharis pilularis* [NL]) and Brazilian pepper tree. A total of 0.40 acre of freshwater marsh occurs within the southeastern portion of the project area.

### **Alkali Heath Marsh**

Alkali heath marsh (i.e., alkali marsh or Alkali Heath Marsh (*Frankenia salina* Herbaceous Alliance) is characterized by a dominance of alkali heath (*Frankenia salina*) in the herbaceous and subshrub layers, and portions of this community have a sub-dominance of saltgrass (*Distichlis spicata* [FAC]). This alliance is found within coastal salt marshes, brackish marshes, alkali meadows, and alkali playas, with soils that are saline, sandy to clayey alluvium (Sawyer et al. 2009). Species associated with this alliance include common woody pickleweed (*Salicornia pacifica* [OBL]), waxy saltbush (*Atriplex glauca* [NL]), Australian saltbush (*Atriplex semibaccata* [FAC]), and crystalline ice plant (*Mesembryanthemum crystallinum* [FACU]). A total of 0.58 acre of alkali heath marsh was mapped within the southeastern portion of the project area.

### **Pepper Tree Grove**

Pepper tree grove (i.e., Ornamental Landscaping or Pepper Tree or Myoporum Groves (*Schinus* [*molle*, *terebinthifolius*] – *Myoporum laetum*)) is characterized by a dominance of non-native Brazilian pepper tree with a continuous tree canopy and minimal shrub and herbaceous layer. Portions of this community have a strong co-dominance of myoporum. Species associated with this alliance include non-native Shamel ash, Mexican fan palm (*Washingtonia robusta* [FACW]), nettleleaf goosefoot (*Chenopodium murale* [FACU]), horehound (*Marrubium vulgare* [FACU]), curly dock (*Rumex crispus* [FAC]), blessed milkthistle (*Silybum marianum* [NL]), bristly oxtongue (*Helminthotheca echioides* [FAC]), dwarf nettle (*Urtica urens* [NL]), cheeseweed (*Malva parviflora* [NL]), and garden nasturtium (*Tropaeolum majus* [NL]), as well as native poison oak (*Toxicodendron diversilobum* [FACU]) and common bedstraw (*Galium aparine* [FACU]). A total of 6.34 acres of pepper tree grove occurs within the northern and central portions of the project area, which is the most abundant community on-site.

## **National Wetland Inventory Classifications**

The National Wetland Inventory (NWI) identifies two classes of wetlands within the project boundaries: Freshwater Forested/Shrub Wetland and Freshwater Emergent (**Figure 6**). Each of

these communities are described according to their Cowardin et al. (1979) classification below. The NWI mapping was done at a very broad scale and is provided here to distinguish the different community classifications as they may be applied within the Phase 2A project site. Table 1, below, correlates the much more accurately mapped vegetation types, described above, with the appropriate wetland classifications as defined below and refined to apply accurately to the vegetation encountered in the subject site.

### ***Freshwater Forested/Shrub Wetland***

**System PALUSTRINE:** The Palustrine System includes all non-tidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens, and all such wetlands that occur in tidal areas where salinity due to ocean-derived salts is below 0.5 parts per thousand (ppt). It also includes wetlands lacking such vegetation, but with all of the following four characteristics: (1) area less than 8 hectare (20 acres); (2) active wave-formed or bedrock shoreline features lacking; (3) water depth in the deepest part of basin less than 2.5 meters (8.2 feet) at low water; and (4) salinity due to ocean-derived salts less than 0.5 ppt.

**Class FORESTED:** Characterized by woody vegetation that is 6 meters tall or taller.

**Class EMERGENT:** Characterized by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. These wetlands are usually dominated by perennial plants.

**Subclass Persistent:** Dominated by species that normally remain standing at least until the beginning of the next growing season. This subclass is found only in the Estuarine and Palustrine systems.

**Water Regime Seasonally Saturated:** The substrate is saturated at or near the surface for extended periods during the growing season, but unsaturated conditions prevail by the end of the season in most years. Surface water is typically absent, but may occur for a few days after heavy rain and upland runoff.

### ***Freshwater Emergent Wetland***

**System PALUSTRINE:** The Palustrine System includes all nontidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens, and all such wetlands that occur in tidal areas where salinity due to ocean-derived salts is below 0.5 ppt. It also includes wetlands lacking such vegetation, but with all of the following four characteristics: (1) area less than 8 hectares (20 acres); (2) active wave-formed or bedrock shoreline features lacking; (3) water depth in the deepest part of basin less than 2.5 meters (8.2 feet) at low water; and (4) salinity due to ocean-derived salts less than 0.5 ppt.

**Class EMERGENT:** Characterized by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. These wetlands are usually dominated by perennial plants.

**Subclass Persistent:** Dominated by species that normally remain standing at least until the beginning of the next growing season. This subclass is found only in the Estuarine and Palustrine systems.

**Class SCRUB-SHRUB:** Includes areas dominated by woody vegetation less than 6 meters (20 feet) tall. The species include true shrubs, young trees (saplings), and trees or shrubs that are small or stunted because of environmental conditions.

**Water Regime Seasonally Saturated:** The substrate is saturated at or near the surface for extended periods during the growing season, but unsaturated conditions prevail by the end of the season in most years. Surface water is typically absent, but may occur for a few days after heavy rain and upland runoff.

## 4.2 Soils

The U.S Department of Agriculture's NRCS maps show most of the lower central area of Phase 2A in Big Canyon as "tidal flats" and the eastern slope area as Cieneba sandy loam, with some Anaheim clay loam included bulging into the site from the slopes to the southwest (**Figure 5**). Among these soil types, tidal flats, based on the range of characteristic for the soil series, would at least in part meet one or more field indicators or hydric soils or show evidence that the soil meets the definition of a hydric soil (NRCS 2016). However, tidal flat is a remnant map unit based on previous conditions in the project area. The project area is no longer tidally influenced but does retain a high salt content within the soil.

Soils at the wetland determination data points were highly variable and often included multi-layered fluvial deposits. Soil textures included layers of muck, clay loam, sand, silty clay, sandy clay, loamy sand, sandy clay loam, sandy loam, and loam. With the exception of the higher elevation portions of the floodplain, these soils generally exhibited hydric soil indicators within the surface layers, including indicators meeting the criteria for depleted matrix and redox dark surface. Along the northeastern portion of the site, hydric soil indicators were frequently lacking. In these areas, soil samples were highly alkaline with a pH of approximately 8. Redox concentrations and depletions do not readily form in saturated soils with a high pH; therefore, these soils were considered problematic and presumed hydric due to the presence of hydrophytic vegetation and wetland hydrology.

## 4.3 Hydrology and Water Quality

Big Canyon Creek within the project area receives flows from a combination of natural rainfall and urban runoff. Within the Phase 2A project area, the creek is intermittent with a northwest flow direction. The creek flows from the project area through a triple culvert/Arizona crossing into the Phase 2B site and 2C sites. The Phase 2B and 2C sites overflow into Upper Newport Bay and are separated from tidal influence by culverted spillways running under Back Bay Drive.

The Big Canyon Creek Watershed covers approximately 1,280 acres and drains directly into Upper Newport Bay (WRA Environmental Consultants 2009). The project area is within the

Upper Newport Bay Hydrologic Unit (801.11) (RWQCB 2016). The creek flows from southeast to northwest through the 60-acre Big Canyon Creek Nature Park. The lower portion of Big Canyon is within the Upper Newport Bay State Ecological Reserve. Big Canyon is the only natural, undeveloped portion of the Big Canyon Creek watershed, and the only significant remaining natural canyon on the east side of Newport Bay.

The site contains slow moving water more than 14 days per year, and connects with Newport Bay and the Pacific Ocean, a Traditional Navigable Water, rendering it USACE-jurisdictional. A series of braided channels meander throughout the active floodplain, which includes the majority of the project area. Evidence of overbank flow was prevalent throughout the project area, thus extending the USACE jurisdiction to the outer edges of habitat, and not confined to just the active low-flow channel. Modeling also indicated that the entire lower part of the Phase 2A site is expected to be subject to brief flooding during storms that could be experienced as often as every 2-years (e.g., 2-year storm was considered equivalent to 2" of rainfall within 24 hours). Evidence of flows, including debris deposits, scouring, root exposure, silt deposits, and clearing of leaf litter, coupled with the hydraulic modeling, indicates that Big Canyon Creek frequently overflows the main channel and that overbank flows cover practically the entire basin area from bank to bank in many years. Thus the Ordinary High Water Mark is indicated to generally correspond to the toe of the slope on either side of the site.

Big Canyon Creek's watershed of approximately two square miles is highly urbanized and completely developed and contributes significant water flow to the project area. The Creek drains this watershed directly into Upper Newport Bay. The headwaters are located near the San Joaquin Reservoir east of MacArthur Blvd. Big Canyon Creek is in a natural, un-channelized condition within the project area. The natural function of Big Canyon includes accommodating storm events and flooding; during large floods, such as a 100-year flood, the entire canyon floor is inundated.

The creek carries fertilizers and pesticides from lawns, landscaping, and golf courses and pollutants from cars, streets, and paved areas upstream of the project area. During storms, water sampling has shown very high levels of fecal bacteria at the Big Canyon Creek outlet in Upper Newport Bay based on 2004 monitoring results (WRA Environmental Consultants 2009). Preliminary studies of the water quality and sediment in this drainage revealed water quality exceedances for selenium (over the 5 µg/L chronic criterion for protection of aquatic life (Weston 2007 as cited in WRA Environmental Consultants 2009). Results from a 2008 monitoring program showed that all freshwater Big Canyon Creek sites were in exceedance of the California and national water quality criterion value for selenium (WRA Environmental Consultants 2009).

Upper Newport Bay is listed as an impaired water body under section 303(d) of the Clean Water Act. According to this classification, the following contaminants occur in both Upper and Lower Newport Bay: pesticides and metals, nutrients, pathogens, and sediments/siltation. TMDLs for Newport Bay have been established for sediments, nutrients, and fecal coliform. The project intends to help meet these TMDLs by addressing the polluted runoff in the creek before contaminated water reaches Upper Newport Bay. The proposed project includes an integrated



system of water quality improvement components, erosion, and sedimentation control and use of natural habitats (WRA Environmental Consultants 2009).

## 4.4 Jurisdictional Status

Wetlands and waters under the jurisdiction of the USACE, RWQCB, CDFW, and CCC are present within the project area (**Figures 8 and 9**). Potentially jurisdictional areas are summarized by resource agency and vegetation community in **Table 1**.

**TABLE 1**  
**DRAFT JURISDICTIONAL RESOURCES WITHIN THE BIG CANYON PHASE 2A PROJECT AREA (ACRES)<sup>1</sup>**

| Vegetation Alliance<br>(Cowardin Classification) <sup>2</sup> | USACE/RWQCB      |                    |                    | CDFW/CCC                               |                     |                                               |
|---------------------------------------------------------------|------------------|--------------------|--------------------|----------------------------------------|---------------------|-----------------------------------------------|
|                                                               | Non-<br>Wetland  | Wetland            | Total              | CDFW/<br>CCC<br>Exclusive <sup>3</sup> | CCC<br>Total        | CDFW Total<br>(total of all<br>jurisdictions) |
| Alkali Heath Marsh<br>(PEM1Ei)                                | -                | 0.42               | 0.42               | 0.16                                   | 0.58                | 0.58                                          |
| Freshwater Marsh<br>(PEM1E)                                   | -                | 0.40               | 0.40               | -                                      | 0.40                | 0.40                                          |
| Mixed Arroyo Willow / Pepper Tree Grove<br>(PFOE)             | 0.79<br>(264 lf) | 1.72<br>(368 lf)   | 2.51<br>(632 lf)   | 0.39                                   | 2.90<br>(632 lf)    | 2.90<br>(632 lf)                              |
| Pepper Tree Grove<br>(PFO3E)                                  | 2.14<br>(124 lf) | 3.60<br>(866 lf)   | 5.74<br>(990 lf)   | 0.57                                   | 6.31<br>(990 lf)    | 6.31<br>(990 lf)                              |
| Total                                                         | 2.93<br>(388 lf) | 6.13<br>(1,234 lf) | 9.06<br>(1,622 lf) | 1.40                                   | 10.47<br>(1,622 lf) | 10.47<br>(1,622 lf)                           |

U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), California Department of Fish and Wildlife (CDFW), California Coastal Commission (CCC), linear feet (lf).

<sup>1</sup> Totals may not sum exactly due to rounding.

<sup>2</sup> Cowardin Classification Codes (Cowardin et al. 1979):

System: P- Palustrine; Class: EM-Emergent, FO-Forested; Subclass: 1-Persistent, 3-Broad-Leaved Evergreen;

Water Regime: E-Seasonally Flooded/Saturated; Water Chemistry: i-Alkaline

<sup>3</sup> CDFW/CCC exclusive jurisdiction refers to areas beyond jurisdictional wetlands and waters under USACE jurisdiction.

## Waters of the United States

Jurisdictional wetland and non-wetland WOTUS regulated by the USACE are found within the survey area and total 9.06 acres (Figure 8).

Non-wetland WOTUS cover portions of the floodplain not meeting all three wetland parameters and total 2.93 acres within the survey area. Non-wetland WOTUS were comprised of vegetated floodplains with mixed arroyo willow/pepper tree grove and pepper tree grove vegetation communities. Due to the dominance of Brazilian pepper tree [FAC], most non-wetland areas met the parameter for hydrophytic vegetation, but lacked indicators for hydrophytic soils and/or wetland hydrology. This included the broad floodplain area in the northwestern portion of the project area which showed evidence of infrequent sheet flow from large flood events (exposed roots, debris swept away) but lacked evidence of more frequent flooding or saturation based on the distance from and elevation above the incised main channel, dryness of soil during the site visit, and lack of hydric soil indicators. OHWM Datasheets are included as Appendix C.

Wetland WOTUS total 6.13 acres and include freshwater marsh, alkali heath marsh, mixed arroyo willow/pepper tree grove, and pepper tree grove vegetation communities within the Big Canyon Creek floodplain meeting wetland parameters for hydrophytic vegetation, hydric soils, and wetland hydrology. Wetlands were observed in areas proximal to the main channel, lower flood terraces, and areas where the main channel was less incised or along swales where, presumably, water would be able to saturate surrounding soils instead of rapidly draining. Wetland datasheets are included as Appendix D.

## **Waters of the State**

### ***CDFW***

Areas within CDFW jurisdiction refer to streambeds and associated riparian vegetation and wetlands. All areas under USACE jurisdiction were also determined to be under the jurisdiction of the CDFW. In addition, areas of riparian habitat that extend beyond the OHWM and upland streambanks are also regulated by the CDFW (Figure 9). A total of 10.47 acres of CDFW jurisdictional areas occur within the survey area, which includes the 9.06 acres of overlapping USACE jurisdiction.

### ***RWQCB***

All areas mapped as USACE-jurisdictional areas fall within the Section 401 authority of the RWQCB. Approximately 9.06 acres of the wetland and non-wetland waters of the State are found within the survey area (Figure 8).

### ***CCC Wetlands***

All areas mapped as CDFW jurisdictional areas are also mapped as CCC wetlands, according to their respective wetland definitions. A total of 10.47 acres of CCC-regulated wetlands occur in the project area (Figure 9).

## **5. Supplemental Information**

### **5.1 Directions to the Project Area**

From either Interstate 5 or Interstate 405, take Jamboree Road and proceed southwest into the City of Newport Beach. Turn right on San Joaquin Hills Road, then turn right on Back Bay Drive. Park at the designated Big Canyon parking lot on the left. The trail to access Big Canyon is across the street from the parking area.

### **5.2 Field Delineators Contact Information**

Julie Stout  
Environmental Science Associates  
550 West C Street, Suite 750  
San Diego, CA 92101  
(619) 719-4200  
jstout@esassoc.com

Tommy Molioo  
Environmental Science Associates  
2121 Alton Parkway, Suite 100  
Irvine, CA 92606  
(949) 753-7001  
tmolioo@esassoc.com

## 5.3 Client Contact Information

Newport Bay Conservancy  
Peter Bryant, President  
Heather Cieslak, Operations Director  
Josie Bennett, Project Manager for Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A  
Back Bay Science Center  
600 Shellmaker Road  
Newport Beach, CA 92660.

## 6. References

- Cowardin, L.M., V. Carter V., F.C. Golet, E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service Report No. FWS/OBS/-79/31. Washington, D.C.
- Dudek. 2015. Biological Resources Inventory Report for the Big Canyon Nature Park Project, City of Newport Beach, Orange County, California. August 17.
- Gray, J. and D. Bramlet. 1992. *Habitat Classification System: Natural Resources Geographic Information System (GIS) Project*. Unpublished report prepared for the Orange County Environmental Management Agency, Santa Ana California.
- Hickman, James C. ed. 1993. *The Jepson Manual*. University of California Press, Berkeley and Los Angeles, California.
- Jones & Stokes Associates, Inc. 1993. *Methods Used to Survey the Vegetation of Orange County Parks and Open Space Areas and The Irvine Company Property. February 10, 1993*. Sacramento, California. Prepared for County of Orange, Environmental Management Agency, Environmental Planning Division, Santa Ana, California.
- Environmental Laboratory. 1987. *U.S. Army Corps of Engineers Wetland Delineation Manual*. Prepared for the U.S. Army Corps of Engineers.
- Environmental Science Associates (ESA). 2015. *Big Canyon Habitat Restoration and Water Quality Treatment Improvement Project Jurisdictional Delineation Report*. December.
- Google Earth. 2018. Desktop application Available at: <http://www.google.com/earth/index.html>. Accessed March 2018.
- Lichvar, R.W., B. Allen, J. Byersdorfer, D. Cate, L. Dixon, and C. Photos. 2009. Vegetation and Channel Morphology Responses to Ordinary High Water Discharge Events in Arid West Stream Channels. U.S. Army Engineer Research and Development Center. ERDC/CRREL TR-09-5
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. The National Wetland Plant List: 2016 wetland ratings. *Phytoneuron* 2016-30: 1-17. Published 28 April 2016.
- Munsell. 2000. Munsell soil color charts. GretagMacbeth, New Windsor, New York, USA.

- Natural Resources Conservation Service (NRCS). 2010. 2010. *Field Indicators of Hydric Soils in the United States, Version 7.0, 2010*. Edited by L.M. Vasilas, G.W. Hurt, and C.V. Noble. U.S. Department of Agriculture, Natural Resources Conservation Service, in cooperation with the National Technical Committee for Hydric Soils.
- . 2016. *Hydric Soils List of California* Available at: <http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/use/hydric/>. Accessed March 2018.
- . 2018. Web Soil Survey. Available at: <http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>. Accessed March 2018.
- Santa Ana Regional Water Quality Control Board (RWQCB). 2016. 1995 Water Quality Control Plan for the Santa Ana River Basin (Region 8). Updated February 2008, June 2011, and February 2016.
- Sawyer, J.O., T. Keeler-Wolf, and J.M. Evens. 2009. *A Manual of California Vegetation, Second Edition*. California Native Plant Society, Sacramento, CA.
- U.S. Army Corps of Engineers (USACE). 2008a. *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States*. August.
- . 2008b. *Arid West Supplement to the 1987 Wetlands Delineation Manual*.
- . 2010. *Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States*. July.
- U.S. Fish and Wildlife Service. 2018. National Wetlands Inventory. Online Mapper. Accessed March 2018.
- WRA Environmental Associates. 2009. Big Canyon Creek Restoration Project Revised Initial Study Newport Beach, Orange County, California. June.

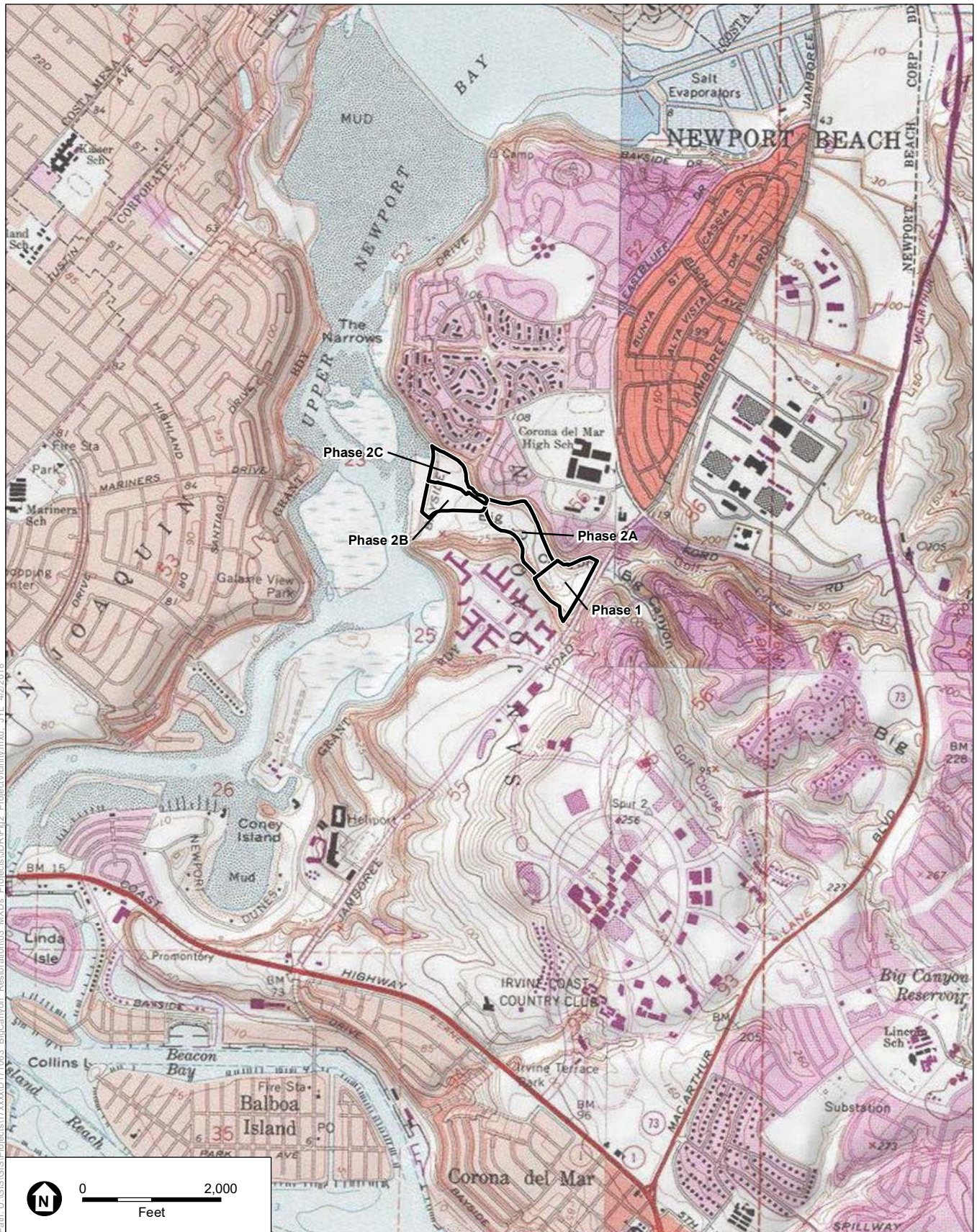
This page left intentionally blank

# Figures

---







SOURCE: USGS 7.5' Topo Quad Newport Beach 1977

Big Canyon Restoration - Phase 2A

**Figure 2**  
Project Vicinity





Path: U:\GIS\GIS\Projects\17xxxx\171063\_BigCanyon\_Restoration\03\_MXDs\_Projects\JDR\ProjectAerial.mxd, JYL 4/12/2018

SOURCE: ESRI; Digital Globe 10/21/2016

Big Canyon Restoration - Phase 2A

**Figure 3**

Project Area





SOURCE: ESRI; Digital Globe 10/21/2016

Big Canyon Restoration - Phase 2A

**Figure 4**

Topography





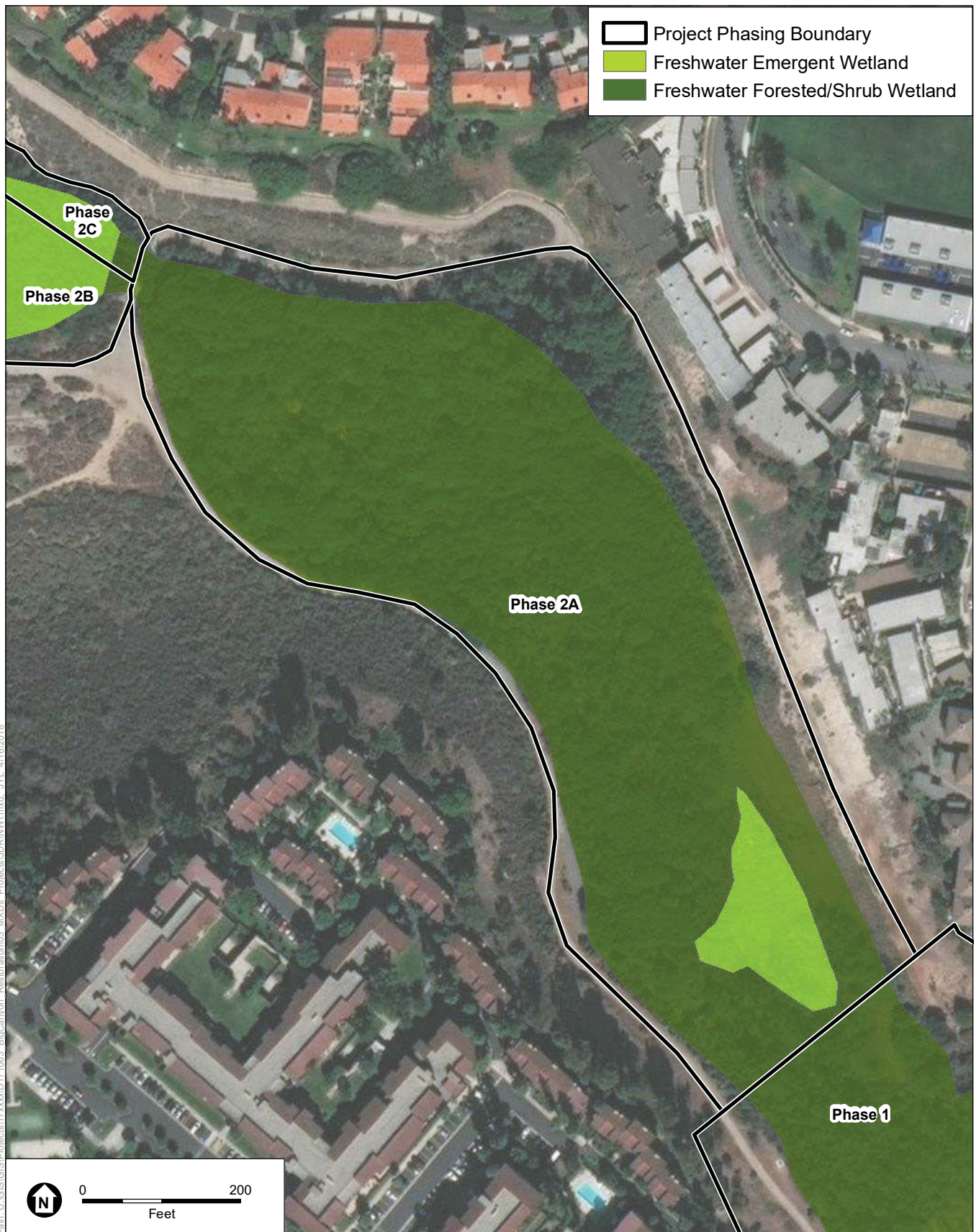
SOURCE: ESRI; Digital Globe 10/21/2016; SSURGO

Big Canyon Restoration - Phase 2A

**Figure 5**

Soils





SOURCE: ESRI; Digital Globe 10/21/2016; USFWS

Big Canyon Restoration - Phase 2A

**Figure 6**  
NWI Map



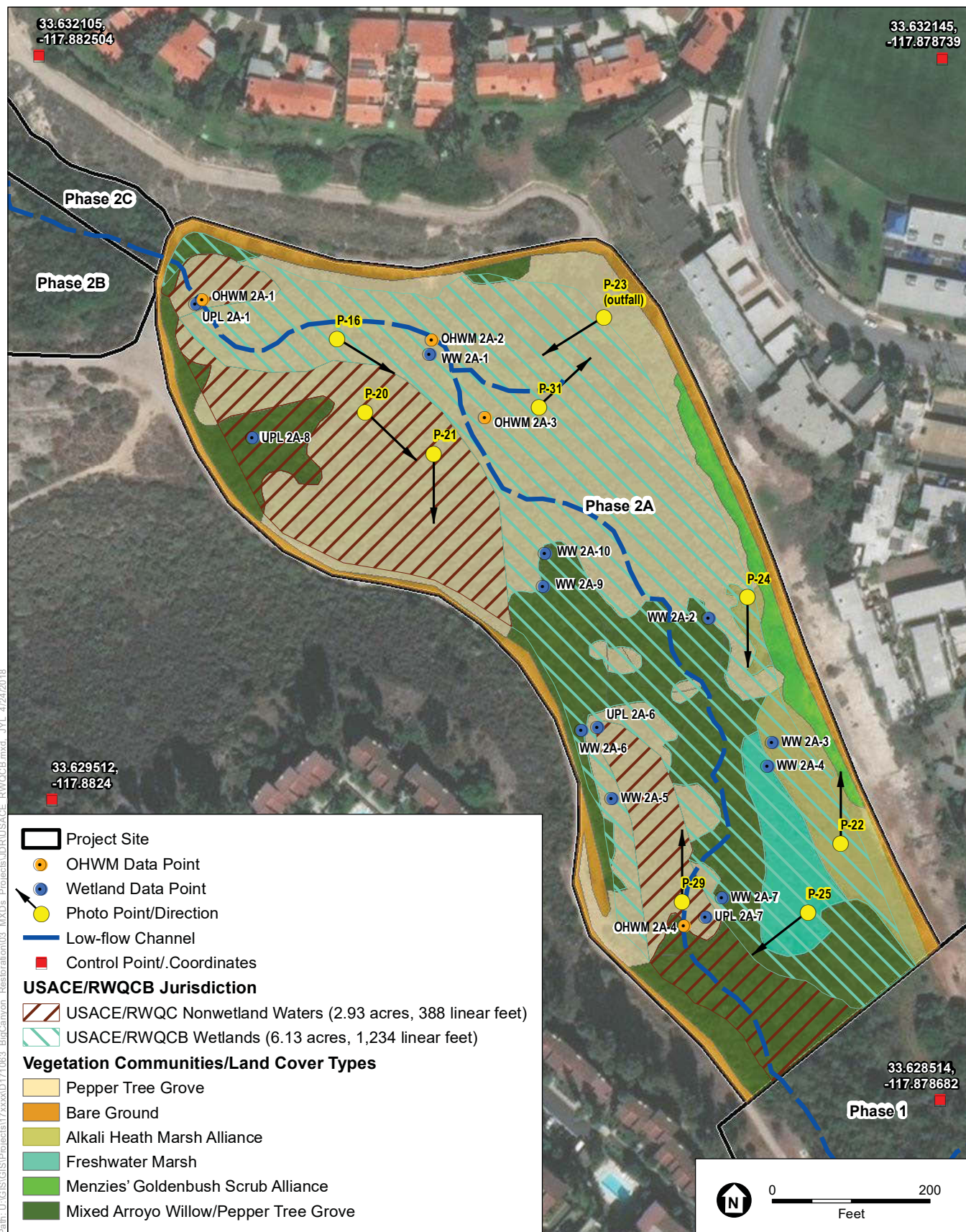


SOURCE:USFWS

Big Canyon Restoration - Phase 2A

**Figure 7**  
Vegetation Communities Map



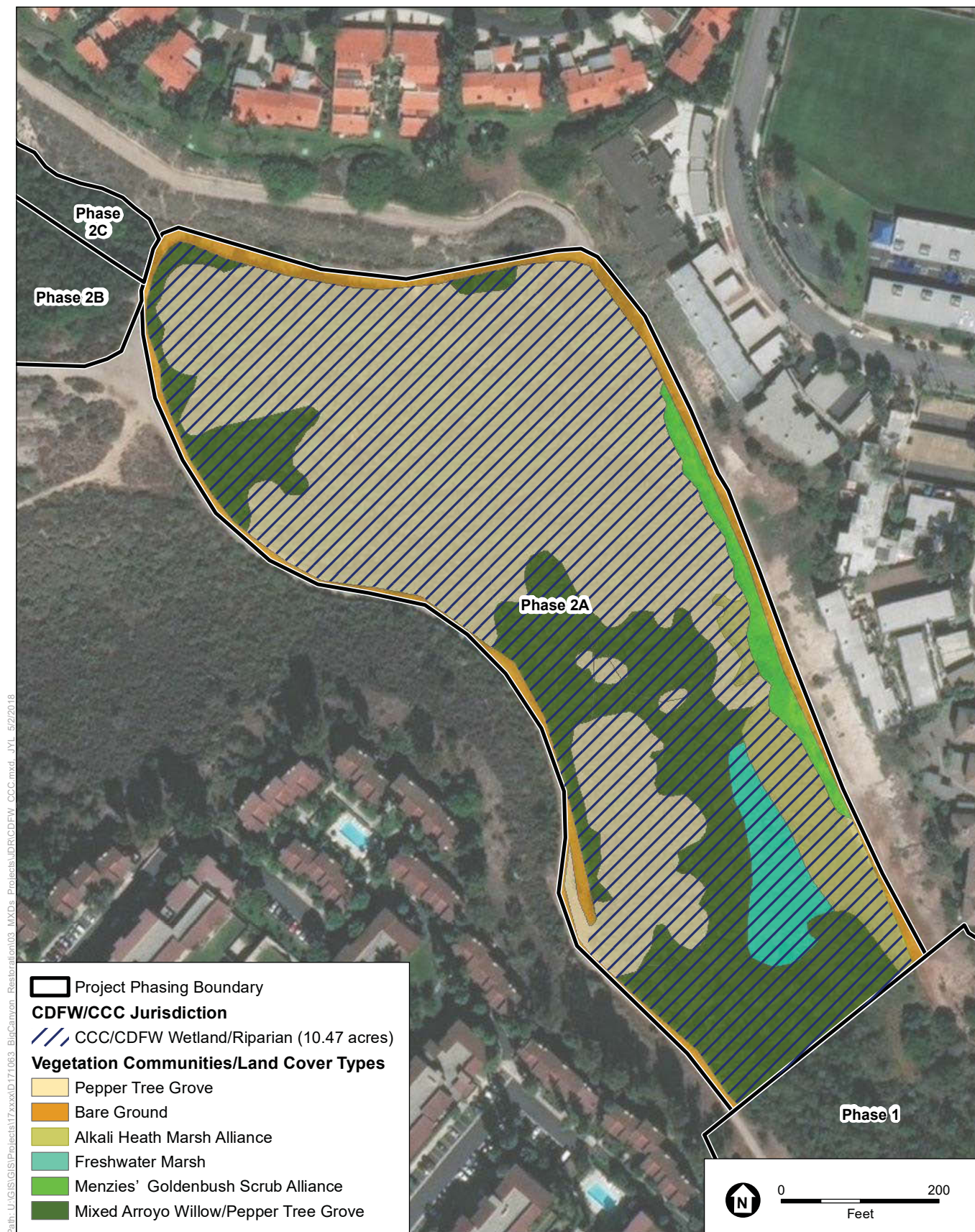


SOURCE: ESRI; Digital Globe 10/21/2016; ESA

Big Canyon Restoration - Phase 2A

**Figure 8**  
USACE/RWQCB Jurisdiction





SOURCE: ESRI; Digital Globe 10/21/2016; ESA

Big Canyon Restoration - Phase 2A

**Figure 9**  
CDFW/CCC Jurisdiction

This page left intentionally blank



## **Appendix A**

---

# Draft Preliminary Jurisdictional Determination Form

## PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there “*may be*” waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

District Office Los Angeles District

File/ORM #

PJD Date: Mar 26, 2018

State CA City/County Newport Bay/Orange

Nearest Waterbody: Upper Newport Bay

Location: TRS, LatLong or UTM: Township 6 South, Range 10 West, Section 24 33.631251, -117.881831

Name/  
Address of  
Person  
Requesting  
PJD

Newport Bay Conservancy

Identify (Estimate) Amount of Waters in the Review Area:

Non-Wetland Waters:

388 linear ft 300 width 2.93 acres

Stream Flow:

Intermittent

Name of Any Water Bodies  
on the Site Identified as

Tidal:

Section 10 Waters:

Non-Tidal:

Wetlands: 6.13 acre(s) Cowardin Class: Palustrine, forested

☐ Office (Desk) Determination

☒ Field Determination:

Date of Field Trip: Mar 26, 2018

**SUPPORTING DATA: Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):**

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
- ☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
  - ☐ Office concurs with data sheets/delineation report.
  - ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps
- ☐ Corps navigable waters' study:
- ☐ U.S. Geological Survey Hydrologic Atlas:
  - ☐ USGS NHD data.
  - ☐ USGS 8 and 12 digit HUC maps.
- ☒ U.S. Geological Survey map(s). Cite quad name:  Newport Beach 1977
- ☒ USDA Natural Resources Conservation Service Soil Survey. Citation:  Web Soil Survey (NRCS 2018)
- ☒ National wetlands inventory map(s). Cite name:  NWI online mapper (USFWS 2018)
- ☐ State/Local wetland inventory map(s):
- ☐ FEMA/FIRM maps:
- ☐ 100-year Floodplain Elevation is:
- ☒ Photographs: ☒ Aerial (Name & Date):  Google Earth 2004 - 2016
  - ☐ Other (Name & Date):
- ☐ Previous determination(s). File no. and date of response letter:
- ☒ Other information (please specify):  Topographic contour mapping

**IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.**

Signature and Date of Regulatory Project Manager  
(REQUIRED)

Signature and Date of Person Requesting Preliminary JD  
(REQUIRED, unless obtaining the signature is impracticable)

### EXPLANATION OF PRELIMINARY AND APPROVED JURISDICTIONAL DETERMINATIONS:

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring “preconstruction notification” (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

## PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there *"may be"* waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

### Appendix A - Sites

District Office  File/ORM #  PJD Date:

State  City/County  Person Requesting PJD

| Site Number | Latitude  | Longitude   | Cowardin Class       | Est. Amount of Aquatic Resource in Review Area | Class of Aquatic Resource  |
|-------------|-----------|-------------|----------------------|------------------------------------------------|----------------------------|
| 1           | 33.631087 | -117.880853 | Palustrine, forested | 5.31                                           | Non-Section 10 wetland     |
| 2           | 33.631251 | -117.881831 | Palustrine, forested | 2.93                                           | Non-Section 10 non-wetland |
| 3           | 33.629752 | -117.879399 | Palustrine, emergent | 0.82                                           | Non-Section 10 wetland     |
|             |           |             |                      |                                                |                            |
|             |           |             |                      |                                                |                            |
|             |           |             |                      |                                                |                            |

Notes:

## **Appendix B**

---

### **Site Photographs**



APPENDIX B - SITE PHOTOGRAPHS



1 - WW 2A-1 facing north



2 - WW 2A-3 facing west



3 - UPL 2A-1 facing north



4 - WW 2A-2 facing northwest



## APPENDIX B - SITE PHOTOGRAPHS



5 - WW 2A-5 facing east



6 - UPL 2A-6 facing south



7 - WW 2A-4 facing west



8 - WW 2A-6 facing northeast



## APPENDIX B - SITE PHOTOGRAPHS



9 - UPL 2A-7 facing southeast



10 - WW 2A-7 facing southeast



11 - WW 2A-9 facing south



12 - WW 2A-10 facing southeast



## APPENDIX B - SITE PHOTOGRAPHS



13 - OHWM 2A-1, low-flow channel facing northwest (downstream)



14 - OHWM 2A-1, low-flow channel facing northeast (across)



15 - OHWM 2A-1, low-flow channel facing southeast (upstream)



16 - Low-flow channel facing southeast (upstream)



## APPENDIX B - SITE PHOTOGRAPHS



17 - OHWM 2A-2, low-flow channel facing northwest (downstream)



18 - OHWM 2A-2, low-flow channel facing southeast (upstream)



19 - OHWM 2A-2, low-flow channel facing northeast (across)



20 - Active floodplain area facing southeast



## APPENDIX B - SITE PHOTOGRAPHS



21 - Active floodplain area facing south



22 - Alkali marsh area, south end facing north



23 - Outfall area facing southwest



24 - Alkali marsh area, north end facing south



## APPENDIX B - SITE PHOTOGRAPHS



25 - Marsh area facing southwest



26 - OHWM 2A-4, low-flow channel facing south (upstream)



27 - OHWM 2A-4, low-flow channel facing west (across)



28 - OHWM 2A-4, low-flow channel facing north (downstream)



## APPENDIX B - SITE PHOTOGRAPHS



29 - Low flow channel facing north (downstream)



30- OHWM 2A-3, low-flow channel facing southeast (upstream)



31 - Low-flow channel facing southeast (upstream)



32- OHWM 2A-3, low-flow channel and active floodplain facing south (across)

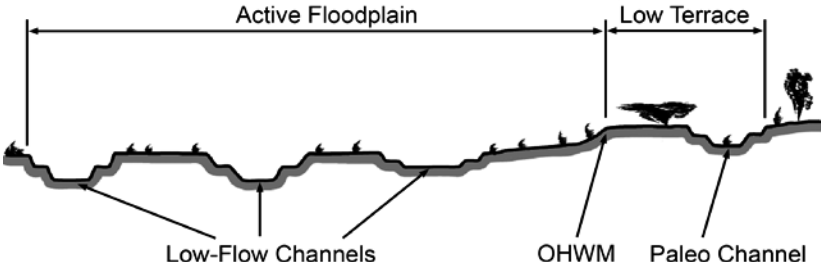


# **Appendix C**

---

## **OHWM Datasheets**

## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                    |  |                                                             |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|--|
| <b>Project:</b> Big Canyon Phase 2A<br><b>Project Number:</b><br><b>Stream:</b> Big Canyon Creek<br><b>Investigator(s):</b> Julie Stout, Tommy Molioo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <b>Date:</b> 3/26/2018<br><b>Town:</b> Newport Bay<br><b>Photo begin file#:</b>                                                                    |  | <b>Time:</b><br><b>State:</b> CA<br><b>Photo end file#:</b> |  |
| Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Do normal circumstances exist on the site?<br><br>Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Is the site significantly disturbed?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <b>Location Details:</b><br>2A-1 Downstream end of 2A<br><br><b>Projection:</b> NAD 83 <b>Datum:</b><br><b>Coordinates:</b> 33.631264, -117.881803 |  |                                                             |  |
| <b>Potential anthropogenic influences on the channel system:</b><br>Urban irrigation runoff/stormwater outfalls, exotic vegetation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                    |  |                                                             |  |
| <b>Brief site description:</b><br>Site is located in an canyon with a broad active floodplain dominated by a monoculture of Brazilian pepper tree.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                    |  |                                                             |  |
| <b>Checklist of resources (if available):</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Aerial photography<br/>           Dates: 1994-2016<br/> <input checked="" type="checkbox"/> Topographic maps<br/> <input type="checkbox"/> Geologic maps<br/> <input checked="" type="checkbox"/> Vegetation maps<br/> <input checked="" type="checkbox"/> Soils maps<br/> <input type="checkbox"/> Rainfall/precipitation maps<br/> <input checked="" type="checkbox"/> Existing delineation(s) for site<br/> <input checked="" type="checkbox"/> Global positioning system (GPS)<br/> <input checked="" type="checkbox"/> Other studies         </div> <div style="width: 50%;"> <input type="checkbox"/> Stream gage data<br/>           Gage number:<br/>           Period of record:<br/> <input type="checkbox"/> History of recent effective discharges<br/> <input type="checkbox"/> Results of flood frequency analysis<br/> <input type="checkbox"/> Most recent shift-adjusted rating<br/> <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </div> </div>                                                                                                                                                                                                      |  |                                                                                                                                                    |  |                                                             |  |
| <b>Hydrogeomorphic Floodplain Units</b><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                    |  |                                                             |  |
| <b>Procedure for identifying and characterizing the floodplain units to assist in identifying the OHW M:</b><br><ol style="list-style-type: none"> <li>1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.</li> <li>2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.           <ol style="list-style-type: none"> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> </ol> </li> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OHW M and record the indicators. Record the OHW M position via:           <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <input checked="" type="checkbox"/> Mapping on aerial photograph<br/> <input type="checkbox"/> Digitized on computer           </div> <div> <input type="checkbox"/> GPS<br/> <input type="checkbox"/> Other:           </div> </div> </li> </ol> |  |                                                                                                                                                    |  |                                                             |  |

**Project ID:**

**Cross section ID:** 2A-1

**Date:** 3/26/2018

**Time:**

**Cross section drawing:**

Low flow  
channel  
(12')

Active Floodplain (175')

Low terrace

**OHWM**

**GPS point:** \_\_\_\_\_

**Indicators:**

- ☐ Change in average sediment texture  
☐ Change in vegetation species  
☐ Change in vegetation cover

- ☒ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☒ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam

Total veg cover: 0 % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

- ☒ NA ☐ Mid (herbaceous, shrubs, saplings)  
☐ Early (herbaceous & seedlings) ☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☒ Ripples  
☐ Drift and/or debris  
☒ Presence of bed and bank  
☐ Benches

- ☐ Soil development  
☒ Surface relief  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

**Project ID:**

**Cross section ID:** 2A-1

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☒ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam and sandy layers

Total veg cover: 85 % Tree: 90 % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☒ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☒ Drift and/or debris

☐ Presence of bed and bank

☒ Benches

☐ Soil development

☒ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☒ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam

Total veg cover: 85 % Tree: 85 % Shrub: 25 % Herb: 10 %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☒ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☒ Benches

☐ Soil development

☐ Surface relief

☒ Other: Elevation/topographical position

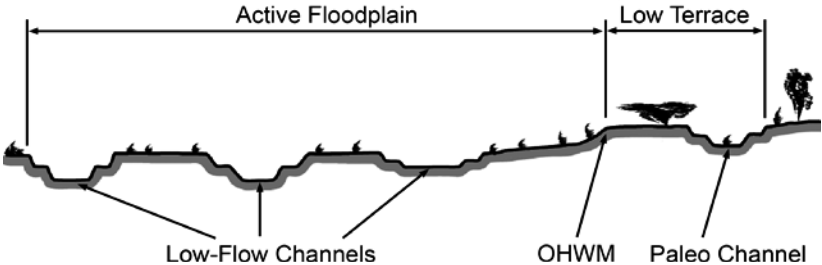
☒ Other: Accumulation of understory debris

☐ Other: \_\_\_\_\_

**Comments:**



## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                          |  |                                                             |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|--|
| <b>Project:</b> Big Canyon Phase 2A<br><b>Project Number:</b><br><b>Stream:</b> Big Canyon Creek<br><b>Investigator(s):</b> Julie Stout, Tommy Molioo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <b>Date:</b> 3/26/2018<br><b>Town:</b> Newport Bay<br><b>Photo begin file#:</b>                                                                          |  | <b>Time:</b><br><b>State:</b> CA<br><b>Photo end file#:</b> |  |
| Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Do normal circumstances exist on the site?<br><br>Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Is the site significantly disturbed?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <b>Location Details:</b><br>2A-2 downstream of channel fork<br><br><b>Projection:</b> NAD 83 <b>Datum:</b><br><b>Coordinates:</b> 33.631136, -117.880844 |  |                                                             |  |
| <b>Potential anthropogenic influences on the channel system:</b><br>Urban irrigation runoff/storm drain outfalls, exotic vegetation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                          |  |                                                             |  |
| <b>Brief site description:</b><br>Site is located in an canyon with a broad active floodplain dominated by a monoculture of Brazilian pepper tree.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                          |  |                                                             |  |
| <b>Checklist of resources (if available):</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Aerial photography<br/>           Dates: 1994-2016<br/> <input checked="" type="checkbox"/> Topographic maps<br/> <input type="checkbox"/> Geologic maps<br/> <input checked="" type="checkbox"/> Vegetation maps<br/> <input checked="" type="checkbox"/> Soils maps<br/> <input type="checkbox"/> Rainfall/precipitation maps<br/> <input checked="" type="checkbox"/> Existing delineation(s) for site<br/> <input checked="" type="checkbox"/> Global positioning system (GPS)<br/> <input checked="" type="checkbox"/> Other studies         </div> <div style="width: 50%;"> <input type="checkbox"/> Stream gage data<br/>           Gage number:<br/>           Period of record:<br/> <input type="checkbox"/> History of recent effective discharges<br/> <input type="checkbox"/> Results of flood frequency analysis<br/> <input type="checkbox"/> Most recent shift-adjusted rating<br/> <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </div> </div>                                                                                                                                                                                                   |  |                                                                                                                                                          |  |                                                             |  |
| <b>Hydrogeomorphic Floodplain Units</b><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                          |  |                                                             |  |
| <b>Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:</b><br><ol style="list-style-type: none"> <li>1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.</li> <li>2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.           <ol style="list-style-type: none"> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> </ol> </li> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OHWM and record the indicators. Record the OHWM position via:           <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <input checked="" type="checkbox"/> Mapping on aerial photograph<br/> <input type="checkbox"/> Digitized on computer           </div> <div> <input type="checkbox"/> GPS<br/> <input type="checkbox"/> Other:           </div> </div> </li> </ol> |  |                                                                                                                                                          |  |                                                             |  |

**Project ID:**

**Cross section ID:** 2A-1

**Date:** 3/26/2018

**Time:**

**Cross section drawing:**

Low flow  
channel  
(24')

Active Floodplain (325')

Low terrace

**OHWM**

**GPS point:** \_\_\_\_\_

**Indicators:**

- ☐ Change in average sediment texture  
☐ Change in vegetation species  
☐ Change in vegetation cover

- ☒ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☒ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam

Total veg cover: 0 % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

- ☒ NA  
☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)  
☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☒ Ripples  
☐ Drift and/or debris  
☒ Presence of bed and bank  
☐ Benches

- ☐ Soil development  
☒ Surface relief  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

**Project ID:**

**Cross section ID:** 2A-1

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☒ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam and sandy layers

Total veg cover: 85 % Tree: 90 % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☒ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☒ Drift and/or debris

☐ Presence of bed and bank

☒ Benches

☐ Soil development

☒ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☒ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam

Total veg cover: 85 % Tree: 85 % Shrub: 25 % Herb: 10 %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☒ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☒ Benches

☐ Soil development

☐ Surface relief

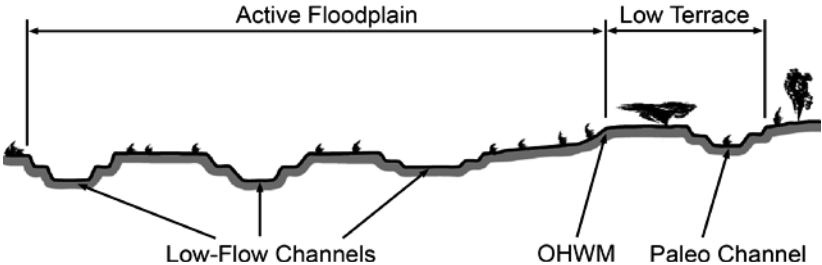
☒ Other: Elevation/topographical position

☒ Other: Accumulation of understory debris

☐ Other: \_\_\_\_\_

**Comments:**

## Arid West Ephemeral and Intermittent Streams OHWM Datasheet

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                |  |                                                             |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|--|
| <b>Project:</b> Big Canyon Phase 2A<br><b>Project Number:</b><br><b>Stream:</b> Big Canyon Creek<br><b>Investigator(s):</b> Julie Stout, Tommy Molioo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <b>Date:</b> 3/26/2018<br><b>Town:</b> Newport Bay<br><b>Photo begin file#:</b>                                                                |  | <b>Time:</b><br><b>State:</b> CA<br><b>Photo end file#:</b> |  |
| Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Do normal circumstances exist on the site?<br><br>Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Is the site significantly disturbed?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | <b>Location Details:</b><br>2A-3 upstream of fork<br><br><b>Projection:</b> NAD 83 <b>Datum:</b><br><b>Coordinates:</b> 33.630868, -117.880617 |  |                                                             |  |
| <b>Potential anthropogenic influences on the channel system:</b><br>Urban irrigation runoff/storm drain outfalls, exotic vegetation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                |  |                                                             |  |
| <b>Brief site description:</b><br>Site is located in an canyon with a broad active floodplain dominated by a monoculture of Brazilian pepper tree.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                                |  |                                                             |  |
| <b>Checklist of resources (if available):</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Aerial photography<br/>               Dates: 1994-2016<br/> <input checked="" type="checkbox"/> Topographic maps<br/> <input type="checkbox"/> Geologic maps<br/> <input checked="" type="checkbox"/> Vegetation maps<br/> <input checked="" type="checkbox"/> Soils maps<br/> <input type="checkbox"/> Rainfall/precipitation maps<br/> <input checked="" type="checkbox"/> Existing delineation(s) for site<br/> <input checked="" type="checkbox"/> Global positioning system (GPS)<br/> <input checked="" type="checkbox"/> Other studies         </div> <div style="width: 50%;"> <input type="checkbox"/> Stream gage data<br/>               Gage number:<br/>               Period of record:<br/> <input type="checkbox"/> History of recent effective discharges<br/> <input type="checkbox"/> Results of flood frequency analysis<br/> <input type="checkbox"/> Most recent shift-adjusted rating<br/> <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </div> </div>                                                                                                                                                                                |  |                                                                                                                                                |  |                                                             |  |
| <b>Hydrogeomorphic Floodplain Units</b><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                |  |                                                             |  |
| <b>Procedure for identifying and characterizing the floodplain units to assist in identifying the OHW:</b> <ol style="list-style-type: none"> <li>1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.</li> <li>2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.           <ol style="list-style-type: none"> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> </ol> </li> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OHW and record the indicators. Record the OHW position via:           <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div> <input checked="" type="checkbox"/> Mapping on aerial photograph<br/> <input type="checkbox"/> Digitized on computer           </div> <div> <input type="checkbox"/> GPS<br/> <input type="checkbox"/> Other:           </div> </div> </li> </ol> |  |                                                                                                                                                |  |                                                             |  |

**Project ID:**

**Cross section ID:** 2A-3

**Date:** 3/26/2018

**Time:**

**Cross section drawing:**

Low flow  
channel  
(5')

Low flow  
channel 10'

Active Floodplain (350')

Low terrace

**OHW**

**GPS point:** \_\_\_\_\_

**Indicators:**

- ☐ Change in average sediment texture  
☐ Change in vegetation species  
☐ Change in vegetation cover

- ☒ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☒ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam

Total veg cover: 0 % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

- ☒ NA  
☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)  
☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☒ Ripples  
☐ Drift and/or debris  
☒ Presence of bed and bank  
☐ Benches

- ☐ Soil development  
☒ Surface relief  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

**Project ID:**

**Cross section ID:** 2A-1

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☒ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam and sandy layers

Total veg cover: 85 % Tree: 90 % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☒ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☒ Drift and/or debris

☐ Presence of bed and bank

☒ Benches

☐ Soil development

☒ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☒ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam

Total veg cover: 85 % Tree: 85 % Shrub: 25 % Herb: 10 %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☒ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☒ Benches

☐ Soil development

☐ Surface relief

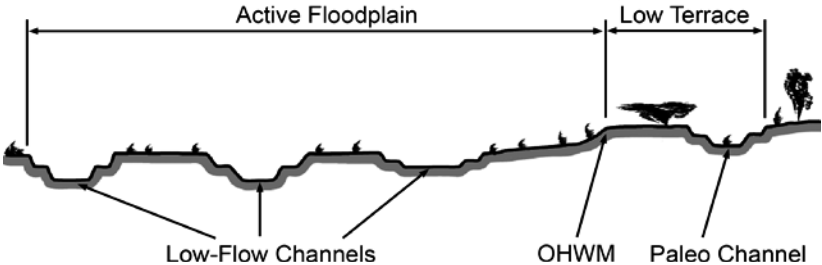
☒ Other: Elevation/topographical position

☒ Other: Accumulation of understory debris

☐ Other: \_\_\_\_\_

**Comments:**

## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                |  |                                                             |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|--|
| <b>Project:</b> Big Canyon Phase 2A<br><b>Project Number:</b><br><b>Stream:</b> Big Canyon Creek<br><b>Investigator(s):</b> Julie Stout, Tommy Molioo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <b>Date:</b> 3/26/2018<br><b>Town:</b> Newport Bay<br><b>Photo begin file#:</b>                                                                |  | <b>Time:</b><br><b>State:</b> CA<br><b>Photo end file#:</b> |  |
| Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Do normal circumstances exist on the site?<br><br>Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Is the site significantly disturbed?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <b>Location Details:</b><br>2A-4 upstream of fork<br><br><b>Projection:</b> NAD 83 <b>Datum:</b><br><b>Coordinates:</b> 33.629108, -117.879756 |  |                                                             |  |
| <b>Potential anthropogenic influences on the channel system:</b><br>Urban irrigation runoff/storm drain outfalls, exotic vegetation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                |  |                                                             |  |
| <b>Brief site description:</b><br>Site is located in an canyon with a broad active floodplain dominated by a monoculture of Brazilian pepper tree.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                |  |                                                             |  |
| <b>Checklist of resources (if available):</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Aerial photography<br/>           Dates: 1994-2016<br/> <input checked="" type="checkbox"/> Topographic maps<br/> <input type="checkbox"/> Geologic maps<br/> <input checked="" type="checkbox"/> Vegetation maps<br/> <input checked="" type="checkbox"/> Soils maps<br/> <input type="checkbox"/> Rainfall/precipitation maps<br/> <input checked="" type="checkbox"/> Existing delineation(s) for site<br/> <input checked="" type="checkbox"/> Global positioning system (GPS)<br/> <input checked="" type="checkbox"/> Other studies         </div> <div style="width: 50%;"> <input type="checkbox"/> Stream gage data<br/>           Gage number:<br/>           Period of record:<br/> <input type="checkbox"/> History of recent effective discharges<br/> <input type="checkbox"/> Results of flood frequency analysis<br/> <input type="checkbox"/> Most recent shift-adjusted rating<br/> <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </div> </div>                                                                                                                                                                                                      |  |                                                                                                                                                |  |                                                             |  |
| <b>Hydrogeomorphic Floodplain Units</b><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                |  |                                                             |  |
| <b>Procedure for identifying and characterizing the floodplain units to assist in identifying the OHW M:</b><br><ol style="list-style-type: none"> <li>1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.</li> <li>2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.           <ol style="list-style-type: none"> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> </ol> </li> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OHW M and record the indicators. Record the OHW M position via:           <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <input checked="" type="checkbox"/> Mapping on aerial photograph<br/> <input type="checkbox"/> Digitized on computer           </div> <div> <input type="checkbox"/> GPS<br/> <input type="checkbox"/> Other:           </div> </div> </li> </ol> |  |                                                                                                                                                |  |                                                             |  |

**Project ID:**

**Cross section ID:** 2A-3

**Date:** 3/26/2018

**Time:**

**Cross section drawing:**

Minor side channels

Low  
flow  
channel  
10'

Low flow  
channel 10'

Active Floodplain (300')

**OHW**

**GPS point:** \_\_\_\_\_

**Indicators:**

- ☐ Change in average sediment texture  
☐ Change in vegetation species  
☐ Change in vegetation cover

- ☒ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:** ☒ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam

Total veg cover: 0 % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

- ☒ NA ☐ Mid (herbaceous, shrubs, saplings)  
☐ Early (herbaceous & seedlings) ☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks ☐ Soil development  
☒ Ripples ☒ Surface relief  
☐ Drift and/or debris ☐ Other: \_\_\_\_\_  
☒ Presence of bed and bank ☐ Other: \_\_\_\_\_  
☐ Benches ☐ Other: \_\_\_\_\_

**Comments:**



**Project ID:**

**Cross section ID:** 2A-1

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☒ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam and sandy layers

Total veg cover: 85 % Tree: 90 % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☒ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☒ Drift and/or debris

☐ Presence of bed and bank

☒ Benches

☐ Soil development

☒ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☒ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: clay loam

Total veg cover: 85 % Tree: 85 % Shrub: 25 % Herb: 10 %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☒ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☒ Benches

☐ Soil development

☐ Surface relief

☒ Other: Elevation/topographical position

☒ Other: Accumulation of understory debris

☐ Other: \_\_\_\_\_

**Comments:**

## **Appendix D**

---

### **Wetland Datasheets**

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Big Canyon Phase 2A City/County: Newport Beach/Orange Sampling Date: 3/26/2018  
 Applicant/Owner: City of Newport Beach State: CA Sampling Point: UPL 2A-1  
 Investigator(s): Julie Stout, Tommy Molioo Section, Township, Range: Township 6 South, Range 10 West, Section 24  
 Landform (hillslope, terrace, etc.): flood terrace Local relief (concave, convex, none): convex Slope (%): 1  
 Subregion (LRR): C Lat: 33.631251 Long: -117.881831 Datum: NAD 83  
 Soil Map Unit Name: Tidal Flats NWI classification: PSSC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation X Soil X or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes x No       
 Are Vegetation      Soil X or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                                                                                  |                             |                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------|
| Hydrophytic Vegetation Present?                                                                                                                                                  | Yes <u>x</u> No <u>    </u> | Is the Sampled Area<br>within a Wetland? Yes <u>    </u> No <u>x</u> |
| Hydric Soil Present?                                                                                                                                                             | Yes <u>    </u> No <u>x</u> |                                                                      |
| Wetland Hydrology Present?                                                                                                                                                       | Yes <u>    </u> No <u>x</u> |                                                                      |
| Remarks: Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content and vegetation is predominantly non-native Brazilian peppertree. |                             |                                                                      |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: <u>30' R</u> )          | Absolute % Cover                 | Dominant Species? | Indicator Status | Dominance Test worksheet:<br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>1</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (C)                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------|----------------------------------|-------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. <u>Schinus terebinthifolia</u>                | <u>85</u>                        | <u>Y</u>          | <u>FAC</u>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      | Prevalence Index worksheet:<br>Total % Cover of: <u>    </u> Multiply by: <u>    </u><br>OBL species <u>    </u> x 1 = <u>    </u><br>FACW species <u>    </u> x 2 = <u>    </u><br>FAC species <u>85</u> x 3 = <u>255</u><br>FACU species <u>    </u> x 4 = <u>    </u><br>UPL species <u>    </u> x 5 = <u>    </u><br>Column Totals: <u>85</u> (A) <u>255</u> (B)<br><br>Prevalence Index = B/A = <u>3</u>                                                                                                                                                             |
| 3. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <u>85</u> = Total Cover                          |                                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sapling/Shrub Stratum (Plot size: <u>30' R</u> ) |                                  |                   |                  | Hydrophytic Vegetation Indicators:<br><u>    </u> 1- Rapid Test For Hydrophytic Vegetation<br><u>    </u> 2- Dominance Test is >50%<br><u>x</u> 3- Prevalence Index is ≤3.0 <sup>1</sup><br><u>    </u> 4- Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><u>    </u> 5- Wetland Non-Vascular Plants <sup>1</sup><br><u>    </u> 6- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic |
| 1. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <u>0</u> = Total Cover                           |                                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Herb Stratum (Plot size: <u>5' R</u> )           |                                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 7. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 8. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 9. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 10. <u>    </u>                                  | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 11. <u>    </u>                                  | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <u>0</u> = Total Cover                           |                                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Woody Vine Stratum (Plot size: <u>30' R</u> )    |                                  |                   |                  | Hydrophytic Vegetation Present? Yes <u>x</u> No <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2. <u>    </u>                                   | <u>    </u>                      | <u>    </u>       | <u>    </u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <u>    </u> = Total Cover                        |                                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| % Bare Ground in Herb Stratum <u>25</u>          | % Cover of Biotic Crust <u>0</u> |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Remarks:                                         |                                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## SOIL

Sampling Point: UPL 2A-1

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |               |     |                |   |                   |                  |           |         |
|---------------------------------------------------------------------------------------------------------------------|---------------|-----|----------------|---|-------------------|------------------|-----------|---------|
| Depth                                                                                                               | Matrix        |     | Redox Features |   |                   |                  | Texture   | Remarks |
| (inches)                                                                                                            | Color (moist) | %   | Color (moist)  | % | Type <sup>1</sup> | Loc <sup>2</sup> |           |         |
| 0-5                                                                                                                 | 7.5YR 2.5/1   | 100 |                |   |                   |                  | clay loam |         |
| 5-7                                                                                                                 | 10YR 5/3      | 95  | 7.5YR 4/6      | 5 | C                 | M                | sand      |         |
| 7-12+                                                                                                               | 7.5YR 2.5/1   | 100 |                |   |                   |                  | clay loam |         |
|                                                                                                                     |               |     |                |   |                   |                  |           |         |
|                                                                                                                     |               |     |                |   |                   |                  |           |         |
|                                                                                                                     |               |     |                |   |                   |                  |           |         |
|                                                                                                                     |               |     |                |   |                   |                  |           |         |
|                                                                                                                     |               |     |                |   |                   |                  |           |         |
|                                                                                                                     |               |     |                |   |                   |                  |           |         |
|                                                                                                                     |               |     |                |   |                   |                  |           |         |
|                                                                                                                     |               |     |                |   |                   |                  |           |         |

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Indicators for Problematic Hydric Soils:                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Histosol (A1)<br><input type="checkbox"/> Histic Epipedon (A2)<br><input type="checkbox"/> Black Histic (A3)<br><input type="checkbox"/> Hydrogen Sulfide (A4)<br><input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )<br><input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )<br><input type="checkbox"/> Depleted Below Dark Surface (A11)<br><input type="checkbox"/> Thick Dark Surface (A12)<br><input type="checkbox"/> Sandy Mucky Mineral (S1)<br><input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5)<br><input type="checkbox"/> Stripped Matrix (S6)<br><input type="checkbox"/> Loamy Mucky Mineral (F1)<br><input type="checkbox"/> Loamy Gleyed Matrix (F2)<br><input type="checkbox"/> Depleted Matrix (F3)<br><input type="checkbox"/> Redox Dark Surface (F6)<br><input type="checkbox"/> Depleted Dark Surface (F7)<br><input type="checkbox"/> Redox Depressions (F8)<br><input type="checkbox"/> Vernal Pools (F9) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR C</b> )<br><input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR B</b> )<br><input type="checkbox"/> Reduced Vertic (F18)<br><input type="checkbox"/> Red Parent Material (TF2)<br><input type="checkbox"/> Other (Explain in Remarks)                                                                                                                                                                               |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

|                                                                                |                                                                                                 |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Restrictive Layer (if present):</b><br>Type: _____<br>Depth (inches): _____ | <b>Hydric Soil Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Remarks: _____                                                                 |                                                                                                 |

## HYDROLOGY

| Wetland Hydrology Indicators:                                          |                                                                        |                                                                     |  |
|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------|--|
| Primary Indicators (minimum of one required; check all that apply)     |                                                                        | Secondary Indicators (2 or more required)                           |  |
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              | <input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )       |  |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            | <input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> ) |  |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   | <input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )    |  |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input checked="" type="checkbox"/> Drainage Patterns (B10)         |  |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2)                |  |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Crayfish Burrows (C8)                      |  |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)  |  |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Shallow Aquitard (D3)                      |  |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    | <input type="checkbox"/> FAC-Neutral Test (D5)                      |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Field Observations:</b><br>Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u><br>Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u><br>Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u><br>(includes capillary fringe) | <b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:                                                                                                                                                                                                                                                                                                                            |                                                                                                       |
| Remarks: _____                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                       |

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Big Canyon Phase 2A City/County: Newport Beach/Orange Sampling Date: 3/26/2018  
 Applicant/Owner: City of Newport Beach State: CA Sampling Point: WW 2A-1  
 Investigator(s): Julie Stout, Tommy Moloo Section, Township, Range: Township 6 South, Range 10 West, Section 24  
 Landform (hillslope, terrace, etc.): flood terrace Local relief (concave, convex, none): convex Slope (%): 1  
 Subregion (LRR): C Lat: 33.631087 Long: -117.880853 Datum: NAD 83  
 Soil Map Unit Name: Tidal Flats NWI classification: PSSC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation X Soil X or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes      No       
 Are Vegetation      Soil X or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                                                                                  |                             |                                                  |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------|-----------------------------|
| Hydrophytic Vegetation Present?                                                                                                                                                  | Yes <u>x</u> No <u>    </u> | <b>Is the Sampled Area<br/>within a Wetland?</b> | Yes <u>x</u> No <u>    </u> |
| Hydric Soil Present?                                                                                                                                                             | Yes <u>x</u> No <u>    </u> |                                                  |                             |
| Wetland Hydrology Present?                                                                                                                                                       | Yes <u>x</u> No <u>    </u> |                                                  |                             |
| Remarks: Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content and vegetation is predominantly non-native Brazilian peppertree. |                             |                                                  |                             |

## VEGETATION – Use scientific names of plants.

| <u>Tree Stratum</u> (Plot size: <u>30' R</u> )          | Absolute<br>% Cover              | Dominant<br>Species? | Indicator<br>Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species<br>That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Number of Dominant Species<br>Across All Strata: <u>1</u> (B)<br><br>Percent of Dominant Species That<br>Are OBL, FACW, or FAC <u>100</u> (C)                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------|----------------------------------|----------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. <u>Schinus terebinthifolia</u>                       | <u>85</u>                        | <u>Y</u>             | <u>FAC</u>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                         | <u>85</u> = Total Cover          |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u> ) |                                  |                      |                     | <b>Prevalence Index worksheet:</b><br>Total % Cover of: <u>    </u> Multiply by:<br>OBL species <u>    </u> x 1= <u>    </u><br>FACW species <u>    </u> x 2= <u>    </u><br>FAC species <u>85</u> x 3= <u>255</u><br>FACU species <u>    </u> x 4= <u>    </u><br>UPL species <u>    </u> x 5= <u>    </u><br>Column Totals: <u>85</u> (A) <u>255</u> (B)<br><br>Prevalence Index = B/A = <u>3</u>                                                                                                                                                                              |
| 1. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                         | <u>0</u> = Total Cover           |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <u>Herb Stratum</u> (Plot size: <u>5' R</u> )           |                                  |                      |                     | <b>Hydrophytic Vegetation Indicators:</b><br><u>    </u> 1- Rapid Test For Hydrophytic Vegetation<br><u>    </u> 2- Dominance Test is >50%<br><u>x</u> 3- Prevalence Index is ≤3.0 <sup>1</sup><br><u>    </u> 4- Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><u>    </u> 5- Wetland Non-Vascular Plants <sup>1</sup><br><u>    </u> 6- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic |
| 1. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 7. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 9. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 10. <u>    </u>                                         |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 11. <u>    </u>                                         |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                         | <u>0</u> = Total Cover           |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <u>Woody Vine Stratum</u> (Plot size: <u>30' R</u> )    |                                  |                      |                     | <b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. <u>    </u>                                          |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                         | <u>    </u> = Total Cover        |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| % Bare Ground in Herb Stratum <u>25</u>                 | % Cover of Biotic Crust <u>0</u> |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Remarks:                                                |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |               |     |                |    |                   |                  |            |         |
|---------------------------------------------------------------------------------------------------------------------|---------------|-----|----------------|----|-------------------|------------------|------------|---------|
| Depth<br>(inches)                                                                                                   | Matrix        |     | Redox Features |    |                   |                  | Texture    | Remarks |
|                                                                                                                     | Color (moist) | %   | Color (moist)  | %  | Type <sup>1</sup> | Loc <sup>2</sup> |            |         |
| 0-1/4                                                                                                               | 10YR2/1       | 100 |                |    |                   |                  | muck       |         |
| 1/4-3/8                                                                                                             | 7.5YR3/4      | 100 |                |    |                   |                  | silty clay |         |
| 3/8-2                                                                                                               | 2.5Y4/1       | 95  | 10YR3/6        | 5  |                   |                  | silty clay |         |
| 2-5                                                                                                                 | 10YR4/2       | 90  | 10YR4/6        | 10 |                   |                  | sandy clay |         |
| 5-12+                                                                                                               | 2.5Y4/1       | 80  | 10YR3/6        | 20 |                   |                  | sandy clay |         |
|                                                                                                                     |               |     |                |    |                   |                  |            |         |
|                                                                                                                     |               |     |                |    |                   |                  |            |         |
|                                                                                                                     |               |     |                |    |                   |                  |            |         |

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) |                                                          | Indicators for Problematic Hydric Soils:                  |
|---------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Redox (S5)                | <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR C</b> )  |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input type="checkbox"/> Stripped Matrix (S6)            | <input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR B</b> ) |
| <input type="checkbox"/> Black Histic (A3)                                | <input type="checkbox"/> Loamy Mucky Mineral (F1)        | <input type="checkbox"/> Reduced Vertic (F18)             |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        | <input type="checkbox"/> Red Parent Material (TF2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )          | <input checked="" type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Other (Explain in Remarks)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )                  | <input type="checkbox"/> Redox Dark Surface (F6)         |                                                           |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)                | <input type="checkbox"/> Depleted Dark Surface (F7)      |                                                           |
| <input type="checkbox"/> Thick Dark Surface (A12)                         | <input type="checkbox"/> Redox Depressions (F8)          |                                                           |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                         | <input type="checkbox"/> Vernal Pools (F9)               |                                                           |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                         |                                                          |                                                           |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

|                                                                                |                                                                                                 |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Restrictive Layer (if present):</b><br>Type: _____<br>Depth (inches): _____ | <b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|

Remarks: \_\_\_\_\_

| HYDROLOGY                                                              |                                                                        |                                                                             |  |
|------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------|--|
| <b>Wetland Hydrology Indicators:</b>                                   |                                                                        |                                                                             |  |
| Primary Indicators (minimum of one required; check all that apply)     |                                                                        | Secondary Indicators (2 or more required)                                   |  |
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              | <input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )               |  |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            | <input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )         |  |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   | <input checked="" type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> ) |  |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input checked="" type="checkbox"/> Drainage Patterns (B10)                 |  |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2)                        |  |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Crayfish Burrows (C8)                              |  |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)          |  |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Shallow Aquitard (D3)                              |  |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input checked="" type="checkbox"/> Other (Explain in Remarks)         | <input type="checkbox"/> FAC-Neutral Test (D5)                              |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Field Observations:</b><br>Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u><br>Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u><br>Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u><br>(includes capillary fringe) | <b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: \_\_\_\_\_

Remarks: \_\_\_\_\_

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Big Canyon Phase 2A City/County: Newport Beach/Orange Sampling Date: 3/26/2018  
 Applicant/Owner: City of Newport Beach State: CA Sampling Point: WW 2A-2  
 Investigator(s): Julie Stout, Tommy Molioo Section, Township, Range: Township 6 South, Range 10 West, Section 24  
 Landform (hillslope, terrace, etc.): floodplain depression Local relief (concave, convex, none): concave Slope (%): 1  
 Subregion (LRR): C Lat: 33.630184 Long: -117.879672 Datum: NAD 83  
 Soil Map Unit Name: Cieneba sandy loam, 30 to 75 percent slopes, eroded NWI classification: PSSC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation X Soil X or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes      No       
 Are Vegetation      Soil X or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                                                                                  |                             |                                                  |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------|-----------------------------|
| Hydrophytic Vegetation Present?                                                                                                                                                  | Yes <u>x</u> No <u>    </u> | <b>Is the Sampled Area<br/>within a Wetland?</b> | Yes <u>x</u> No <u>    </u> |
| Hydric Soil Present?                                                                                                                                                             | Yes <u>x</u> No <u>    </u> |                                                  |                             |
| Wetland Hydrology Present?                                                                                                                                                       | Yes <u>x</u> No <u>    </u> |                                                  |                             |
| Remarks: Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content and vegetation is predominantly non-native Brazilian peppertree. |                             |                                                  |                             |

## VEGETATION – Use scientific names of plants.

| <u>Tree Stratum</u> (Plot size: <u>30' R</u> )                          | Absolute<br>% Cover | Dominant<br>Species? | Indicator<br>Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species<br>That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Number of Dominant Species<br>Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That<br>Are OBL, FACW, or FAC <u>100</u> (C)                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------|---------------------|----------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. <u>Schinus terebinthifolia</u>                                       | <u>50</u>           | <u>Y</u>             | <u>FAC</u>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. <u>Salix lasiolepis</u>                                              | <u>50</u>           | <u>Y</u>             | <u>FACW</u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>100</u> = Total Cover                                                |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u> )                 |                     |                      |                     | <b>Prevalence Index worksheet:</b><br>Total % Cover of: <u>    </u> Multiply by: <u>    </u><br>OBL species <u>    </u> x 1= <u>    </u><br>FACW species <u>50</u> x 2= <u>100</u><br>FAC species <u>55</u> x 3= <u>165</u><br>FACU species <u>    </u> x 4= <u>    </u><br>UPL species <u>    </u> x 5= <u>    </u><br>Column Totals: <u>105</u> (A) <u>265</u> (B)<br><br>Prevalence Index = B/A = <u>2.5</u>                                                                                                                                                                     |
| 1. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 5. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>    </u> = Total Cover                                               |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>Herb Stratum</u> (Plot size: <u>5' R</u> )                           |                     |                      |                     | <b>Hydrophytic Vegetation Indicators:</b><br><u>    </u> 1- Rapid Test For Hydrophytic Vegetation<br><u>x</u> 2- Dominance Test is >50%<br><u>x</u> 3- Prevalence Index is ≤3.0 <sup>1</sup><br><u>    </u> 4- Morphological Adaptations <sup>1</sup> (Provide supporting<br>data in Remarks or on a separate sheet)<br><u>    </u> 5- Wetland Non-Vascular Plants <sup>1</sup><br><u>    </u> 6- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be<br>present, unless disturbed or problematic |
| 1. <u>Urtica dioica</u>                                                 | <u>5</u>            | <u>Y</u>             | <u>FAC</u>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. <u>Apium graveolens</u>                                              | <u>1</u>            | <u>N</u>             | <u>NL</u>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 5. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 7. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 8. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 10. <u>    </u>                                                         | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 11. <u>    </u>                                                         | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>6</u> = Total Cover                                                  |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>Woody Vine Stratum</u> (Plot size: <u>30' R</u> )                    |                     |                      |                     | <b>Hydrophytic<br/>Vegetation<br/>Present?</b> Yes <u>x</u> No <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>    </u> = Total Cover                                               |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| % Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>0</u> |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Remarks:<br>leaf litter                                                 |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Sampling Point: WW 2A-2

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

|                                             |                                               |                                           |
|---------------------------------------------|-----------------------------------------------|-------------------------------------------|
| Surface Water (A1)                          | Salt Crust (B11)                              | Water Marks (B1) <b>(Riverine)</b>        |
| x High Water Table (A2)                     | Biotic Crust (B12)                            | Sediment Deposits (B2) <b>(Riverine)</b>  |
| Saturation (A3)                             | Aquatic Invertebrates (B13)                   | Drift Deposits (B3) <b>(Riverine)</b>     |
| Water Marks (B1) <b>(Nonriverine)</b>       | Hydrogen Sulfide Odor (C1)                    | Drainage Patterns (B10)                   |
| Sediment Deposits (B2) <b>(Nonriverine)</b> | Oxidized Rhizospheres along Living Roots (C3) | Dry-Season Water Table (C2)               |
| Drift Deposits (B3) <b>(Nonriverine)</b>    | Presence of Reduced Iron (C4)                 | Crayfish Burrows (C8)                     |
| Surface Soil Cracks (B6)                    | Recent Iron Reduction in Tilled Soils (C6)    | Saturation Visible on Aerial Imagery (C9) |
| Inundation Visible on Aerial Imagery (B7)   | Thin Muck Surface (C7)                        | Shallow Aquitard (D3)                     |
| Water-Stained Leaves (B9)                   | Other (Explain in Remarks)                    | FAC-Neutral Test (D5)                     |

**Field Observations:**

|                             |                   |                  |                           |                                                                 |
|-----------------------------|-------------------|------------------|---------------------------|-----------------------------------------------------------------|
| Surface Water Present?      | Yes <u>      </u> | No <u>      </u> | Depth (Inches): <u>NA</u> | <b>Wetland Hydrology Present?</b> Yes <u>x</u> No <u>      </u> |
| Water Table Present?        | Yes <u>x</u>      | No <u>      </u> | Depth (Inches): <u>5</u>  |                                                                 |
| Saturation Present?         | Yes <u>x</u>      | No <u>      </u> | Depth (Inches): <u>3</u>  |                                                                 |
| (includes capillary fringe) |                   |                  |                           |                                                                 |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Big Canyon Phase 2A City/County: Newport Beach/Orange Sampling Date: 3/26/2018  
 Applicant/Owner: City of Newport Beach State: CA Sampling Point: WW 2A-3  
 Investigator(s): Julie Stout, Tommy Moloo Section, Township, Range: Township 6 South, Range 10 West, Section 24  
 Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): \_\_\_\_\_ Slope (%): 1  
 Subregion (LRR): C Lat: 33.629752 Long: -117.879399 Datum: NAD 83  
 Soil Map Unit Name: Cieneba sandy loam, 30 to 75 percent slopes, eroded NWI classification: PSSC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation X Soil X or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes x No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_ Soil X or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                         |                       |                                                  |                       |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------|-----------------------|
| Hydrophytic Vegetation Present?                                                                                         | Yes <u>x</u> No _____ | <b>Is the Sampled Area<br/>within a Wetland?</b> | Yes <u>x</u> No _____ |
| Hydric Soil Present?                                                                                                    | Yes <u>x</u> No _____ |                                                  |                       |
| Wetland Hydrology Present?                                                                                              | Yes <u>x</u> No _____ |                                                  |                       |
| Remarks: <u>Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content.</u> |                       |                                                  |                       |

## VEGETATION – Use scientific names of plants.

| <u>Tree Stratum</u> (Plot size: <u>30' R</u> )                          | Absolute<br>% Cover | Dominant<br>Species? | Indicator<br>Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Number of Dominant Species Across All Strata: <u>1</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (C)                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------|---------------------|----------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4. _____                                                                | _____               | _____                | _____               | <b>Prevalence Index worksheet:</b><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1= _____<br>FACW species <u>85</u> x 2= <u>170</u><br>FAC species <u>5</u> x 3= <u>15</u><br>FACU species _____ x 4= _____<br>UPL species <u>15</u> x 5= <u>75</u><br>Column Totals: <u>105</u> (A) <u>260</u> (B)<br><br>Prevalence Index = B/A = <u>2.5</u>                                                                                                                                                                               |
| = Total Cover                                                           |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Sapling/Shrub Stratum</b> (Plot size: <u>30' R</u> )                 |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. _____                                                                | _____               | _____                | _____               | <b>Hydrophytic Vegetation Indicators:</b><br>_____ 1- Rapid Test For Hydrophytic Vegetation<br>x _____ 2- Dominance Test is >50%<br>x _____ 3- Prevalence Index is ≤3.0 <sup>1</sup><br>_____ 4- Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br>_____ 5- Wetland Non-Vascular Plants <sup>1</sup><br>_____ 6- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic |
| 3. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 5. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| = Total Cover                                                           |                     |                      |                     | <b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Herb Stratum</b> (Plot size: <u>5' R</u> )                           |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1. <u>Frankenia salina</u>                                              | <u>85</u>           | <u>Y</u>             | <u>FACW</u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. <u>Salicornia virginica</u>                                          | <u>1</u>            | <u>N</u>             | <u>NL</u>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. <u>Distichlis spicata</u>                                            | <u>5</u>            | <u>N</u>             | <u>FAC</u>          | <b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4. <u>Bromus diandrus</u>                                               | <u>15</u>           | <u>N</u>             | <u>UPL</u>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 5. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 7. _____                                                                | _____               | _____                | _____               | <b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 8. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 10. _____                                                               | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 11. _____                                                               | _____               | _____                | _____               | <b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 106 = Total Cover                                                       |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Woody Vine Stratum</b> (Plot size: <u>30' R</u> )                    |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1. _____                                                                | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. _____                                                                | _____               | _____                | _____               | <b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| = Total Cover                                                           |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| % Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>0</u> |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Remarks: _____                                                          |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## SOIL

Sampling Point: WW 2A-3

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)                                                                                                                                |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|-----------------------------------------------------|---|-------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|
| Depth<br>(inches)                                                                                                                                                                                                                                  | Matrix        |     | Redox Features                                      |   |                   |                                                                                                                          | Texture                                  | Remarks |
|                                                                                                                                                                                                                                                    | Color (moist) | %   | Color (moist)                                       | % | Type <sup>1</sup> | Loc <sup>2</sup>                                                                                                         |                                          |         |
| 0-12                                                                                                                                                                                                                                               | 2.5YR4/2      | 100 |                                                     |   |                   |                                                                                                                          | loamy sand                               |         |
|                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
|                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
|                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
|                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
|                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
|                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
|                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
|                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
|                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
|                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
|                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
| <sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.                                                                                                                                              |               |     |                                                     |   |                   | <sup>2</sup> Location: PL=Pore Lining, M=Matrix                                                                          |                                          |         |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)                                                                                                                                                                          |               |     |                                                     |   |                   |                                                                                                                          | Indicators for Problematic Hydric Soils: |         |
| <input type="checkbox"/> Histosol (A1)                                                                                                                                                                                                             |               |     | <input type="checkbox"/> Sandy Redox (S5)           |   |                   | <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR C</b> )                                                                 |                                          |         |
| <input type="checkbox"/> Histic Epipedon (A2)                                                                                                                                                                                                      |               |     | <input type="checkbox"/> Stripped Matrix (S6)       |   |                   | <input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR B</b> )                                                                |                                          |         |
| <input type="checkbox"/> Black Histic (A3)                                                                                                                                                                                                         |               |     | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |   |                   | <input type="checkbox"/> Reduced Vertic (F18)                                                                            |                                          |         |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                                                                                                                                                                                                     |               |     | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |   |                   | <input type="checkbox"/> Red Parent Material (TF2)                                                                       |                                          |         |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )                                                                                                                                                                                   |               |     | <input type="checkbox"/> Depleted Matrix (F3)       |   |                   | <input checked="" type="checkbox"/> Other (Explain in Remarks)                                                           |                                          |         |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )                                                                                                                                                                                           |               |     | <input type="checkbox"/> Redox Dark Surface (F6)    |   |                   |                                                                                                                          |                                          |         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)                                                                                                                                                                                         |               |     | <input type="checkbox"/> Depleted Dark Surface (F7) |   |                   |                                                                                                                          |                                          |         |
| <input type="checkbox"/> Thick Dark Surface (A12)                                                                                                                                                                                                  |               |     | <input type="checkbox"/> Redox Depressions (F8)     |   |                   |                                                                                                                          |                                          |         |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                                                                                                                                                                                                  |               |     | <input type="checkbox"/> Vernal Pools (F9)          |   |                   | <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic |                                          |         |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                                                                                                                                                                                                  |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
| Restrictive Layer (if present):                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
| Type: _____                                                                                                                                                                                                                                        |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
| Depth (inches): _____                                                                                                                                                                                                                              |               |     |                                                     |   |                   | Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____                                                    |                                          |         |
| Remarks:                                                                                                                                                                                                                                           |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |
| Soil samples taken in this area were found to have a pH of 8 which could inhibit formation of hydric soil indicators. Therefore, due to the prevalence of hydrophytic vegetation presence of hydrology indicators, soils are assumed to be hydric. |               |     |                                                     |   |                   |                                                                                                                          |                                          |         |

| HYDROLOGY                                                                                                  |                                                                        |                                                                                                       |  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| <b>Wetland Hydrology Indicators:</b>                                                                       |                                                                        |                                                                                                       |  |
| Primary Indicators (minimum of one required; check all that apply)                                         |                                                                        | Secondary Indicators (2 or more required)                                                             |  |
| <input type="checkbox"/> Surface Water (A1)                                                                | <input type="checkbox"/> Salt Crust (B11)                              | <input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )                                         |  |
| <input type="checkbox"/> High Water Table (A2)                                                             | <input type="checkbox"/> Biotic Crust (B12)                            | <input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )                                   |  |
| <input type="checkbox"/> Saturation (A3)                                                                   | <input type="checkbox"/> Aquatic Invertebrates (B13)                   | <input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )                                      |  |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )                                           | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input checked="" type="checkbox"/> Drainage Patterns (B10)                                           |  |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )                                     | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2)                                                  |  |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )                                        | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Crayfish Burrows (C8)                                                        |  |
| <input type="checkbox"/> Surface Soil Cracks (B6)                                                          | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)                                    |  |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)                                         | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Shallow Aquitard (D3)                                                        |  |
| <input type="checkbox"/> Water-Stained Leaves (B9)                                                         | <input type="checkbox"/> Other (Explain in Remarks)                    | <input checked="" type="checkbox"/> FAC-Neutral Test (D5)                                             |  |
| <b>Field Observations:</b>                                                                                 |                                                                        |                                                                                                       |  |
| Surface Water Present?                                                                                     | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>    | Depth (Inches):                                                                                       |  |
| Water Table Present?                                                                                       | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>    | Depth (Inches):                                                                                       |  |
| Saturation Present?                                                                                        | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>    | Depth (Inches):                                                                                       |  |
| (includes capillary fringe)                                                                                |                                                                        |                                                                                                       |  |
|                                                                                                            |                                                                        | <b>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b> |  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |                                                                        |                                                                                                       |  |
| Remarks:                                                                                                   |                                                                        |                                                                                                       |  |

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Big Canyon Phase 2A City/County: Newport Beach/Orange Sampling Date: 3/26/2018  
 Applicant/Owner: City of Newport Beach State: CA Sampling Point: WW 2A-4  
 Investigator(s): Julie Stout, Tommy Moloo Section, Township, Range: Township 6 South, Range 10 West, Section 24  
 Landform (hillslope, terrace, etc.): floodplain depression Local relief (concave, convex, none): concave Slope (%): 1  
 Subregion (LRR): C Lat: 33.62967 Long: -117.879417 Datum: NAD 83  
 Soil Map Unit Name: Tidal flats/Cieneba sandy loam, 30 to 75 percent slopes, eroded NWI classification: PSSC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation X Soil X or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes x No       
 Are Vegetation      Soil X or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                         |                             |                                                  |                             |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------|-----------------------------|
| Hydrophytic Vegetation Present?                                                                                         | Yes <u>x</u> No <u>    </u> | <b>Is the Sampled Area<br/>within a Wetland?</b> | Yes <u>x</u> No <u>    </u> |
| Hydric Soil Present?                                                                                                    | Yes <u>x</u> No <u>    </u> |                                                  |                             |
| Wetland Hydrology Present?                                                                                              | Yes <u>x</u> No <u>    </u> |                                                  |                             |
| Remarks: <u>Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content.</u> |                             |                                                  |                             |

## VEGETATION – Use scientific names of plants.

| <u>Tree Stratum</u> (Plot size: <u>30' R</u> )                          | Absolute<br>% Cover | Dominant<br>Species? | Indicator<br>Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species<br>That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Number of Dominant Species<br>Across All Strata: <u>1</u> (B)<br><br>Percent of Dominant Species That<br>Are OBL, FACW, or FAC <u>100</u> (C)                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------|---------------------|----------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>    </u> = Total Cover                                               |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u> )                 |                     |                      |                     | <b>Prevalence Index worksheet:</b><br>Total % Cover of: Multiply by:<br>OBL species <u>80</u> x 1= <u>80</u><br>FACW species <u>5</u> x 2= <u>10</u><br>FAC species <u>5</u> x 3= <u>15</u><br>FACU species <u>    </u> x 4= <u>    </u><br>UPL species <u>    </u> x 5= <u>    </u><br>Column Totals: <u>90</u> (A) <u>105</u> (B)<br><br>Prevalence Index = B/A = <u>1.2</u>                                                                                                                                                                                                      |
| 1. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 5. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>    </u> = Total Cover                                               |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>Herb Stratum</u> (Plot size: <u>5' R</u> )                           |                     |                      |                     | <b>Hydrophytic Vegetation Indicators:</b><br><u>    </u> 1- Rapid Test For Hydrophytic Vegetation<br><u>x</u> 2- Dominance Test is >50%<br><u>x</u> 3- Prevalence Index is ≤3.0 <sup>1</sup><br><u>    </u> 4- Morphological Adaptations <sup>1</sup> (Provide supporting<br>data in Remarks or on a separate sheet)<br><u>    </u> 5- Wetland Non-Vascular Plants <sup>1</sup><br><u>    </u> 6- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be<br>present, unless disturbed or problematic |
| 1. <u>Frankenia salina</u>                                              | <u>5</u>            | <u>N</u>             | <u>FACW</u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. <u>Urtica dioica</u>                                                 | <u>5</u>            | <u>N</u>             | <u>FAC</u>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. <u>Typha latifolia</u>                                               | <u>80</u>           | <u>Y</u>             | <u>OBL</u>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 5. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 7. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 8. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 10. <u>    </u>                                                         | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 11. <u>    </u>                                                         | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>90</u> = Total Cover                                                 |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>Woody Vine Stratum</u> (Plot size: <u>30' R</u> )                    |                     |                      |                     | <b>Hydrophytic<br/>Vegetation<br/>Present?</b> Yes <u>x</u> No <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. <u>    </u>                                                          | <u>    </u>         | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>    </u> = Total Cover                                               |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| % Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>0</u> |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Remarks:<br><u>leaf litter</u>                                          |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## SOIL

Sampling Point: WW 2A-4

| <b>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</b>                                                                                                                                     |               |     |                                                     |   |                   |                                                                                                                          |           |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|-----------------------------------------------------|---|-------------------|--------------------------------------------------------------------------------------------------------------------------|-----------|---------|
| Depth<br>(inches)                                                                                                                                                                                                                                              | Matrix        |     | Redox Features                                      |   |                   |                                                                                                                          | Texture   | Remarks |
|                                                                                                                                                                                                                                                                | Color (moist) | %   | Color (moist)                                       | % | Type <sup>1</sup> | Loc <sup>2</sup>                                                                                                         |           |         |
| 0-12                                                                                                                                                                                                                                                           | 10YR2/2       | 100 |                                                     |   |                   |                                                                                                                          | Clay loam |         |
|                                                                                                                                                                                                                                                                |               |     |                                                     |   |                   |                                                                                                                          |           |         |
|                                                                                                                                                                                                                                                                |               |     |                                                     |   |                   |                                                                                                                          |           |         |
|                                                                                                                                                                                                                                                                |               |     |                                                     |   |                   |                                                                                                                          |           |         |
|                                                                                                                                                                                                                                                                |               |     |                                                     |   |                   |                                                                                                                          |           |         |
|                                                                                                                                                                                                                                                                |               |     |                                                     |   |                   |                                                                                                                          |           |         |
|                                                                                                                                                                                                                                                                |               |     |                                                     |   |                   |                                                                                                                          |           |         |
|                                                                                                                                                                                                                                                                |               |     |                                                     |   |                   |                                                                                                                          |           |         |
|                                                                                                                                                                                                                                                                |               |     |                                                     |   |                   |                                                                                                                          |           |         |
|                                                                                                                                                                                                                                                                |               |     |                                                     |   |                   |                                                                                                                          |           |         |
| <sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix                                                                                                          |               |     |                                                     |   |                   |                                                                                                                          |           |         |
| <b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>                                                                                                                                                                               |               |     |                                                     |   |                   | <b>Indicators for Problematic Hydric Soils:</b>                                                                          |           |         |
| <input type="checkbox"/> Histosol (A1)                                                                                                                                                                                                                         |               |     | <input type="checkbox"/> Sandy Redox (S5)           |   |                   | <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR C</b> )                                                                 |           |         |
| <input type="checkbox"/> Histic Epipedon (A2)                                                                                                                                                                                                                  |               |     | <input type="checkbox"/> Stripped Matrix (S6)       |   |                   | <input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR B</b> )                                                                |           |         |
| <input type="checkbox"/> Black Histic (A3)                                                                                                                                                                                                                     |               |     | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |   |                   | <input type="checkbox"/> Reduced Vertic (F18)                                                                            |           |         |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                                                                                                                                                                                                                 |               |     | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |   |                   | <input type="checkbox"/> Red Parent Material (TF2)                                                                       |           |         |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )                                                                                                                                                                                               |               |     | <input type="checkbox"/> Depleted Matrix (F3)       |   |                   | <input checked="" type="checkbox"/> Other (Explain in Remarks)                                                           |           |         |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )                                                                                                                                                                                                       |               |     | <input type="checkbox"/> Redox Dark Surface (F6)    |   |                   |                                                                                                                          |           |         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)                                                                                                                                                                                                     |               |     | <input type="checkbox"/> Depleted Dark Surface (F7) |   |                   |                                                                                                                          |           |         |
| <input type="checkbox"/> Thick Dark Surface (A12)                                                                                                                                                                                                              |               |     | <input type="checkbox"/> Redox Depressions (F8)     |   |                   |                                                                                                                          |           |         |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                                                                                                                                                                                                              |               |     | <input type="checkbox"/> Vernal Pools (F9)          |   |                   | <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic |           |         |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                                                                                                                                                                                                              |               |     |                                                     |   |                   |                                                                                                                          |           |         |
| <b>Restrictive Layer (if present):</b>                                                                                                                                                                                                                         |               |     |                                                     |   |                   |                                                                                                                          |           |         |
| Type: _____                                                                                                                                                                                                                                                    |               |     |                                                     |   |                   |                                                                                                                          |           |         |
| Depth (inches): _____                                                                                                                                                                                                                                          |               |     |                                                     |   |                   | Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____                                                 |           |         |
| Remarks:<br>Soil samples taken in this area were found to have a pH of 8 which could inhibit formation of hydric soil indicators. Therefore, due to the prevalence of hydrophytic vegetation presence of hydrology indicators, soils are assumed to be hydric. |               |     |                                                     |   |                   |                                                                                                                          |           |         |

| WETLAND HYDROLOGY                                                                                          |                                                                        |                             |                                                                                                       |                                |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>Wetland Hydrology Indicators:</b>                                                                       |                                                                        |                             |                                                                                                       |                                |
| Primary Indicators (minimum of one required; check all that apply)                                         |                                                                        |                             | Secondary Indicators (2 or more required)                                                             |                                |
| <input checked="" type="checkbox"/> Surface Water (A1)                                                     | <input type="checkbox"/> Salt Crust (B11)                              |                             | <input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )                                         |                                |
| <input checked="" type="checkbox"/> High Water Table (A2)                                                  | <input type="checkbox"/> Biotic Crust (B12)                            |                             | <input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )                                   |                                |
| <input checked="" type="checkbox"/> Saturation (A3)                                                        | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |                             | <input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )                                      |                                |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )                                           | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |                             | <input type="checkbox"/> Drainage Patterns (B10)                                                      |                                |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )                                     | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |                             | <input type="checkbox"/> Dry-Season Water Table (C2)                                                  |                                |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )                                        | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |                             | <input type="checkbox"/> Crayfish Burrows (C8)                                                        |                                |
| <input type="checkbox"/> Surface Soil Cracks (B6)                                                          | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |                             | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)                                    |                                |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)                                         | <input type="checkbox"/> Thin Muck Surface (C7)                        |                             | <input type="checkbox"/> Shallow Aquitard (D3)                                                        |                                |
| <input type="checkbox"/> Water-Stained Leaves (B9)                                                         | <input type="checkbox"/> Other (Explain in Remarks)                    |                             | <input checked="" type="checkbox"/> FAC-Neutral Test (D5)                                             |                                |
| <b>Field Observations:</b>                                                                                 |                                                                        |                             |                                                                                                       |                                |
| Surface Water Present?                                                                                     | Yes <input type="checkbox"/>                                           | No <input type="checkbox"/> | Depth (Inches):                                                                                       | <input type="text" value="4"/> |
| Water Table Present?                                                                                       | Yes <input checked="" type="checkbox"/>                                | No <input type="checkbox"/> | Depth (Inches):                                                                                       | <input type="text" value="2"/> |
| Saturation Present?                                                                                        | Yes <input checked="" type="checkbox"/>                                | No <input type="checkbox"/> | Depth (Inches):                                                                                       | <input type="text" value="2"/> |
| (includes capillary fringe)                                                                                |                                                                        |                             |                                                                                                       |                                |
|                                                                                                            |                                                                        |                             | <b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |                                                                        |                             |                                                                                                       |                                |
| Remarks:                                                                                                   |                                                                        |                             |                                                                                                       |                                |

|                                                                                          |  |                                              |                                                                              |                             |  |                                 |  |  |
|------------------------------------------------------------------------------------------|--|----------------------------------------------|------------------------------------------------------------------------------|-----------------------------|--|---------------------------------|--|--|
| Project/Site: <u>Big Canyon Phase 2A</u>                                                 |  |                                              | City/County: <u>Newport Beach/Orange</u>                                     |                             |  | Sampling Date: <u>3/27/2018</u> |  |  |
| Applicant/Owner: <u>City of Newport Beach</u>                                            |  |                                              | State: <u>CA</u>                                                             |                             |  | Sampling Point: <u>WW 2A-5</u>  |  |  |
| Investigator(s): <u>Julie Stout, Tommy Moloo</u>                                         |  |                                              | Section, Township, Range: <u>Township 6 South, Range 10 West, Section 24</u> |                             |  |                                 |  |  |
| Landform (hillslope, terrace, etc.): <u>terrace</u>                                      |  |                                              | Local relief (concave, convex, none): <u>convex</u>                          |                             |  | Slope (%): <u>0</u>             |  |  |
| Subregion (LRR): <u>C</u>                                                                |  | Lat: <u>33.629548</u>                        |                                                                              | Long: <u>-117.880065</u>    |  | Datum: <u>NAD 83</u>            |  |  |
| Soil Map Unit Name: <u>Tidal flats</u>                                                   |  |                                              | NWI classification: <u>PSSC</u>                                              |                             |  |                                 |  |  |
| Are climatic / hydrologic conditions on the site typical for this time of year?          |  |                                              |                                                                              | Yes <u>X</u> No <u>    </u> |  | (If no, explain in Remarks.)    |  |  |
| Are Vegetation <u>X</u> Soil <u>X</u> or Hydrology <u>    </u> significantly disturbed?  |  | Are "Normal Circumstances" present?          |                                                                              | Yes <u>x</u> No <u>    </u> |  |                                 |  |  |
| Are Vegetation <u>    </u> Soil <u>X</u> or Hydrology <u>    </u> naturally problematic? |  | (If needed, explain any answers in Remarks.) |                                                                              |                             |  |                                 |  |  |

|                                                                                                                     |     |          |    |                   |                                                                |
|---------------------------------------------------------------------------------------------------------------------|-----|----------|----|-------------------|----------------------------------------------------------------|
| Hydrophytic Vegetation Present?                                                                                     | Yes | <u>x</u> | No | <u>          </u> |                                                                |
| Hydric Soil Present?                                                                                                | Yes | <u>x</u> | No | <u>          </u> | <b>Is the Sampled Area</b>                                     |
| Wetland Hydrology Present?                                                                                          | Yes | <u>x</u> | No | <u>          </u> | <b>within a Wetland?</b> Yes <u>  x  </u> No <u>          </u> |
| Remarks:    Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content. |     |          |    |                   |                                                                |
| adjacent to channel                                                                                                 |     |          |    |                   |                                                                |

| Tree Stratum (Plot size: 30' R )                               |                                |  | Absolute % Cover          | Dominant Species? | Indicator Status |
|----------------------------------------------------------------|--------------------------------|--|---------------------------|-------------------|------------------|
| 1.                                                             | <i>Schinus terebinthifolia</i> |  | 90                        | Y                 | FAC              |
| 2.                                                             |                                |  |                           |                   |                  |
| 3.                                                             |                                |  |                           |                   |                  |
| 4.                                                             |                                |  |                           |                   |                  |
|                                                                |                                |  | 90                        | = Total Cover     |                  |
| Sapling/Shrub Stratum (Plot size: 30' R )                      |                                |  |                           |                   |                  |
| 1.                                                             |                                |  |                           |                   |                  |
| 2.                                                             |                                |  |                           |                   |                  |
| 3.                                                             |                                |  |                           |                   |                  |
| 4.                                                             |                                |  |                           |                   |                  |
| 5.                                                             |                                |  |                           |                   |                  |
|                                                                |                                |  |                           | = Total Cover     |                  |
| Herb Stratum (Plot size: 5' R )                                |                                |  |                           |                   |                  |
| 1.                                                             |                                |  |                           |                   |                  |
| 2.                                                             |                                |  |                           |                   |                  |
| 3.                                                             |                                |  |                           |                   |                  |
| 4.                                                             |                                |  |                           |                   |                  |
| 5.                                                             |                                |  |                           |                   |                  |
| 6.                                                             |                                |  |                           |                   |                  |
| 7.                                                             |                                |  |                           |                   |                  |
| 8.                                                             |                                |  |                           |                   |                  |
| 9.                                                             |                                |  |                           |                   |                  |
| 10.                                                            |                                |  |                           |                   |                  |
| 11.                                                            |                                |  |                           |                   |                  |
|                                                                |                                |  |                           | = Total Cover     |                  |
| Woody Vine Stratum (Plot size: 30' R )                         |                                |  |                           |                   |                  |
| 1.                                                             |                                |  |                           |                   |                  |
| 2.                                                             |                                |  |                           |                   |                  |
|                                                                |                                |  |                           | = Total Cover     |                  |
| % Bare Ground in Herb Stratum 0                                |                                |  | % Cover of Biotic Crust 0 |                   |                  |
| Remarks:<br>leaf litter and bare ground with dense tree canopy |                                |  |                           |                   |                  |

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (C)

**Prevalence Index worksheet:**

| Total % Cover of:     | Multiply by: |
|-----------------------|--------------|
| OBL species           | x 1=         |
| FACW species          | x 2=         |
| FAC species 90        | x 3= 270     |
| FACU species          | x 4=         |
| UPL species           | x 5=         |
| Column Totals: 90 (A) | 270 (B)      |

Prevalence Index = B/A = 3.0

**Hydrophytic Vegetation Indicators:**

- 1- Rapid Test For Hydrophytic Vegetation
- x 2- Dominance Test is >50%
- x 3- Prevalence Index is ≤3.0<sup>1</sup>
- 4- Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
- 5- Wetland Non-Vascular Plants<sup>1</sup>
- 6- Problematic Hydrophytic Vegetation<sup>1</sup>(Explain)

<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Hydrophytic Vegetation Present?** Yes x No

## SOIL

Sampling Point: WW 2A-5

| <b>Profile Description:</b> (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |               |     |                                      |   |                   |                                                 |                                                               |                         |
|----------------------------------------------------------------------------------------------------------------------------|---------------|-----|--------------------------------------|---|-------------------|-------------------------------------------------|---------------------------------------------------------------|-------------------------|
| Depth<br>(inches)                                                                                                          | Matrix        |     | Redox Features                       |   |                   |                                                 | Texture                                                       | Remarks                 |
|                                                                                                                            | Color (moist) | %   | Color (moist)                        | % | Type <sup>1</sup> | Loc <sup>2</sup>                                |                                                               |                         |
| 0-5                                                                                                                        | 2.5Y3/2       | 100 |                                      |   |                   |                                                 | sandy loam                                                    |                         |
| 5-12                                                                                                                       | 2.5Y 3/1      | 98  | 10YR4/4                              | 2 | C                 | M                                               | sandy clay loam                                               |                         |
| 12-21                                                                                                                      | 2.5Y 3/1      | 100 |                                      |   |                   |                                                 | sandy loam                                                    | coarse-very coarse sand |
|                                                                                                                            |               |     |                                      |   |                   |                                                 |                                                               |                         |
|                                                                                                                            |               |     |                                      |   |                   |                                                 |                                                               |                         |
|                                                                                                                            |               |     |                                      |   |                   |                                                 |                                                               |                         |
|                                                                                                                            |               |     |                                      |   |                   |                                                 |                                                               |                         |
|                                                                                                                            |               |     |                                      |   |                   |                                                 |                                                               |                         |
|                                                                                                                            |               |     |                                      |   |                   |                                                 |                                                               |                         |
|                                                                                                                            |               |     |                                      |   |                   |                                                 |                                                               |                         |
|                                                                                                                            |               |     |                                      |   |                   |                                                 |                                                               |                         |
|                                                                                                                            |               |     |                                      |   |                   |                                                 |                                                               |                         |
| <sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.                      |               |     |                                      |   |                   | <sup>2</sup> Location: PL=Pore Lining, M=Matrix |                                                               |                         |
| <b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>                                           |               |     |                                      |   |                   |                                                 | <b>Indicators for Problematic Hydric Soils:<sup>*</sup></b>   |                         |
| ___ Histosol (A1)                      ___ Sandy Redox (S5)                                                                |               |     | ___ 1 cm Muck (A9) ( <b>LRR C</b> )  |   |                   |                                                 |                                                               |                         |
| ___ Histic Epipedon (A2)                 ___ Stripped Matrix (S6)                                                          |               |     | ___ 2 cm Muck (A10) ( <b>LRR B</b> ) |   |                   |                                                 |                                                               |                         |
| ___ Black Histic (A3)                      ___ Loamy Mucky Mineral (F1)                                                    |               |     | ___ Reduced Vertic (F18)             |   |                   |                                                 |                                                               |                         |
| ___ Hydrogen Sulfide (A4)                 ___ Loamy Gleyed Matrix (F2)                                                     |               |     | ___ Red Parent Material (TF2)        |   |                   |                                                 |                                                               |                         |
| ___ Stratified Layers (A5) ( <b>LRR C</b> )          ___ Depleted Matrix (F3)                                              |               |     | ___ Other (Explain in Remarks)       |   |                   |                                                 |                                                               |                         |
| ___ 1 cm Muck (A9) ( <b>LRR D</b> )                 x Redox Dark Surface (F6)                                              |               |     |                                      |   |                   |                                                 |                                                               |                         |
| ___ Depleted Below Dark Surface (A11)         ___ Depleted Dark Surface (F7)                                               |               |     |                                      |   |                   |                                                 |                                                               |                         |
| ___ Thick Dark Surface (A12)                 ___ Redox Depressions (F8)                                                    |               |     |                                      |   |                   |                                                 |                                                               |                         |
| ___ Sandy Mucky Mineral (S1)                 ___ Vernal Pools (F9)                                                         |               |     |                                      |   |                   |                                                 |                                                               |                         |
| ___ Sandy Gleyed Matrix (S4)                                                                                               |               |     |                                      |   |                   |                                                 |                                                               |                         |
| <b>Restrictive Layer (if present):</b>                                                                                     |               |     |                                      |   |                   |                                                 | <b>Hydric Soil Present?</b> Yes <u>  x  </u> No <u>      </u> |                         |
| Type: _____                                                                                                                |               |     |                                      |   |                   |                                                 |                                                               |                         |
| Depth (inches): _____                                                                                                      |               |     |                                      |   |                   |                                                 |                                                               |                         |
| Remarks: _____                                                                                                             |               |     |                                      |   |                   |                                                 |                                                               |                         |

## HYDROLOGY

| HYDROLOGY                                                                                                  |                                                                        |                                                                                                       |  |                                                 |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|
| <b>Wetland Hydrology Indicators:</b>                                                                       |                                                                        |                                                                                                       |  |                                                 |
| Primary Indicators (minimum of one required; check all that apply)                                         |                                                                        | Secondary Indicators (2 or more required)                                                             |  |                                                 |
| <input type="checkbox"/> Surface Water (A1)                                                                | <input type="checkbox"/> Salt Crust (B11)                              | <input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )                                         |  |                                                 |
| <input type="checkbox"/> High Water Table (A2)                                                             | <input type="checkbox"/> Biotic Crust (B12)                            | <input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )                                   |  |                                                 |
| <input checked="" type="checkbox"/> Saturation (A3)                                                        | <input type="checkbox"/> Aquatic Invertebrates (B13)                   | <input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )                                      |  |                                                 |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )                                           | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input type="checkbox"/> Drainage Patterns (B10)                                                      |  |                                                 |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )                                     | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2)                                                  |  |                                                 |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )                                        | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Crayfish Burrows (C8)                                                        |  |                                                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                                                          | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)                                    |  |                                                 |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)                                         | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Shallow Aquitard (D3)                                                        |  |                                                 |
| <input type="checkbox"/> Water-Stained Leaves (B9)                                                         | <input type="checkbox"/> Other (Explain in Remarks)                    | <input checked="" type="checkbox"/> FAC-Neutral Test (D5)                                             |  |                                                 |
| <b>Field Observations:</b>                                                                                 |                                                                        | <b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  |                                                 |
| Surface Water Present?                                                                                     | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>    |                                                                                                       |  | Depth (Inches): <input type="text"/>            |
| Water Table Present?                                                                                       | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>    |                                                                                                       |  | Depth (Inches): <input type="text" value="19"/> |
| Saturation Present?                                                                                        | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>    |                                                                                                       |  | Depth (Inches): <input type="text" value="12"/> |
| (includes capillary fringe)                                                                                |                                                                        |                                                                                                       |  |                                                 |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |                                                                        |                                                                                                       |  |                                                 |
| Remarks:      adjacent to channel                                                                          |                                                                        |                                                                                                       |  |                                                 |

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Big Canyon Phase 2A City/County: Newport Beach/Orange Sampling Date: 3/27/2018  
 Applicant/Owner: City of Newport Beach State: CA Sampling Point: WW 2A-6  
 Investigator(s): Julie Stout, Tommy Molioo Section, Township, Range: Township 6 South, Range 10 West, Section 24  
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): convex Slope (%): 0  
 Subregion (LRR): C Lat: 33.629785 Long: -117.880197 Datum: NAD 83  
 Soil Map Unit Name: Tidal flats NWI classification: PSSC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation X Soil X or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes x No       
 Are Vegetation      Soil      or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                         |                             |                                                  |                             |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------|-----------------------------|
| Hydrophytic Vegetation Present?                                                                                         | Yes <u>x</u> No <u>    </u> | <b>Is the Sampled Area<br/>within a Wetland?</b> | Yes <u>x</u> No <u>    </u> |
| Hydric Soil Present?                                                                                                    | Yes <u>x</u> No <u>    </u> |                                                  |                             |
| Wetland Hydrology Present?                                                                                              | Yes <u>x</u> No <u>    </u> |                                                  |                             |
| Remarks: <u>Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content.</u> |                             |                                                  |                             |
| <u>0</u>                                                                                                                |                             |                                                  |                             |

## VEGETATION – Use scientific names of plants.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Absolute<br>% Cover              | Dominant<br>Species? | Indicator<br>Status |                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tree Stratum</b> (Plot size: <u>30' R</u> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |
| 1. <u>Schinus terebinthifolia</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u>63</u>                        | <u>Y</u>             | <u>FAC</u>          | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Number of Dominant Species Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (C)                                                                                                                              |
| 2. <u>Salix lasiolepis</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>10</u>                        | <u>N</u>             | <u>FACW</u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 4. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| <u>73</u> = Total Cover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Sapling/Shrub Stratum</b> (Plot size: <u>30' R</u> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |
| 1. <u>Typha latifolia</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>5</u>                         | <u>Y</u>             | <u>OBL</u>          | <b>Prevalence Index worksheet:</b><br>Total % Cover of:      Multiply by:<br>OBL species <u>7</u> x 1= <u>7</u><br>FACW species <u>10</u> x 2= <u>20</u><br>FAC species <u>63</u> x 3= <u>189</u><br>FACU species <u>    </u> x 4= <u>    </u><br>UPL species <u>    </u> x 5= <u>    </u><br>Column Totals: <u>80</u> (A) <u>216</u> (B)<br><br>Prevalence Index = B/A = <u>2.7</u> |
| 2. <u>Schoenoplectus californicus</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>2</u>                         | <u>N</u>             | <u>OBL</u>          |                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 4. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| <u>7</u> = Total Cover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Herb Stratum</b> (Plot size: <u>5' R</u> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |
| 1. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 2. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 4. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 6. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 7. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 8. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 9. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 10. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 11. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| <u>    </u> = Total Cover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Woody Vine Stratum</b> (Plot size: <u>30' R</u> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |
| 1. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| 2. <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                      |
| <u>    </u> = Total Cover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |
| % Bare Ground in Herb Stratum <u>20</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | % Cover of Biotic Crust <u>0</u> |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Hydrophytic Vegetation Indicators:</b><br><u>    </u> 1- Rapid Test For Hydrophytic Vegetation<br><u>x</u> 2- Dominance Test is >50%<br><u>x</u> 3- Prevalence Index is ≤3.0 <sup>1</sup><br><u>    </u> 4- Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><u>    </u> 5- Wetland Non-Vascular Plants <sup>1</sup><br><u>    </u> 6- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |
| Remarks: <u>leaf litter and bare ground with dense tree canopy</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                      |

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

|                                               |                                               |                                            |
|-----------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Surface Water (A1)                            | Salt Crust (B11)                              | Water Marks (B1) ( <b>Riverine</b> )       |
| x High Water Table (A2)                       | Biotic Crust (B12)                            | Sediment Deposits (B2) ( <b>Riverine</b> ) |
| x Saturation (A3)                             | Aquatic Invertebrates (B13)                   | Drift Deposits (B3) ( <b>Riverine</b> )    |
| Water Marks (B1) ( <b>Nonriverine</b> )       | Hydrogen Sulfide Odor (C1)                    | Drainage Patterns (B10)                    |
| Sediment Deposits (B2) ( <b>Nonriverine</b> ) | Oxidized Rhizospheres along Living Roots (C3) | Dry-Season Water Table (C2)                |
| Drift Deposits (B3) ( <b>Nonriverine</b> )    | Presence of Reduced Iron (C4)                 | Crayfish Burrows (C8)                      |
| Surface Soil Cracks (B6)                      | Recent Iron Reduction in Tilled Soils (C6)    | Saturation Visible on Aerial Imagery (C9)  |
| Inundation Visible on Aerial Imagery (B7)     | Thin Muck Surface (C7)                        | Shallow Aquitard (D3)                      |
| Water-Stained Leaves (B9)                     | Other (Explain in Remarks)                    | FAC-Neutral Test (D5)                      |

**Field Observations:**

|                             |                   |                  |                                  |                                                                     |
|-----------------------------|-------------------|------------------|----------------------------------|---------------------------------------------------------------------|
| Surface Water Present?      | Yes <u>      </u> | No <u>  x  </u>  | Depth (Inches): <u>      </u>    | <b>Wetland Hydrology Present?</b> Yes <u>  x  </u> No <u>      </u> |
| Water Table Present?        | Yes <u>  x  </u>  | No <u>      </u> | Depth (Inches): <u>    6    </u> |                                                                     |
| Saturation Present?         | Yes <u>  x  </u>  | No <u>      </u> | Depth (Inches): <u>    4    </u> |                                                                     |
| (includes capillary fringe) |                   |                  |                                  |                                                                     |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Big Canyon Phase 2A City/County: Newport Beach/Orange Sampling Date: 3/27/2018  
 Applicant/Owner: City of Newport Beach State: CA Sampling Point: UPL 2A-6  
 Investigator(s): Julie Stout, Tommy Molioo Section, Township, Range: Township 6 South, Range 10 West, Section 24  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 0  
 Subregion (LRR): C Lat: 33.629796 Long: -117.88013 Datum: NAD 83  
 Soil Map Unit Name: Tidal flats NWI classification: PSSC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation X Soil X or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes x No       
 Are Vegetation      Soil      or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                         |                             |                                                  |                             |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------|-----------------------------|
| Hydrophytic Vegetation Present?                                                                                         | Yes <u>x</u> No <u>    </u> | <b>Is the Sampled Area<br/>within a Wetland?</b> | Yes <u>    </u> No <u>x</u> |
| Hydric Soil Present?                                                                                                    | Yes <u>    </u> No <u>x</u> |                                                  |                             |
| Wetland Hydrology Present?                                                                                              | Yes <u>    </u> No <u>x</u> |                                                  |                             |
| Remarks: <u>Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content.</u> |                             |                                                  |                             |
| <u>0</u>                                                                                                                |                             |                                                  |                             |

## VEGETATION – Use scientific names of plants.

|                                                                    | Absolute<br>% Cover | Dominant<br>Species?             | Indicator<br>Status |  |
|--------------------------------------------------------------------|---------------------|----------------------------------|---------------------|--|
| <b>Tree Stratum</b> (Plot size: <u>30' R</u> )                     |                     |                                  |                     |  |
| 1. <u>Schinus terebinthifolia</u>                                  | <u>80</u>           | <u>Y</u>                         | <u>FAC</u>          |  |
| 2. <u>    </u>                                                     |                     |                                  |                     |  |
| 3. <u>    </u>                                                     |                     |                                  |                     |  |
| 4. <u>    </u>                                                     |                     |                                  |                     |  |
|                                                                    | <u>80</u>           | <u>= Total Cover</u>             |                     |  |
| <b>Sapling/Shrub Stratum</b> (Plot size: <u>30' R</u> )            |                     |                                  |                     |  |
| 1. <u>    </u>                                                     |                     |                                  |                     |  |
| 2. <u>    </u>                                                     |                     |                                  |                     |  |
| 3. <u>    </u>                                                     |                     |                                  |                     |  |
| 4. <u>    </u>                                                     |                     |                                  |                     |  |
| 5. <u>    </u>                                                     |                     |                                  |                     |  |
|                                                                    |                     | <u>= Total Cover</u>             |                     |  |
| <b>Herb Stratum</b> (Plot size: <u>5' R</u> )                      |                     |                                  |                     |  |
| 1. <u>    </u>                                                     |                     |                                  |                     |  |
| 2. <u>    </u>                                                     |                     |                                  |                     |  |
| 3. <u>    </u>                                                     |                     |                                  |                     |  |
| 4. <u>    </u>                                                     |                     |                                  |                     |  |
| 5. <u>    </u>                                                     |                     |                                  |                     |  |
| 6. <u>    </u>                                                     |                     |                                  |                     |  |
| 7. <u>    </u>                                                     |                     |                                  |                     |  |
| 8. <u>    </u>                                                     |                     |                                  |                     |  |
| 9. <u>    </u>                                                     |                     |                                  |                     |  |
| 10. <u>    </u>                                                    |                     |                                  |                     |  |
| 11. <u>    </u>                                                    |                     |                                  |                     |  |
|                                                                    |                     | <u>= Total Cover</u>             |                     |  |
| <b>Woody Vine Stratum</b> (Plot size: <u>30' R</u> )               |                     |                                  |                     |  |
| 1. <u>    </u>                                                     |                     |                                  |                     |  |
| 2. <u>    </u>                                                     |                     |                                  |                     |  |
|                                                                    |                     | <u>= Total Cover</u>             |                     |  |
| % Bare Ground in Herb Stratum <u>20</u>                            |                     | % Cover of Biotic Crust <u>0</u> |                     |  |
| Remarks: <u>leaf litter and bare ground with dense tree canopy</u> |                     |                                  |                     |  |

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (C)

**Prevalence Index worksheet:**

|                              |                  |
|------------------------------|------------------|
| Total % Cover of:            | Multiply by:     |
| OBL species <u>    </u>      | x 1= <u>    </u> |
| FACW species <u>    </u>     | x 2= <u>    </u> |
| FAC species <u>80</u>        | x 3= <u>240</u>  |
| FACU species <u>    </u>     | x 4= <u>    </u> |
| UPL species <u>    </u>      | x 5= <u>    </u> |
| Column Totals: <u>80</u> (A) | <u>240</u> (B)   |

Prevalence Index = B/A = 3.0

**Hydrophytic Vegetation Indicators:**

     1- Rapid Test For Hydrophytic Vegetation

x 2- Dominance Test is >50%

x 3- Prevalence Index is ≤3.0<sup>1</sup>

     4- Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     5- Wetland Non-Vascular Plants<sup>1</sup>

     6- Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Hydrophytic Vegetation Present?** Yes x No

Sampling Point: UPL 2A-6

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

|                                               |                                               |                                            |
|-----------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Surface Water (A1)                            | Salt Crust (B11)                              | Water Marks (B1) ( <b>Riverine</b> )       |
| High Water Table (A2)                         | Biotic Crust (B12)                            | Sediment Deposits (B2) ( <b>Riverine</b> ) |
| Saturation (A3)                               | Aquatic Invertebrates (B13)                   | x Drift Deposits (B3) ( <b>Riverine</b> )  |
| Water Marks (B1) ( <b>Nonriverine</b> )       | Hydrogen Sulfide Odor (C1)                    | Drainage Patterns (B10)                    |
| Sediment Deposits (B2) ( <b>Nonriverine</b> ) | Oxidized Rhizospheres along Living Roots (C3) | Dry-Season Water Table (C2)                |
| Drift Deposits (B3) ( <b>Nonriverine</b> )    | Presence of Reduced Iron (C4)                 | Crayfish Burrows (C8)                      |
| Surface Soil Cracks (B6)                      | Recent Iron Reduction in Tilled Soils (C6)    | Saturation Visible on Aerial Imagery (C9)  |
| Inundation Visible on Aerial Imagery (B7)     | Thin Muck Surface (C7)                        | Shallow Aquitard (D3)                      |
| Water-Stained Leaves (B9)                     | Other (Explain in Remarks)                    | FAC-Neutral Test (D5)                      |

**Field Observations:**

|                             |                 |             |                                   |                                                               |
|-----------------------------|-----------------|-------------|-----------------------------------|---------------------------------------------------------------|
| Surface Water Present?      | Yes <u>    </u> | No <u>x</u> | Depth (Inches): <u>          </u> | <b>Wetland Hydrology Present?</b> Yes <u>    </u> No <u>x</u> |
| Water Table Present?        | Yes <u>    </u> | No <u>x</u> | Depth (Inches): <u>          </u> |                                                               |
| Saturation Present?         | Yes <u>x</u>    | No <u>x</u> | Depth (Inches): <u>          </u> |                                                               |
| (includes capillary fringe) |                 |             |                                   |                                                               |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wood has been stacked along perimeter of site by human users, but based on camp site and structures set-up in the area, the site does not flood on a regular basis.

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Big Canyon Phase 2A City/County: Newport Beach/Orange Sampling Date: 3/27/2018  
 Applicant/Owner: City of Newport Beach State: CA Sampling Point: WW 2A-7  
 Investigator(s): Julie Stout, Tommy Molioo Section, Township, Range: Township 6 South, Range 10 West, Section 24  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 0  
 Subregion (LRR): C Lat: 33.62921 Long: -117.8796 Datum: NAD 83  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: PSSC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation X Soil X or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes x No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_ Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                         |                       |                                                  |                       |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------|-----------------------|
| Hydrophytic Vegetation Present?                                                                                         | Yes <u>x</u> No _____ | <b>Is the Sampled Area<br/>within a Wetland?</b> | Yes <u>x</u> No _____ |
| Hydric Soil Present?                                                                                                    | Yes <u>x</u> No _____ |                                                  |                       |
| Wetland Hydrology Present?                                                                                              | Yes <u>x</u> No _____ |                                                  |                       |
| Remarks: <u>Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content.</u> |                       |                                                  |                       |
| <u>0</u>                                                                                                                |                       |                                                  |                       |

## VEGETATION – Use scientific names of plants.

| <u>Tree Stratum</u> (Plot size: <u>30' R</u> )                           | Absolute<br>% Cover     | Dominant<br>Species? | Indicator<br>Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species<br>That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Number of Dominant Species<br>Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That<br>Are OBL, FACW, or FAC <u>67</u> (C)                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------|-------------------------|----------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. <u>Myoporum laetum</u>                                                | <u>25</u>               | <u>Y</u>             | <u>FACU</u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. <u>Schinus terebinthifolia</u>                                        | <u>50</u>               | <u>Y</u>             | <u>FAC</u>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                          | <u>75</u> = Total Cover |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u> )                  |                         |                      |                     | <b>Prevalence Index worksheet:</b><br>Total % Cover of: _____ Multiply by: _____<br>OBL species <u>2</u> x 1= <u>2</u><br>FACW species _____ x 2= _____<br>FAC species <u>65</u> x 3= <u>195</u><br>FACU species <u>30</u> x 4= <u>120</u><br>UPL species _____ x 5= _____<br>Column Totals: <u>97</u> (A) <u>317</u> (B)<br><br>Prevalence Index = B/A = <u>3.3</u>                                                                                                                                                                                |
| 1. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 5. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                          | _____ = Total Cover     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>Herb Stratum</u> (Plot size: <u>5' R</u> )                            |                         |                      |                     | <b>Hydrophytic Vegetation Indicators:</b><br>____ 1- Rapid Test For Hydrophytic Vegetation<br><u>x</u> 2- Dominance Test is >50%<br>____ 3- Prevalence Index is ≤3.0 <sup>1</sup><br>____ 4- Morphological Adaptations <sup>1</sup> (Provide supporting<br>data in Remarks or on a separate sheet)<br>____ 5- Wetland Non-Vascular Plants <sup>1</sup><br>____ 6- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be<br>present, unless disturbed or problematic |
| 1. <u>Urtica dioica</u>                                                  | <u>15</u>               | <u>Y</u>             | <u>FAC</u>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. <u>Apium graveolens</u>                                               | <u>5</u>                | <u>N</u>             | <u>NL</u>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. <u>Schoenoplectus californicus</u>                                    | <u>2</u>                | <u>N</u>             | <u>OBL</u>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4. <u>Solanum americanum</u>                                             | <u>5</u>                | <u>N</u>             | <u>FACU</u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 5. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 7. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 8. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 10. _____                                                                | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 11. _____                                                                | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                          | <u>27</u> = Total Cover |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <u>Woody Vine Stratum</u> (Plot size: <u>30' R</u> )                     |                         |                      |                     | <b>Hydrophytic<br/>Vegetation<br/>Present?</b> Yes <u>x</u> No _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. _____                                                                 | _____                   | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                          | _____ = Total Cover     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| % Bare Ground in Herb Stratum <u>20</u> % Cover of Biotic Crust <u>0</u> |                         |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Remarks: _____                                                           |                         |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |               |    |                |    |                   |                  |            |         |
|---------------------------------------------------------------------------------------------------------------------|---------------|----|----------------|----|-------------------|------------------|------------|---------|
| Depth<br>(inches)                                                                                                   | Matrix        |    | Redox Features |    |                   |                  | Texture    | Remarks |
|                                                                                                                     | Color (moist) | %  | Color (moist)  | %  | Type <sup>1</sup> | Loc <sup>2</sup> |            |         |
| 0-2                                                                                                                 | 2.5Y 3/1      | 95 | 10YR 4/4       | 5  | C                 | M                | clay loam  |         |
| 2-7                                                                                                                 | 2.5Y 3/2      | 90 | 10YR 4/4       | 10 | C                 | M                | loamy sand |         |
| 7-18                                                                                                                | 10YR 3/1      | 85 | 7.5 YR 4/6     | 15 | C                 | M                | loam       |         |
|                                                                                                                     |               |    |                |    |                   |                  |            |         |
|                                                                                                                     |               |    |                |    |                   |                  |            |         |
|                                                                                                                     |               |    |                |    |                   |                  |            |         |
|                                                                                                                     |               |    |                |    |                   |                  |            |         |
|                                                                                                                     |               |    |                |    |                   |                  |            |         |
|                                                                                                                     |               |    |                |    |                   |                  |            |         |

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) |                                                             | Indicators for Problematic Hydric Soils:            |
|---------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Redox (S5)                   | <input type="checkbox"/> 1 cm Muck (A9) (LRR C)     |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input type="checkbox"/> Stripped Matrix (S6)               | <input type="checkbox"/> 2 cm Muck (A10) (LRR B)    |
| <input type="checkbox"/> Black Histic (A3)                                | <input type="checkbox"/> Loamy Mucky Mineral (F1)           | <input type="checkbox"/> Reduced Vertic (F18)       |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Gleyed Matrix (F2)           | <input type="checkbox"/> Red Parent Material (TF2)  |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)                   | <input type="checkbox"/> Depleted Matrix (F3)               | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)                           | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |                                                     |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)                | <input type="checkbox"/> Depleted Dark Surface (F7)         |                                                     |
| <input type="checkbox"/> Thick Dark Surface (A12)                         | <input type="checkbox"/> Redox Depressions (F8)             |                                                     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                         | <input type="checkbox"/> Vernal Pools (F9)                  |                                                     |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                         |                                                             |                                                     |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

|                                                                                    |                                                                                                 |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Restrictive Layer (if present):</b><br><br>Type: _____<br>Depth (inches): _____ | <b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|

Remarks:  
Soils presumed hydric due to presence of hydrophytic vegetation and wetland hydrology. Redox potentially not observed due to saturation of soil within 4 inches of surface.

| HYDROLOGY                                                          |                                                                        |                                                                    |  |
|--------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------|--|
| <b>Wetland Hydrology Indicators:</b>                               |                                                                        |                                                                    |  |
| Primary Indicators (minimum of one required; check all that apply) |                                                                        | Secondary Indicators (2 or more required)                          |  |
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              | <input type="checkbox"/> Water Marks (B1) (Riverine)               |  |
| <input checked="" type="checkbox"/> High Water Table (A2)          | <input type="checkbox"/> Biotic Crust (B12)                            | <input type="checkbox"/> Sediment Deposits (B2) (Riverine)         |  |
| <input checked="" type="checkbox"/> Saturation (A3)                | <input type="checkbox"/> Aquatic Invertebrates (B13)                   | <input type="checkbox"/> Drift Deposits (B3) (Riverine)            |  |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input checked="" type="checkbox"/> Drainage Patterns (B10)        |  |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2)               |  |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Crayfish Burrows (C8)                     |  |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |  |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Shallow Aquitard (D3)                     |  |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 | <input type="checkbox"/> Other (Explain in Remarks)                    | <input type="checkbox"/> FAC-Neutral Test (D5)                     |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Field Observations:</b><br><br>Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): _____<br>Water Table Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>11</u><br>Saturation Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>9</u><br>(includes capillary fringe) | <b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Big Canyon Phase 2A City/County: Newport Beach/Orange Sampling Date: 3/27/2018  
 Applicant/Owner: City of Newport Beach State: CA Sampling Point: UPL 2A-7  
 Investigator(s): Julie Stout, Tommy Molioo Section, Township, Range: Township 6 South, Range 10 West, Section 24  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 0  
 Subregion (LRR): C Lat: 33.629142 Long: -117.879666 Datum: NAD 83  
 Soil Map Unit Name: Tidal flats NWI classification: PSSC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation X Soil X or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes x No       
 Are Vegetation      Soil      or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                         |                             |                                                  |                             |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------|-----------------------------|
| Hydrophytic Vegetation Present?                                                                                         | Yes <u>x</u> No <u>    </u> | <b>Is the Sampled Area<br/>within a Wetland?</b> | Yes <u>    </u> No <u>x</u> |
| Hydric Soil Present?                                                                                                    | Yes <u>    </u> No <u>x</u> |                                                  |                             |
| Wetland Hydrology Present?                                                                                              | Yes <u>    </u> No <u>x</u> |                                                  |                             |
| Remarks: <u>Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content.</u> |                             |                                                  |                             |
| <u>0</u>                                                                                                                |                             |                                                  |                             |

## VEGETATION – Use scientific names of plants.

|                                                         | Absolute<br>% Cover | Dominant<br>Species?             | Indicator<br>Status |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------|---------------------|----------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tree Stratum</b> (Plot size: <u>30' R</u> )          |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1. <u>Schinus terebinthifolia</u>                       | <u>90</u>           | <u>Y</u>                         | <u>FAC</u>          | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Number of Dominant Species Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (C)                                                                                                                                                                                                                                                                                                                       |
| 2. <u>Washingtonia robusta</u>                          | <u>1</u>            | <u>N</u>                         | <u>FACW</u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <u>91</u> = Total Cover                                 |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Sapling/Shrub Stratum</b> (Plot size: <u>30' R</u> ) |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         | <b>Prevalence Index worksheet:</b><br>Total % Cover of: <u>    </u> Multiply by: <u>    </u><br>OBL species <u>    </u> x 1= <u>    </u><br>FACW species <u>1</u> x 2= <u>2</u><br>FAC species <u>94</u> x 3= <u>282</u><br>FACU species <u>    </u> x 4= <u>    </u><br>UPL species <u>    </u> x 5= <u>    </u><br>Column Totals: <u>95</u> (A) <u>284</u> (B)<br><br>Prevalence Index = B/A = <u>3.0</u>                                                                                                                                                                   |
| 2. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <u>    </u> = Total Cover                               |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Herb Stratum</b> (Plot size: <u>5' R</u> )           |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1. <u>Urtica dioica</u>                                 | <u>4</u>            | <u>Y</u>                         | <u>FAC</u>          | <b>Hydrophytic Vegetation Indicators:</b><br><u>    </u> 1- Rapid Test For Hydrophytic Vegetation<br><u>x</u> 2- Dominance Test is >50%<br><u>x</u> 3- Prevalence Index is ≤3.0 <sup>1</sup><br><u>    </u> 4- Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><u>    </u> 5- Wetland Non-Vascular Plants <sup>1</sup><br><u>    </u> 6- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic |
| 2. <u>Apium graveolens</u>                              | <u>5</u>            | <u>N</u>                         | <u>NL</u>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 7. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 8. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 9. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 10. <u>    </u>                                         | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 11. <u>    </u>                                         | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <u>9</u> = Total Cover                                  |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Woody Vine Stratum</b> (Plot size: <u>30' R</u> )    |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         | <b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <u>    </u> = Total Cover                               |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| % Bare Ground in Herb Stratum <u>20</u>                 |                     | % Cover of Biotic Crust <u>0</u> |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Remarks: <u>    </u>                                    |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |               |     |                |   |                   |                  |            |         |
|---------------------------------------------------------------------------------------------------------------------|---------------|-----|----------------|---|-------------------|------------------|------------|---------|
| Depth<br>(inches)                                                                                                   | Matrix        |     | Redox Features |   |                   |                  | Texture    | Remarks |
|                                                                                                                     | Color (moist) | %   | Color (moist)  | % | Type <sup>1</sup> | Loc <sup>2</sup> |            |         |
| 0-1                                                                                                                 | 5Y 2.5/1      | 100 |                |   |                   |                  | clay loam  |         |
| 1-8                                                                                                                 | 2.5Y 4/3      | 100 |                |   |                   |                  | sandy loam |         |
| 8-15                                                                                                                | 2.5Y 4/3      | 98  | 10YR 4/6       | 2 | C                 | M                | loamy sand |         |
| 15+                                                                                                                 | 5Y 4/1        | 95  | 10YR 4/6       | 5 | C                 | M                | sandy loam |         |
|                                                                                                                     |               |     |                |   |                   |                  |            |         |
|                                                                                                                     |               |     |                |   |                   |                  |            |         |
|                                                                                                                     |               |     |                |   |                   |                  |            |         |
|                                                                                                                     |               |     |                |   |                   |                  |            |         |

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) |                                                     | Indicators for Problematic Hydric Soils:            |
|---------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Redox (S5)           | <input type="checkbox"/> 1 cm Muck (A9) (LRR C)     |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input type="checkbox"/> Stripped Matrix (S6)       | <input type="checkbox"/> 2 cm Muck (A10) (LRR B)    |
| <input type="checkbox"/> Black Histic (A3)                                | <input type="checkbox"/> Loamy Mucky Mineral (F1)   | <input type="checkbox"/> Reduced Vertic (F18)       |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   | <input type="checkbox"/> Red Parent Material (TF2)  |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)                   | <input type="checkbox"/> Depleted Matrix (F3)       | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)                           | <input type="checkbox"/> Redox Dark Surface (F6)    |                                                     |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)                | <input type="checkbox"/> Depleted Dark Surface (F7) |                                                     |
| <input type="checkbox"/> Thick Dark Surface (A12)                         | <input type="checkbox"/> Redox Depressions (F8)     |                                                     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                         | <input type="checkbox"/> Vernal Pools (F9)          |                                                     |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                         |                                                     |                                                     |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

|                                                                                |                                                         |
|--------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>Restrictive Layer (if present):</b><br>Type: _____<br>Depth (inches): _____ | <b>Hydric Soil Present?</b> Yes ____    No <u>  x  </u> |
|--------------------------------------------------------------------------------|---------------------------------------------------------|

Remarks:  
Soils presumed hydric due to presence of hydrophytic vegetation and wetland hydrology. Redox potentially not observed due to saturation of soil within 4 inches of surface.

| HYDROLOGY                                                          |                                                                        |                                                                    |  |
|--------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------|--|
| <b>Wetland Hydrology Indicators:</b>                               |                                                                        |                                                                    |  |
| Primary Indicators (minimum of one required; check all that apply) |                                                                        | Secondary Indicators (2 or more required)                          |  |
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              | <input type="checkbox"/> Water Marks (B1) (Riverine)               |  |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            | <input type="checkbox"/> Sediment Deposits (B2) (Riverine)         |  |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   | <input type="checkbox"/> Drift Deposits (B3) (Riverine)            |  |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input checked="" type="checkbox"/> Drainage Patterns (B10)        |  |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2)               |  |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Crayfish Burrows (C8)                     |  |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |  |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Shallow Aquitard (D3)                     |  |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 | <input type="checkbox"/> Other (Explain in Remarks)                    | <input type="checkbox"/> FAC-Neutral Test (D5)                     |  |

|                                                                                                                                                                                                                                                                                                   |                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Field Observations:</b><br>Surface Water Present?    Yes ____    No <u>  x  </u> Depth (Inches): _____<br>Water Table Present?    Yes ____    No <u>  x  </u> Depth (Inches): _____<br>Saturation Present?    Yes ____    No <u>  x  </u> Depth (Inches): _____<br>(includes capillary fringe) | <b>Wetland Hydrology Present?</b> Yes ____    No <u>  x  </u> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Big Canyon Phase 2A City/County: Newport Beach/Orange Sampling Date: 3/27/2018  
 Applicant/Owner: City of Newport Beach State: CA Sampling Point: UPL 2A-8  
 Investigator(s): Julie Stout, Tommy Molioo Section, Township, Range: Township 6 South, Range 10 West, Section 24  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 0  
 Subregion (LRR): C Lat: 33.630785 Long: -117.881585 Datum: NAD 83  
 Soil Map Unit Name: Tidal flats NWI classification: PSSC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation X Soil X or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes x No       
 Are Vegetation      Soil      or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                         |                             |                                                                      |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------|
| Hydrophytic Vegetation Present?                                                                                         | Yes <u>    </u> No <u>x</u> | Is the Sampled Area<br>within a Wetland? Yes <u>    </u> No <u>x</u> |
| Hydric Soil Present?                                                                                                    | Yes <u>    </u> No <u>x</u> |                                                                      |
| Wetland Hydrology Present?                                                                                              | Yes <u>    </u> No <u>x</u> |                                                                      |
| Remarks: <u>Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content.</u> |                             |                                                                      |
| <u>0</u>                                                                                                                |                             |                                                                      |

## VEGETATION – Use scientific names of plants.

|                                                         | Absolute<br>% Cover | Dominant<br>Species?             | Indicator<br>Status |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------|---------------------|----------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tree Stratum</b> (Plot size: <u>30' R</u> )          |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1. <u>Schinus terebinthifolia</u>                       | <u>60</u>           | <u>Y</u>                         | <u>FAC</u>          | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Number of Dominant Species Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC <u>33</u> (C)                                                                                                                                                                                                                                                                                                                           |
| 2. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <u>60</u> = Total Cover                                 |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Sapling/Shrub Stratum</b> (Plot size: <u>30' R</u> ) |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         | <b>Prevalence Index worksheet:</b><br>Total % Cover of: <u>    </u> Multiply by: <u>    </u><br>OBL species <u>    </u> x 1= <u>    </u><br>FACW species <u>    </u> x 2= <u>    </u><br>FAC species <u>60</u> x 3= <u>180</u><br>FACU species <u>10</u> x 4= <u>40</u><br>UPL species <u>    </u> x 5= <u>    </u><br>Column Totals: <u>70</u> (A) <u>220</u> (B)<br><br>Prevalence Index = B/A = <u>3.1</u>                                                                                                                                                                   |
| 2. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <u>    </u> = Total Cover                               |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Herb Stratum</b> (Plot size: <u>5' R</u> )           |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1. <u>Cortaderia selloana</u>                           | <u>5</u>            | <u>Y</u>                         | <u>FACU</u>         | <b>Hydrophytic Vegetation Indicators:</b><br><u>    </u> 1- Rapid Test For Hydrophytic Vegetation<br><u>    </u> 2- Dominance Test is >50%<br><u>    </u> 3- Prevalence Index is ≤3.0 <sup>1</sup><br><u>    </u> 4- Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><u>    </u> 5- Wetland Non-Vascular Plants <sup>1</sup><br><u>    </u> 6- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic |
| 2. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 6. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 7. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 8. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 9. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 10. <u>    </u>                                         | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11. <u>    </u>                                         | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <u>5</u> = Total Cover                                  |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Woody Vine Stratum</b> (Plot size: <u>30' R</u> )    |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1. <u>Hedera helix</u>                                  | <u>5</u>            | <u>Y</u>                         | <u>FACU</u>         | <b>Hydrophytic Vegetation Present?</b> Yes <u>    </u> No <u>x</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2. <u>    </u>                                          | <u>    </u>         | <u>    </u>                      | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <u>5</u> = Total Cover                                  |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| % Bare Ground in Herb Stratum <u>20</u>                 |                     | % Cover of Biotic Crust <u>0</u> |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Remarks: <u>    </u>                                    |                     |                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## SOIL

Sampling Point: UPL 2A-8

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)                                                                           |               |     |                                                     |   |                   |                                                                                                                          |            |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|-----------------------------------------------------|---|-------------------|--------------------------------------------------------------------------------------------------------------------------|------------|---------|
| Depth<br>(inches)                                                                                                                                                                             | Matrix        |     | Redox Features                                      |   |                   |                                                                                                                          | Texture    | Remarks |
|                                                                                                                                                                                               | Color (moist) | %   | Color (moist)                                       | % | Type <sup>1</sup> | Loc <sup>2</sup>                                                                                                         |            |         |
| 0-6                                                                                                                                                                                           | 2.5Y 3/2      | 100 |                                                     |   |                   |                                                                                                                          | sandy loam |         |
| 6-16                                                                                                                                                                                          | 2.5Y 3/2      | 99  | 10YR 4/4                                            | 1 | C                 | M                                                                                                                        | sandy loam |         |
|                                                                                                                                                                                               |               |     |                                                     |   |                   |                                                                                                                          |            |         |
|                                                                                                                                                                                               |               |     |                                                     |   |                   |                                                                                                                          |            |         |
|                                                                                                                                                                                               |               |     |                                                     |   |                   |                                                                                                                          |            |         |
|                                                                                                                                                                                               |               |     |                                                     |   |                   |                                                                                                                          |            |         |
|                                                                                                                                                                                               |               |     |                                                     |   |                   |                                                                                                                          |            |         |
|                                                                                                                                                                                               |               |     |                                                     |   |                   |                                                                                                                          |            |         |
|                                                                                                                                                                                               |               |     |                                                     |   |                   |                                                                                                                          |            |         |
|                                                                                                                                                                                               |               |     |                                                     |   |                   |                                                                                                                          |            |         |
| <sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix                                         |               |     |                                                     |   |                   |                                                                                                                          |            |         |
| <b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>                                                                                                              |               |     |                                                     |   |                   | <b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>                                                              |            |         |
| <input type="checkbox"/> Histosol (A1)                                                                                                                                                        |               |     | <input type="checkbox"/> Sandy Redox (S5)           |   |                   | <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR C</b> )                                                                 |            |         |
| <input type="checkbox"/> Histic Epipedon (A2)                                                                                                                                                 |               |     | <input type="checkbox"/> Stripped Matrix (S6)       |   |                   | <input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR B</b> )                                                                |            |         |
| <input type="checkbox"/> Black Histic (A3)                                                                                                                                                    |               |     | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |   |                   | <input type="checkbox"/> Reduced Vertic (F18)                                                                            |            |         |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                                                                                                                                                |               |     | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |   |                   | <input type="checkbox"/> Red Parent Material (TF2)                                                                       |            |         |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )                                                                                                                              |               |     | <input type="checkbox"/> Depleted Matrix (F3)       |   |                   | <input type="checkbox"/> Other (Explain in Remarks)                                                                      |            |         |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )                                                                                                                                      |               |     | <input type="checkbox"/> Redox Dark Surface (F6)    |   |                   |                                                                                                                          |            |         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)                                                                                                                                    |               |     | <input type="checkbox"/> Depleted Dark Surface (F7) |   |                   |                                                                                                                          |            |         |
| <input type="checkbox"/> Thick Dark Surface (A12)                                                                                                                                             |               |     | <input type="checkbox"/> Redox Depressions (F8)     |   |                   |                                                                                                                          |            |         |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                                                                                                                                             |               |     | <input type="checkbox"/> Vernal Pools (F9)          |   |                   | <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic |            |         |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                                                                                                                                             |               |     |                                                     |   |                   |                                                                                                                          |            |         |
| <b>Restrictive Layer (if present):</b>                                                                                                                                                        |               |     |                                                     |   |                   |                                                                                                                          |            |         |
| Type: _____<br>Depth (inches): _____                                                                                                                                                          |               |     |                                                     |   |                   | <b>Hydric Soil Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                          |            |         |
| Remarks: _____<br>Soils presumed hydric due to presence of hydrophytic vegetation and wetland hydrology. Redox potentially not observed due to saturation of soil within 4 inches of surface. |               |     |                                                     |   |                   |                                                                                                                          |            |         |

| HYDROLOGY                                                                                                  |                                                                        |                                                                                                       |  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| <b>Wetland Hydrology Indicators:</b>                                                                       |                                                                        |                                                                                                       |  |
| Primary Indicators (minimum of one required; check all that apply)                                         |                                                                        | Secondary Indicators (2 or more required)                                                             |  |
| <input type="checkbox"/> Surface Water (A1)                                                                | <input type="checkbox"/> Salt Crust (B11)                              | <input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )                                         |  |
| <input type="checkbox"/> High Water Table (A2)                                                             | <input type="checkbox"/> Biotic Crust (B12)                            | <input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )                                   |  |
| <input type="checkbox"/> Saturation (A3)                                                                   | <input type="checkbox"/> Aquatic Invertebrates (B13)                   | <input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )                                      |  |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )                                           | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input checked="" type="checkbox"/> Drainage Patterns (B10)                                           |  |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )                                     | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2)                                                  |  |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )                                        | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Crayfish Burrows (C8)                                                        |  |
| <input type="checkbox"/> Surface Soil Cracks (B6)                                                          | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)                                    |  |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)                                         | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Shallow Aquitard (D3)                                                        |  |
| <input type="checkbox"/> Water-Stained Leaves (B9)                                                         | <input type="checkbox"/> Other (Explain in Remarks)                    | <input type="checkbox"/> FAC-Neutral Test (D5)                                                        |  |
| <b>Field Observations:</b>                                                                                 |                                                                        |                                                                                                       |  |
| Surface Water Present?                                                                                     | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>    | Depth (Inches):                                                                                       |  |
| Water Table Present?                                                                                       | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>    | Depth (Inches):                                                                                       |  |
| Saturation Present?                                                                                        | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>    | Depth (Inches):                                                                                       |  |
| (includes capillary fringe)                                                                                |                                                                        |                                                                                                       |  |
|                                                                                                            |                                                                        | <b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |                                                                        |                                                                                                       |  |
| Remarks:                                                                                                   |                                                                        |                                                                                                       |  |



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Big Canyon Phase 2A City/County: Newport Beach/Orange Sampling Date: 3/27/2018  
 Applicant/Owner: City of Newport Beach State: CA Sampling Point: WW 2A-15  
 Investigator(s): Julie Stout, Tommy Molioo Section, Township, Range: Township 6 South, Range 10 West, Section 24  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 0  
 Subregion (LRR): C Lat: 33.630283 Long: -117.880364 Datum: NAD 83  
 Soil Map Unit Name: Tidal flats NWI classification: PSSC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation X Soil X or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes x No       
 Are Vegetation      Soil      or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                         |                             |                                                  |                             |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------|-----------------------------|
| Hydrophytic Vegetation Present?                                                                                         | Yes <u>x</u> No <u>    </u> | <b>Is the Sampled Area<br/>within a Wetland?</b> | Yes <u>x</u> No <u>    </u> |
| Hydric Soil Present?                                                                                                    | Yes <u>x</u> No <u>    </u> |                                                  |                             |
| Wetland Hydrology Present?                                                                                              | Yes <u>x</u> No <u>    </u> |                                                  |                             |
| Remarks: <u>Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content.</u> |                             |                                                  |                             |
| <u>0</u>                                                                                                                |                             |                                                  |                             |

## VEGETATION – Use scientific names of plants.

| <u>Tree Stratum</u> (Plot size: <u>30' R</u> )          | Absolute<br>% Cover              | Dominant<br>Species? | Indicator<br>Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species<br>That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Number of Dominant Species<br>Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That<br>Are OBL, FACW, or FAC <u>50</u> (C)                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------|----------------------------------|----------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. <u>Schinus terebinthifolia</u>                       | <u>65</u>                        | <u>Y</u>             | <u>FAC</u>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u>65</u> = Total Cover                                 |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u> ) |                                  |                      |                     | <b>Prevalence Index worksheet:</b><br>Total % Cover of: Multiply by:<br>OBL species <u>30</u> x 1= <u>30</u><br>FACW species <u>5</u> x 2= <u>10</u><br>FAC species <u>65</u> x 3= <u>195</u><br>FACU species <u>    </u> x 4= <u>    </u><br>UPL species <u>    </u> x 5= <u>    </u><br>Column Totals: <u>100</u> (A) <u>235</u> (B)<br><br>Prevalence Index = B/A = <u>2.4</u>                                                                                                                                                                                                      |
| 1. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u>    </u> = Total Cover                               |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u>Herb Stratum</u> (Plot size: <u>5' R</u> )           |                                  |                      |                     | <b>Hydrophytic Vegetation Indicators:</b><br><u>    </u> 1- Rapid Test For Hydrophytic Vegetation<br><u>    </u> 2- Dominance Test is >50%<br><u>x</u> 3- Prevalence Index is ≤3.0 <sup>1</sup><br><u>    </u> 4- Morphological Adaptations <sup>1</sup> (Provide supporting<br>data in Remarks or on a separate sheet)<br><u>    </u> 5- Wetland Non-Vascular Plants <sup>1</sup><br><u>    </u> 6- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be<br>present, unless disturbed or problematic |
| 1. <u>Schoenoplectus californicus</u>                   | <u>30</u>                        | <u>Y</u>             | <u>OBL</u>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2. <u>Euthamia occidentalis</u>                         | <u>5</u>                         | <u>N</u>             | <u>FACW</u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 6. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 7. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 8. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 9. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 10. <u>    </u>                                         | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 11. <u>    </u>                                         | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u>35</u> = Total Cover                                 |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u>Woody Vine Stratum</u> (Plot size: <u>30' R</u> )    |                                  |                      |                     | <b>Hydrophytic<br/>Vegetation<br/>Present?</b> Yes <u>x</u> No <u>    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2. <u>    </u>                                          | <u>    </u>                      | <u>    </u>          | <u>    </u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u>    </u> = Total Cover                               |                                  |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| % Bare Ground in Herb Stratum <u>20</u>                 | % Cover of Biotic Crust <u>0</u> |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

Remarks:

NL = Not listed. Indicates species described in literature as a wetland species for which a wetland indicator status is not provided in the 2016 Wetland Plant List.

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |               |     |                |    |                   |                  |            |         |
|---------------------------------------------------------------------------------------------------------------------|---------------|-----|----------------|----|-------------------|------------------|------------|---------|
| Depth<br>(inches)                                                                                                   | Matrix        |     | Redox Features |    |                   |                  | Texture    | Remarks |
|                                                                                                                     | Color (moist) | %   | Color (moist)  | %  | Type <sup>1</sup> | Loc <sup>2</sup> |            |         |
| 0-4                                                                                                                 | 10YR 3/2      | 100 |                |    |                   |                  | clay loam  |         |
| 4-14                                                                                                                | 5Y 4/1        | 70  | 10YR 4/6       | 30 | C                 | M                | clay loam  |         |
| 14-18                                                                                                               | 2.5Y 3/2      | 70  | 10YR 4/6       | 30 | C                 | M                | loamy sand |         |
| 18-24                                                                                                               | 10Y 2.5/1     | 80  | 10YR 4/6       | 20 | C                 | M                | clay loam  |         |
|                                                                                                                     |               |     |                |    |                   |                  |            |         |
|                                                                                                                     |               |     |                |    |                   |                  |            |         |
|                                                                                                                     |               |     |                |    |                   |                  |            |         |
|                                                                                                                     |               |     |                |    |                   |                  |            |         |

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) |                                                          | Indicators for Problematic Hydric Soils:            |
|---------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Redox (S5)                | <input type="checkbox"/> 1 cm Muck (A9) (LRR C)     |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input type="checkbox"/> Stripped Matrix (S6)            | <input type="checkbox"/> 2 cm Muck (A10) (LRR B)    |
| <input type="checkbox"/> Black Histic (A3)                                | <input type="checkbox"/> Loamy Mucky Mineral (F1)        | <input type="checkbox"/> Reduced Vertic (F18)       |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        | <input type="checkbox"/> Red Parent Material (TF2)  |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)                   | <input checked="" type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)                           | <input type="checkbox"/> Redox Dark Surface (F6)         |                                                     |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)                | <input type="checkbox"/> Depleted Dark Surface (F7)      |                                                     |
| <input type="checkbox"/> Thick Dark Surface (A12)                         | <input type="checkbox"/> Redox Depressions (F8)          |                                                     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                         | <input type="checkbox"/> Vernal Pools (F9)               |                                                     |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                         |                                                          |                                                     |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

|                                                                                |                                                                                                 |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Restrictive Layer (if present):</b><br>Type: _____<br>Depth (inches): _____ | <b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|

Remarks:  
Soils presumed hydric due to presence of hydrophytic vegetation and wetland hydrology. Redox potentially not observed due to saturation of soil within 4 inches of surface.

| HYDROLOGY                                                          |                                                                        |                                                                    |  |
|--------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------|--|
| <b>Wetland Hydrology Indicators:</b>                               |                                                                        |                                                                    |  |
| Primary Indicators (minimum of one required; check all that apply) |                                                                        | Secondary Indicators (2 or more required)                          |  |
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              | <input type="checkbox"/> Water Marks (B1) (Riverine)               |  |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            | <input type="checkbox"/> Sediment Deposits (B2) (Riverine)         |  |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   | <input type="checkbox"/> Drift Deposits (B3) (Riverine)            |  |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input checked="" type="checkbox"/> Drainage Patterns (B10)        |  |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2)               |  |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Crayfish Burrows (C8)                     |  |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |  |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Shallow Aquitard (D3)                     |  |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 | <input type="checkbox"/> Other (Explain in Remarks)                    | <input checked="" type="checkbox"/> FAC-Neutral Test (D5)          |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Field Observations:</b><br>Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): _____<br>Water Table Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): 20<br>Saturation Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): 18<br>(includes capillary fringe) | <b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

|                                                                                             |  |                                                                              |  |                                 |  |
|---------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|---------------------------------|--|
| Project/Site: <u>Big Canyon Phase 2A</u>                                                    |  | City/County: <u>Newport Beach/Orange</u>                                     |  | Sampling Date: <u>3/27/2018</u> |  |
| Applicant/Owner: <u>City of Newport Beach</u>                                               |  | State: <u>CA</u>                                                             |  | Sampling Point: <u>WW2A-16</u>  |  |
| Investigator(s): <u>Julie Stout, Tommy Molioo</u>                                           |  | Section, Township, Range: <u>Township 6 South, Range 10 West, Section 24</u> |  |                                 |  |
| Landform (hillslope, terrace, etc.): _____                                                  |  | Local relief (concave, convex, none): <u>convex</u>                          |  | Slope (%): <u>0</u>             |  |
| Subregion (LRR): <u>C</u>                                                                   |  | Lat: <u>33.6304</u>                                                          |  | Long: <u>-117.880359</u>        |  |
| Datum: <u>NAD 83</u>                                                                        |  |                                                                              |  |                                 |  |
| Soil Map Unit Name: <u>Tidal flats</u>                                                      |  | NW1 classification: <u>PSSC</u>                                              |  |                                 |  |
| Are climatic / hydrologic conditions on the site typical for this time of year?             |  | Yes <u>X</u> No <u>    </u>                                                  |  | (If no, explain in Remarks.)    |  |
| Are Vegetation <u>X</u> Soil <u>X</u> or Hydrology <u>    </u> significantly disturbed?     |  | Are "Normal Circumstances" present?                                          |  | Yes <u>x</u> No <u>    </u>     |  |
| Are Vegetation <u>    </u> Soil <u>    </u> or Hydrology <u>    </u> naturally problematic? |  | (If needed, explain any answers in Remarks.)                                 |  |                                 |  |

|                                                                                                                  |     |          |    |                 |                                                  |     |          |    |                 |
|------------------------------------------------------------------------------------------------------------------|-----|----------|----|-----------------|--------------------------------------------------|-----|----------|----|-----------------|
| Hydrophytic Vegetation Present?                                                                                  | Yes | <u>x</u> | No | <u>        </u> | <b>Is the Sampled Area<br/>within a Wetland?</b> | Yes | <u>x</u> | No | <u>        </u> |
| Hydric Soil Present?                                                                                             | Yes | <u>x</u> | No | <u>        </u> |                                                  |     |          |    |                 |
| Wetland Hydrology Present?                                                                                       | Yes | <u>x</u> | No | <u>        </u> |                                                  |     |          |    |                 |
| Remarks: Site has been disturbed by placement of fill from Newport Bay dredging. Soils have a high salt content. |     |          |    |                 |                                                  |     |          |    |                 |
| 0                                                                                                                |     |          |    |                 |                                                  |     |          |    |                 |

| Tree Stratum (Plot size: 30' R )          |                                |  | Absolute<br>% Cover       | Dominant<br>Species? | Indicator<br>Status |
|-------------------------------------------|--------------------------------|--|---------------------------|----------------------|---------------------|
| 1.                                        | <i>Schinus terebinthifolia</i> |  | 80                        | Y                    | FAC                 |
| 2.                                        |                                |  |                           |                      |                     |
| 3.                                        |                                |  |                           |                      |                     |
| 4.                                        |                                |  |                           |                      |                     |
|                                           |                                |  | 80                        | = Total Cover        |                     |
| Sapling/Shrub Stratum (Plot size: 30' R ) |                                |  |                           |                      |                     |
| 1.                                        | <i>Schinus terebinthifolia</i> |  | 5                         | Y                    | FAC                 |
| 2.                                        |                                |  |                           |                      |                     |
| 3.                                        |                                |  |                           |                      |                     |
| 4.                                        |                                |  |                           |                      |                     |
| 5.                                        |                                |  |                           |                      |                     |
|                                           |                                |  | 5                         | = Total Cover        |                     |
| Herb Stratum (Plot size: 5' R )           |                                |  |                           |                      |                     |
| 1.                                        |                                |  |                           |                      |                     |
| 2.                                        |                                |  |                           |                      |                     |
| 3.                                        |                                |  |                           |                      |                     |
| 4.                                        |                                |  |                           |                      |                     |
| 5.                                        |                                |  |                           |                      |                     |
| 6.                                        |                                |  |                           |                      |                     |
| 7.                                        |                                |  |                           |                      |                     |
| 8.                                        |                                |  |                           |                      |                     |
| 9.                                        |                                |  |                           |                      |                     |
| 10.                                       |                                |  |                           |                      |                     |
| 11.                                       |                                |  |                           |                      |                     |
|                                           |                                |  |                           | = Total Cover        |                     |
| Woody Vine Stratum (Plot size: 30' R )    |                                |  |                           |                      |                     |
| 1.                                        |                                |  |                           |                      |                     |
| 2.                                        |                                |  |                           |                      |                     |
|                                           |                                |  |                           | = Total Cover        |                     |
| % Bare Ground in Herb Stratum 13          |                                |  | % Cover of Biotic Crust 0 |                      |                     |

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC 100 (C)

**Prevalence Index worksheet:**

| Total % Cover of:     | Multiply by: |
|-----------------------|--------------|
| OBL species           | x 1=         |
| FACW species          | x 2=         |
| FAC species 85        | x 3= 255     |
| FACU species          | x 4=         |
| UPL species           | x 5=         |
| Column Totals: 85 (A) | 255 (B)      |

Prevalence Index = B/A = 3.0

**Hydrophytic Vegetation Indicators:**

1- Rapid Test For Hydrophytic Vegetation

x 2- Dominance Test is >50%

x 3- Prevalence Index is ≤3.0<sup>1</sup>

4- Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

5- Wetland Non-Vascular Plants<sup>1</sup>

6- Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Hydrophytic Vegetation Present?**

| Yes | x | No |
|-----|---|----|
|     |   |    |

Remarks:

NL = Not listed. Indicates species described in literature as a wetland species for which a wetland indicator status is not provided in the 2016 Wetland Plant List.

Sampling Point: WW2A-16

Arid West - Version 2.0

## APPENDIX B

### **Pre-Project Riverine CRAM Report**

# PRE-CONSTRUCTION RIVERINE CALIFORNIA RAPID ASSESSMENT METHOD (CRAM) REPORT

## Big Canyon Coastal Habitat Restoration and Adaptation Project Phase 2A

April 2018

Prepared for  
Newport Bay Conservancy

Prepared by  
Environmental Science Associates



# TABLE OF CONTENTS

---

## BIG CANYON COASTAL HABITAT RESTORATION & ADAPTATION PROJECT PHASE 2A Pre-Construction Riverine California Rapid Assessment Method (CRAM) Report

### Contents

|                                           |    |
|-------------------------------------------|----|
| 1.0 Introduction.....                     | 3  |
| 1.1 Project Overview .....                | 3  |
| 1.2 Purpose .....                         | 3  |
| 1.3 CRAM Analysis Description .....       | 5  |
| 2.0 Methods.....                          | 5  |
| 3.0 Results and Discussion .....          | 5  |
| 4.0 Conclusions and Recommendations ..... | 10 |

### Appendices

Appendix A. Site Photographs

Appendix B. Datasheets

### List of Tables

|                                       |   |
|---------------------------------------|---|
| Table 1. Summary of CRAM Scores ..... | 8 |
|---------------------------------------|---|

### List of Figures

|                                       |   |
|---------------------------------------|---|
| Figure 1. Regional Location Map ..... | 4 |
| Figure 2. Assessment Area Map .....   | 7 |

This page intentionally left blank



# 1.0 Introduction

## 1.1 Project Overview

The Big Canyon Coastal Habitat Restoration and Adaptation Project Phase 2A (Project) is located in the City of Newport Beach, east of Newport Bay, adjacent to Jamboree Road (Figure 1). The Project is part of a larger proposed multi-phased Big Canyon Watershed Restoration and Coastal Adaption Project (Phases I and II) that has been planned for over a decade. This planned effort provides integrated-benefits that include water quality improvements in Big Canyon Creek, restoration of natural creek channels impacted by hydromodification, restoration of riparian and inland alkaline non-tidal marsh habitat, removal of non-native vegetation and replacement with native plantings, remediation of selenium-laden sediment within former fresh-water ponds, creation of new transitional habitat to allow for future adaption of coastal estuarine habitat due to sea level rise, reduction of favorable mosquito breeding habitat, and improvements and protection of public access within the natural areas of the Big Canyon Preserve, including coastal areas that will be subject to future inundation due to sea level rise.

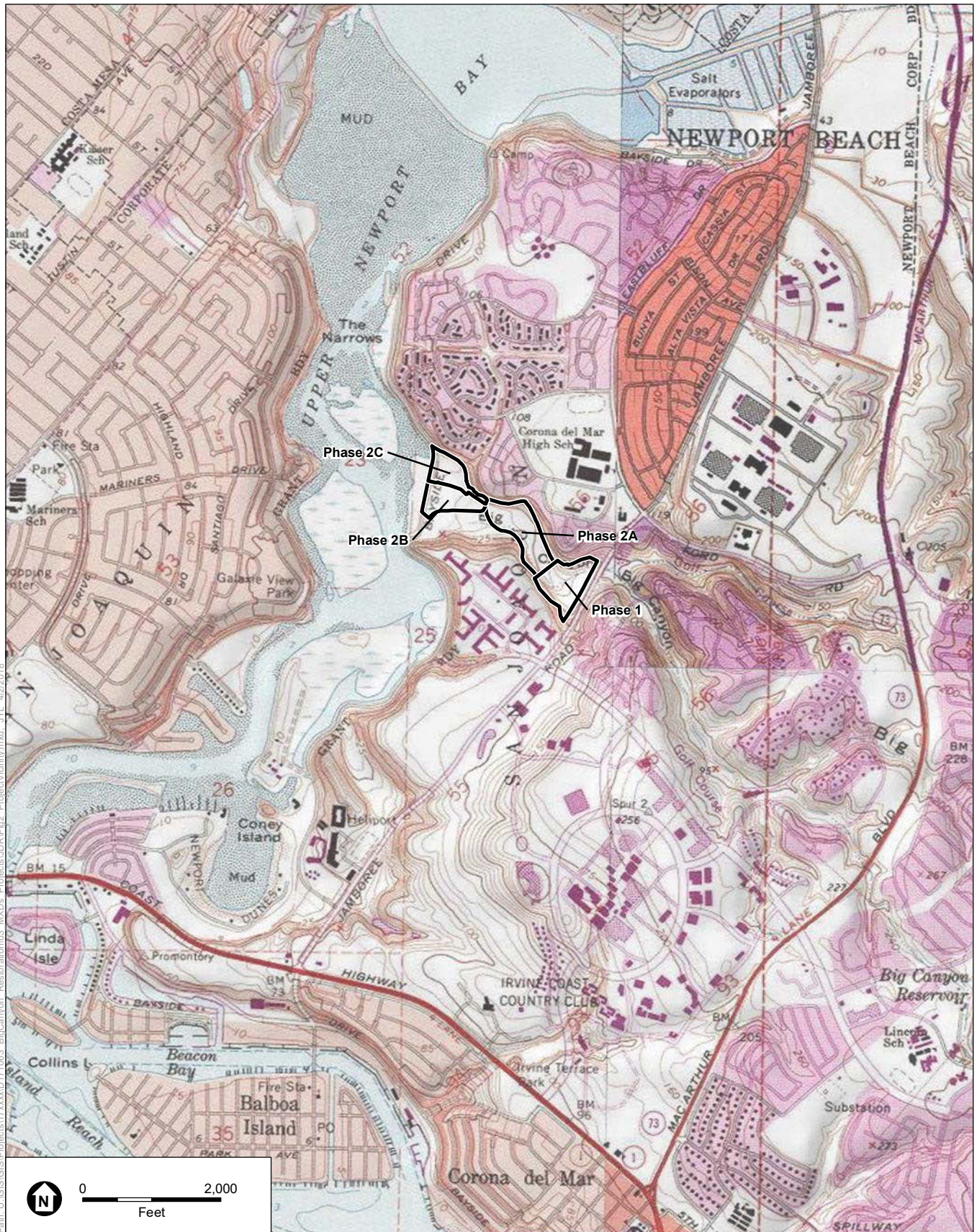
These benefits will be realized through implementation of a phased program. Phase I, the current Project, includes the implementation of a creek and riparian habitat restoration, stormwater treatment wetland, dry weather flow diversions, culvert improvements, and trail planning in the upper portion of the Big Canyon Nature Preserve. Phase 2A is also part of the current Project and continues to build on the benefits to be achieved through Phase I. Phase 2A includes finalizing the riparian restoration to the west of the creek restoration.

Phase I and Phase IIA improvements are being planned in coordination with a Resource Management and Maintenance Plan (RRMP) being prepared by the Irvine Ranch Conservancy under contract with the City of Newport Beach for the Nature Park. The RRMP provides a framework for restoration and recreational improvements in the Nature Park that will be consistent with the requirements of the Natural Community Conservation Plan/Habitat Conservation Plan (NCCP) for the Central and Coastal sub-region of Orange County in the event the City elects to incorporate the Nature Park into the NCCP.

## 1.2 Purpose

The purpose of this report is to document the results of a riverine California Rapid Assessment Method (CRAM) assessment that was conducted to evaluate the pre-construction condition of Big Canyon Creek in the Project area. Comparing these results to post-construction CRAM data will illustrate the functional improvements of the riparian area resulting from the habitat restoration and water quality improvements onsite.





SOURCE: USGS 7.5' Topo Quad Newport Beach 1977

Big Canyon Restoration - Phase 2A

**Figure 1**  
Project Vicinity



## 1.3 CRAM Analysis Description

CRAM was developed by a consortium of local, state and federal agencies, wetland scientists, land managers and regulators as a means to monitor the conditions of wetlands in California. As described in the *California Rapid Assessment Method for Wetlands and Riparian Areas User's Manual, Version 6.1* (CWMW, 2013), the overall goal of CRAM is to “provide rapid, scientifically defensible, standardized, cost-effective assessments of the status and trends in the condition of wetlands and the performance of related policies, programs and projects throughout California.”

## 2.0 Methods

The CRAM assessment was conducted by ESA biologists Tommy Molioo and Julie Stout on March 26, 2018 following the *Riverine Wetlands Field Book, Version 6.1* (CWMW 2013<sup>1</sup>). One Assessment Area (AA) was delineated within the non-confined riverine wetland in the Phase 2A project site (Figure 2). The AA extends downstream approximately 100 meters from the confluence of a tributary to Big Canyon Creek, and continues downstream until it reaches a tree canopy and hydrologic break at a paved Arizona crossing and pedestrian path. The width of the AA is generally uniform with an approximate width of 25 meters throughout, and encompasses the associated pepper tree canopy that contributes allocthonous material to Big Canyon Creek. Due to the width of the large floodplain within Phase 2A, the lateral extent of the AA was determined based on an area two times the bankfull width on each side of the channel.

The following wetland attributes were assessed: Buffer and Landscape Context, Hydrology, Physical Structure and Biotic Structure. Each attribute is based on the values of individual metrics. A rating of A, B, C, or D was given for each metric pursuant to the *Riverine Wetlands Field Book*, and then converted to a numeric value (A=12, B=9, C=6, and D=3). These numeric values were then used to calculate attribute scores and overall CRAM scores.

## 3.0 Results and Discussion

As shown in Table 2, the overall CRAM score for the pre-construction AA was low (64). It is not uncommon to have low CRAM scores for riverine systems in southern California because CRAM has been calibrated for the entire state, including northern California, which has much higher rainfall, resulting in more developed riverine systems (e.g., more robust and diverse riparian vegetation, and greater landscape connectivity). When assessing CRAM scores, it is most informative to assess the attribute scores and metrics individually, as discussed below, as it

---

<sup>1</sup> California Wetlands Monitoring Workgroup (CWMW). 2013. *California Rapid Assessment Method Riverine Wetlands Field Book*. Version 6.1. January 2013.

allows for an examination of individual parameters that affect the overall condition of the wetland. Photographs of the AAs are included in Appendix A, and datasheets are included in Appendix B.



SOURCE: ESRI; Digital Globe 10/21/2016

Big Canyon Restoration - Phase 2A

**Figure 2**  
CRAM Assessment Area 2A

**TABLE 1. SUMMARY OF CRAM SCORES**

| <b>Attributes and Metrics</b>       | <b>Score<sup>1</sup></b> |
|-------------------------------------|--------------------------|
| <b>Buffer and Landscape Context</b> | <b>79.7</b>              |
| Stream Corridor Continuity          | A                        |
| Buffer Submetrics                   |                          |
| % of AA with Buffer                 | A                        |
| Average Buffer Width                | C                        |
| Buffer Condition                    | C                        |
| <b>Hydrology</b>                    | <b>83.3</b>              |
| Water Source                        | C                        |
| Channel Stability                   | A                        |
| Hydrologic Connectivity             | A                        |
| <b>Physical Structure</b>           | <b>75.0</b>              |
| Structural Patch Richness           | B                        |
| Topographic Complexity              | B                        |
| <b>Biotic Structure</b>             | <b>25</b>                |
| Plant Community Submetrics          |                          |
| No. of Plant Layers                 | D                        |
| No. of Co-dominants                 | D                        |
| Percent Invasion                    | D                        |
| Horizontal Interspersion            | D                        |
| Vertical Biotic Structure           | D                        |
| <b>Overall AA Score</b>             | <b>65.7</b>              |

<sup>1</sup> Metrics (i.e. stream corridor continuity, water source, etc.) are scored A through D with A representing the highest/best score and D representing the lowest. The metrics scores are given weighted values and used to calculate the scores for each attribute (i.e. buffer and landscape context, hydrology, etc.). Attributes are scored as a percentage out of 100.

1. **Buffer and Landscape Context.** The Buffer and Landscape Context attribute scored moderately at 80 percent. This attribute consists of stream corridor continuity, percent of AA with buffer, average buffer width, and buffer condition. Stream corridor continuity is a measure of the continuity of the stream corridor over a distance of 500 meters upstream and downstream of the AA. In addition to measuring the spatial association with other areas of aquatic resources and overall health of the riverine

system, this metric takes into account the ability of wildlife to move into, out of, and along the stream corridor along the upstream and downstream portions. This metric scored highly for stream corridor continuity and presence of buffer but scored low for buffer width and buffer condition due to the presence of development surrounding the canyon and predominance of invasive peppertree within the buffer. While the buffer width would not be changed by the project, buffer condition would be improved by removal of invasive species as has the potential to score an A or B.

2. **Hydrology.** The AA scored moderately for the Hydrology attribute. The AA scored highly for channel stability and hydrologic connectivity but the overall attribute score was reduced by the low score for water source. The channel received a low score for this metric due to developed areas comprising the majority of the surrounding drainage basin and the channel's primary water source being urban runoff. The project would not improve the water source metric or hydrology attribute. Removal of invasive species has the potential to temporarily reduce the score for the channel stability metric. Erosion and degradation factors are reduced by the roots of invasive peppertrees. If peppertrees are removed, channel stability could be reduced until native vegetation becomes established and provides the same function.
3. **Physical Structure.** The AA scored moderately for the Physical Structure attribute based on moderate scores for both structural patch richness and topographic complexity. Structural patch richness evaluates the level of heterogeneity in the habitat by assessing the number of different patch types. Topographic complexity evaluates the micro- and macro-topographic relief and variety of elevations due to physical and abiotic features and elevation gradients that affect moisture gradients or than influence the path of flowing water. The project could result in a minor improvement to the Physical Structure attribute by providing the potential for more structural patch types and increased microtopography.
4. **Biotic Structure.** The AA received the lowest possible score for the Biotic Structure attribute. This attribute is based on plant community metrics (number of plant layers, number of co-dominants, and percent invasion by non-native species), horizontal interspersions, and vertical biotic structure. Like physical structure, this attribute evaluates the heterogeneity of the habitat but rather than physical structure, it assesses the biological heterogeneity by looking at plant diversity, levels of interspersions of patch types (more edges along different patch types results in a more diverse habitat), and levels of vertical overlap between plant layers. The low score of this attribute is due to the heavy infestation by non-native Brazilian peppertrees. This attribute has potential for significant improvement through project implementation.

## 4.0 Conclusions and Recommendations

The AA within the project area scored fairly low overall, mainly due to a very low score for the Biotic Structure attribute. Other low-scoring metrics such as buffer width and water source are reflective of the highly urbanized environment of the project area and cannot be changed. However, the project is expected to significantly improve the scores for all Biotic Structure metrics by greatly reducing the presence of invasive species and allowing for increased plant community diversity and structural variation in vegetation. It is recommended that a CRAM assessment be conducted after the project is complete, especially after the restoration has become self-sustaining, to measure the functional improvement of the habitat within the project area.

If CRAM scores are included in success criteria for the mitigation project, it is recommended that these criteria be based only on the Biotic Structure Attribute. This is because the Buffer and Landscape Context and Hydrology Attributes are affected by offsite factors and factors outside of the scope of the project and it is unknown whether improving the Physical Structure attribute is implementable based on site conditions. Table 2 below provides a recommended score for Year 5 of mitigation and monitoring. Scores of A are expected for the Number of Co-dominants and Percent Invasion submetrics due to removal of invasive species and replanting with a diverse plant palette. Scores of B are expected for No. of Plant Layers and Vertical Biotic Structure because planted native trees and shrubs are not expected to have reached maximum size or full structural development by Year 5. A Score of B is also expected for the Horizontal Interspersion Attribute based on the quantity and interspersion of plant zones that could be created by restoration within the given AA.

**TABLE 2. RECOMMENDED YEAR 5 SUCCESS CRITERIA**

|                            | <b>Baseline<br/>Score</b> | <b>Year 5<br/>Score</b> |
|----------------------------|---------------------------|-------------------------|
| <b>Biotic Structure</b>    | <b>25</b>                 | <b>81</b>               |
| Plant Community Submetrics |                           |                         |
| No. of Plant Layers        | D                         | B                       |
| No. of Co-dominants        | D                         | A                       |
| Percent Invasion           | D                         | A                       |
| Horizontal Interspersion   | D                         | B                       |
| Vertical Biotic Structure  | D                         | B                       |



# Appendix A

---

## Site Photographs



1 - Taken at the upstream end of the AA, facing downstream.



2 - Taken near the middle of the AA, facing upstream. Note wide active floodplain.



3 - Taken near the downstream end of the AA, facing upstream.



4 - Taken at the downstream extent of the AA, facing upstream.

This page intentionally left blank

# **Appendix B**

---

## **CRAM Datasheets**

## Basic Information Sheet: Riverine Wetlands

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>Assessment Area Name:</b> 2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |
| <b>Project Name:</b> Big Canyon Phase 2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |
| <b>Assessment Area ID #:</b> 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |
| <b>Project ID #:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Date:</b> 3/26/2018         |
| <b>Assessment Team Members for This AA:</b><br><br>Tommy Molioo, Julie Stout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |
| <b>Average Bankfull Width:</b> 5'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |
| <b>Approximate Length of AA</b> (10 times bankfull width, min 100 m, max 200 m): 100 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |
| <b>Upstream Point Latitude:</b> 33.631072°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Longitude:</b> -117.880896° |
| <b>Downstream Point Latitude:</b> 33.631329°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Longitude:</b> -117.881973° |
| <b>Wetland Sub-type:</b><br><br><div style="text-align: center;"> <input type="checkbox"/> Confined      <input type="checkbox"/> Non-confined         </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |
| <b>AA Category:</b><br><br><input type="checkbox"/> Restoration <input type="checkbox"/> Mitigation <input type="checkbox"/> Impacted <input type="checkbox"/> Ambient <input type="checkbox"/> Reference <input type="checkbox"/> Training<br><br><input type="checkbox"/> Other:                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |
| <b>Did the river/stream have flowing water at the time of the assessment?</b> <input type="checkbox"/> yes <input type="checkbox"/> no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |
| <b>What is the apparent hydrologic flow regime of the reach you are assessing?</b><br><br><p>The hydrologic flow regime of a stream describes the frequency with which the channel conducts water. <i>Perennial</i> streams conduct water all year long, whereas <i>ephemeral</i> streams conduct water only during and immediately following precipitation events. <i>Intermittent</i> streams are dry for part of the year, but conduct water for periods longer than ephemeral streams, as a function of watershed size and water source.</p> <div style="text-align: center;"> <input type="checkbox"/> perennial      <input type="checkbox"/> intermittent      <input type="checkbox"/> ephemeral         </div> |                                |

**Photo Identification Numbers and Description:**

|    | Photo ID No. | Description   | Latitude   | Longitude    | Datum |
|----|--------------|---------------|------------|--------------|-------|
| 1  | 1            | Upstream      | 33.631122° | -117.880967° |       |
| 2  | 2            | Middle Right  | 33.631180° | -117.881464° |       |
| 3  |              | Middle Left   |            |              |       |
| 4  | 3            | Downstream    | 33.631311° | -117.881844° |       |
| 5  | 4            | Downstream En | 33.631329° | -117.881973° |       |
| 6  |              |               |            |              |       |
| 7  |              |               |            |              |       |
| 8  |              |               |            |              |       |
| 9  |              |               |            |              |       |
| 10 |              |               |            |              |       |

**Site Location Description:**

This AA is located in an area dominated by a monoculture of Brazilian pepper tree that forms a dense, closed canopy. Flowing water occurs in the entrenched channel with evidence of overflow during flood events on a very wide active flood plain.

**Comments:**

## Scoring Sheet: Riverine Wetlands

|                                                                                  |                                                                       |          |         |                                                               |        |  |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------|---------|---------------------------------------------------------------|--------|--|
| <b>AA Name:</b> 2A-1                                                             |                                                                       |          |         | <b>Date:</b> 3/26/18                                          |        |  |
| <b>Attribute 1: Buffer and Landscape Context (pp. 11-19)</b>                     |                                                                       |          |         | <b>Comments</b>                                               |        |  |
| Stream Corridor Continuity (D)                                                   |                                                                       | Alpha.   | Numeric |                                                               |        |  |
|                                                                                  |                                                                       | <b>A</b> | 12      |                                                               |        |  |
| Buffer:                                                                          |                                                                       |          |         |                                                               |        |  |
| <i>Buffer submetric A:<br/>Percent of AA with Buffer</i>                         | Alpha.                                                                |          |         | Numeric                                                       |        |  |
|                                                                                  | <b>A</b>                                                              |          |         | 12                                                            |        |  |
| <i>Buffer submetric B:<br/>Average Buffer Width</i>                              | <b>C</b>                                                              |          |         | 6                                                             |        |  |
| <i>Buffer submetric C:<br/>Buffer Condition</i>                                  | <b>C</b>                                                              | 6        |         |                                                               |        |  |
| <b>Raw Attribute Score</b> = $D + [C \times (A \times B)^{1/2}]^{1/2}$           |                                                                       |          | 19      | <b>Final Attribute Score =</b><br><b>(Raw Score/24) x 100</b> | 79.73% |  |
| <b>Attribute 2: Hydrology (pp. 20-26)</b>                                        |                                                                       |          |         |                                                               |        |  |
| Water Source                                                                     |                                                                       | Alpha.   | Numeric |                                                               |        |  |
|                                                                                  |                                                                       | <b>C</b> | 6       |                                                               |        |  |
| Channel Stability                                                                |                                                                       | <b>A</b> | 12      |                                                               |        |  |
| Hydrologic Connectivity                                                          |                                                                       | <b>A</b> | 12      |                                                               |        |  |
| <b>Raw Attribute Score</b> = sum of numeric scores                               |                                                                       |          | 30      | <b>Final Attribute Score =</b><br><b>(Raw Score/36) x 100</b> | 83.33% |  |
| <b>Attribute 3: Physical Structure (pp. 27-33)</b>                               |                                                                       |          |         |                                                               |        |  |
| Structural Patch Richness                                                        |                                                                       | Alpha.   | Numeric |                                                               |        |  |
|                                                                                  |                                                                       | <b>B</b> | 9       |                                                               |        |  |
| Topographic Complexity                                                           |                                                                       | <b>B</b> | 9       |                                                               |        |  |
| <b>Raw Attribute Score</b> = sum of numeric scores                               |                                                                       |          | 18      | <b>Final Attribute Score =</b><br><b>(Raw Score/24) x 100</b> | 75.00% |  |
| <b>Attribute 4: Biotic Structure (pp. 34-41)</b>                                 |                                                                       |          |         |                                                               |        |  |
| Plant Community Composition (based on sub-metrics A-C)                           |                                                                       |          |         |                                                               |        |  |
| <i>Plant Community submetric A:<br/>Number of plant layers</i>                   | Alpha.                                                                | Numeric  |         |                                                               |        |  |
|                                                                                  | <b>D</b>                                                              | 3        |         |                                                               |        |  |
|                                                                                  | <i>Plant Community submetric B:<br/>Number of Co-dominant species</i> | <b>D</b> |         | 3                                                             |        |  |
| <i>Plant Community submetric C:<br/>Percent Invasion</i>                         | <b>D</b>                                                              | 3        |         |                                                               |        |  |
| Plant Community Composition Metric<br><i>(numeric average of submetrics A-C)</i> |                                                                       |          | 3       |                                                               |        |  |
| Horizontal Interspersion                                                         |                                                                       | <b>D</b> | 3       |                                                               |        |  |
| Vertical Biotic Structure                                                        |                                                                       | <b>D</b> | 3       |                                                               |        |  |
| <b>Raw Attribute Score</b> = sum of numeric scores                               |                                                                       |          | 9       | <b>Final Attribute Score =</b><br><b>(Raw Score/36) x 100</b> | 25.00% |  |
| <b>Overall AA Score</b> (average of four final Attribute Scores)                 |                                                                       |          |         | 65.77%                                                        |        |  |

## Worksheet for Stream Corridor Continuity Metric for Riverine Wetlands

| Lengths of Non-buffer Segments For Distance of 500 m Upstream of AA |            |        | Lengths of Non-buffer Segments For Distance of 500 m Downstream of AA |            |        |
|---------------------------------------------------------------------|------------|--------|-----------------------------------------------------------------------|------------|--------|
| Segment No.                                                         | Length (m) |        | Segment No.                                                           | Length (m) |        |
|                                                                     | 1-side     | 2-side |                                                                       | 1-side     | 2-side |
| 1                                                                   | 10         | 10     | 1                                                                     |            |        |
| 2                                                                   | 10         | 10     | 2                                                                     |            |        |
| 3                                                                   |            |        | 3                                                                     |            |        |
| 4                                                                   |            |        | 4                                                                     |            |        |
| 5                                                                   |            |        | 5                                                                     |            |        |
| Upstream Total Length                                               | 40         |        | Downstream Total Length                                               |            |        |

### Percent of AA with Buffer Worksheet

In the space provided below make a quick sketch of the AA, or perform the assessment directly on the aerial imagery; indicate where buffer is present, estimate the percentage of the AA perimeter providing buffer functions, and record the estimate amount in the space provided.



Percent of AA with Buffer: 100 %

### Worksheet for calculating average buffer width of AA

| <input type="checkbox"/> Two Sided AA |                  |
|---------------------------------------|------------------|
| Line                                  | Buffer Width (m) |
| A                                     | 10               |
| B                                     | 50               |
| C                                     | 80               |
| D                                     | 60               |
| E                                     | 250              |
| F                                     | 80               |
| G                                     | 150              |
| H                                     | 200              |
| Average Buffer Width*                 | 110              |

\*Round to the nearest integer

| <input type="checkbox"/> One Sided AA |                  |
|---------------------------------------|------------------|
| Line                                  | Buffer Width (m) |
| A                                     |                  |
| B                                     |                  |
| C                                     |                  |
| D                                     |                  |
| Average Buffer Width*                 | 0                |

\*Round to the nearest integer

## Worksheet for Assessing Channel Stability for Riverine Wetlands

| Condition                         | Field Indicators<br>(check all existing conditions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indicators of Channel Equilibrium | <input checked="" type="checkbox"/> The channel (or multiple channels in braided systems) has a well-defined bankfull contour that clearly demarcates an obvious active floodplain in the cross-sectional profile of the channel throughout most of the AA.<br><input type="checkbox"/> Perennial riparian vegetation is abundant and well established along the bankfull contour, but not below it.<br><input type="checkbox"/> There is leaf litter, thatch, or wrack in most pools (if pools are present).<br><input checked="" type="checkbox"/> The channel contains embedded woody debris of the size and amount consistent with what is naturally available in the riparian area.<br><input type="checkbox"/> There is little or no active undercutting or burial of riparian vegetation.<br><input type="checkbox"/> If mid-channel bars and/or point bars are present, they are not densely vegetated with perennial vegetation.<br><input type="checkbox"/> Channel bars consist of well-sorted bed material (smaller grain size on the top and downstream end of the bar, larger grain size along the margins and upstream end of the bar).<br><input checked="" type="checkbox"/> There are channel pools, the spacing between pools tends to be regular and the bed is not planar throughout the AA<br><input type="checkbox"/> The larger bed material supports abundant mosses or periphyton. |
| Indicators of Active Degradation  | <input type="checkbox"/> The channel is characterized by deeply undercut banks with exposed living roots of trees or shrubs.<br><input type="checkbox"/> There are abundant bank slides or slumps.<br><input type="checkbox"/> The lower banks are uniformly scoured and not vegetated.<br><input type="checkbox"/> Riparian vegetation is declining in stature or vigor, or many riparian trees and shrubs along the banks are leaning or falling into the channel.<br><input type="checkbox"/> An obvious historical floodplain has recently been abandoned, as indicated by the age structure of its riparian vegetation.<br><input type="checkbox"/> The channel bed appears scoured to bedrock or dense clay.<br><input type="checkbox"/> Recently active flow pathways appear to have coalesced into one channel (i.e. a previously braided system is no longer braided).<br><input type="checkbox"/> The channel has one or more knickpoints indicating headward erosion of the bed.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Indicators of Active Aggradation  | <input checked="" type="checkbox"/> There is an active floodplain with fresh splays of coarse sediment (sand and larger that is not vegetated) deposited in the current or previous year.<br><input checked="" type="checkbox"/> There are partially buried living tree trunks or shrubs along the banks.<br><input type="checkbox"/> The bed is planar (flat or uniform gradient) overall; it lacks well-defined channel pools, or they are uncommon and irregularly spaced.<br><input type="checkbox"/> There are partially buried, or sediment-choked, culverts.<br><input type="checkbox"/> Perennial terrestrial or riparian vegetation is encroaching into the channel or onto channel bars below the bankfull contour.<br><input type="checkbox"/> There are avulsion channels on the floodplain or adjacent valley floor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Overall                           | <input checked="" type="checkbox"/> <b>Equilibrium</b> <input type="checkbox"/> <b>Degradation</b> <input checked="" type="checkbox"/> <b>Aggradation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



### Riverine Wetland Entrenchment Ratio Calculation Worksheet

| The following 5 steps should be conducted for each of 3 cross-sections located in the AA at the approximate midpoints along straight riffles or glides, away from deep pools or meander bends. An attempt should be made to place them at the top, middle, and bottom of the AA. |                                                                                                                                                                                        |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|
| Steps                                                                                                                                                                                                                                                                            | Replicate Cross-sections                                                                             | TOP   | MID   | BOT   |
| 1 Estimate bankfull width.                                                                                                                                                                                                                                                       | This is a critical step requiring familiarity with field indicators of the bankfull contour. Estimate or measure the distance between the right and left bankfull contours.            | 4.40  | 4.35  | 3.96  |
| 2: Estimate max. bankfull depth.                                                                                                                                                                                                                                                 | Imagine a level line between the right and left bankfull contours; estimate or measure the height of the line above the thalweg (the deepest part of the channel).                     | 0.80  | 0.70  | 0.50  |
| 3: Estimate flood prone depth.                                                                                                                                                                                                                                                   | Double the estimate of maximum bankfull depth from Step 2.                                                                                                                             | 1.60  | 1.40  | 1.00  |
| 4: Estimate flood prone width.                                                                                                                                                                                                                                                   | Imagine a level line having a height equal to the flood prone depth from Step 3; note where the line intercepts the right and left banks; estimate or measure the length of this line. | 50.00 | 40.10 | 36.00 |
| 5: Calculate entrenchment ratio.                                                                                                                                                                                                                                                 | Divide the flood prone width (Step 4) by the bankfull width (Step 1).                                                                                                                  | 11.36 | 9.22  | 9.09  |
| 6: Calculate average entrenchment ratio.                                                                                                                                                                                                                                         | Calculate the average results for Step 5 for all 3 replicate cross-sections. Enter the average result here and use it in Table 13a or 13b.                                             |       |       | 9.89  |

### Structural Patch Type Worksheet for Riverine wetlands

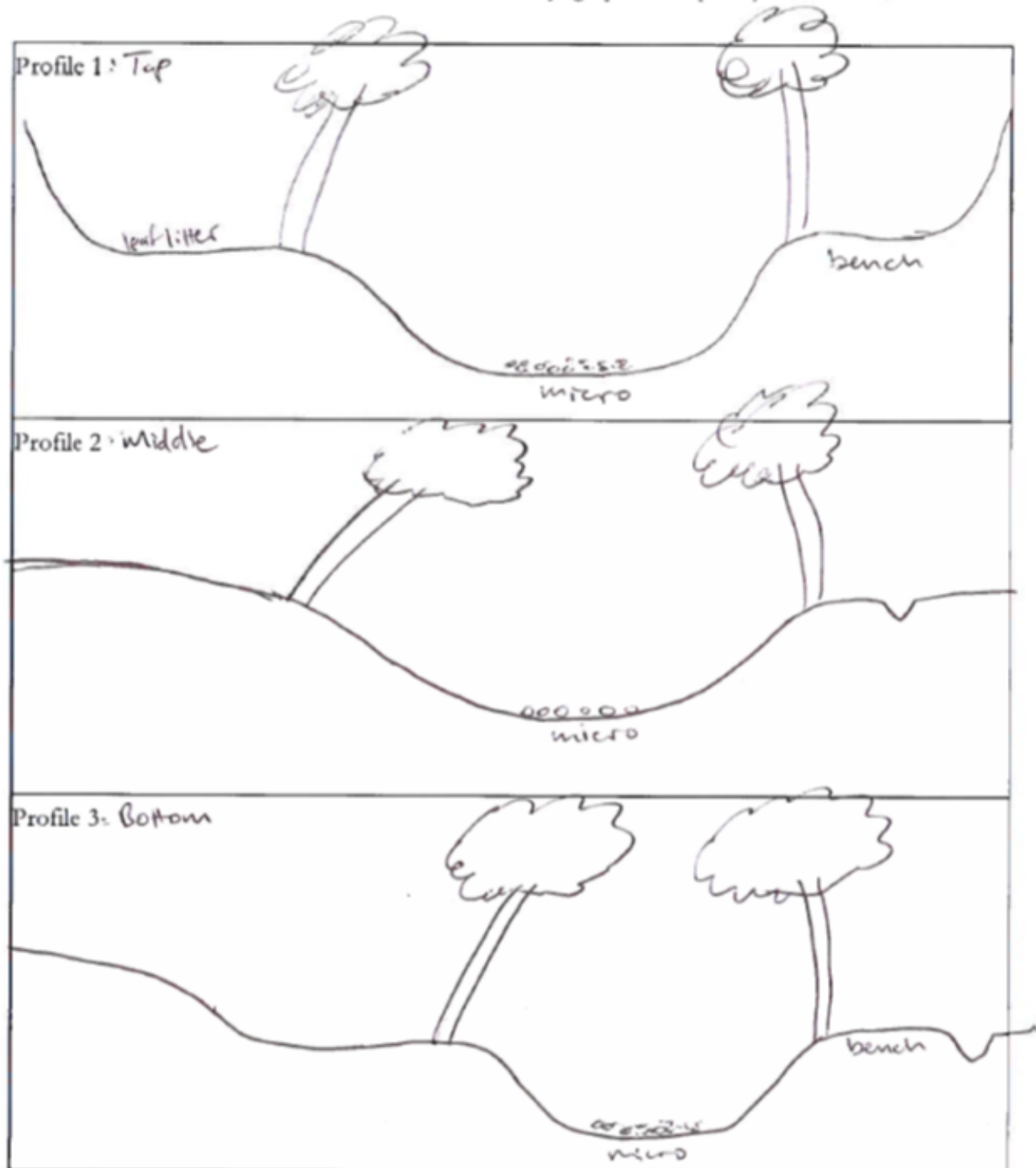
Circle each type of patch that is observed in the AA and enter the total number of observed patches in Table below. In the case of riverine wetlands, their status as confined or non-confined must first be determined (see page 6) to determine with patches are expected in the system (indicated by a “1” in the table below). Any feature onsite should only be counted once as a patch type. If a feature appears to meet the definition of more than one patch type (i.e. swale and secondary channel) the practitioner should choose which patch type best illustrates the feature. Not all features at a site will be patch types.

*\*Please refer to the CRAM Photo Dictionary at [www.cramwetlands.org](http://www.cramwetlands.org) for photos of each of the following patch types.*

| STRUCTURAL PATCH TYPE<br>(circle for presence)                                                  | Riverine<br>(Non-confined)          | Riverine<br>(Confined)   |
|-------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|
| <b>Minimum Patch Size</b>                                                                       | 3 m <sup>2</sup>                    | 3 m <sup>2</sup>         |
| Abundant wrackline or organic debris in channel, on floodplain                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Bank slumps or undercut banks in channels or along shoreline                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Cobbles and/or Boulders                                                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Debris jams                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/> |
| Filamentous macroalgae or algal mats                                                            | <input type="checkbox"/>            | <input type="checkbox"/> |
| Large woody debris                                                                              | <input type="checkbox"/>            | <input type="checkbox"/> |
| Pannes or pools on floodplain                                                                   | <input checked="" type="checkbox"/> | N/A                      |
| Plant hummocks and/or sediment mounds                                                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| Point bars and in-channel bars                                                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Pools or depressions in channels (wet or dry channels)                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Riffles or rapids (wet or dry channels)                                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Secondary channels on floodplains or along shorelines                                           | <input checked="" type="checkbox"/> | N/A                      |
| Standing snags (at least 3 m tall)                                                              | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Submerged vegetation                                                                            | <input type="checkbox"/>            | N/A                      |
| Swales on floodplain or along shoreline                                                         | <input checked="" type="checkbox"/> | N/A                      |
| Variegated, convoluted, or crenulated foreshore (instead of broadly arcuate or mostly straight) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Vegetated islands (mostly above high-water)                                                     | <input type="checkbox"/>            | N/A                      |
| <b>Total Possible</b>                                                                           | 17                                  | 12                       |
| <b>No. Observed Patch Types</b><br>(enter here and use in Table 14 below)                       | 11                                  | 0                        |

## Worksheet for AA Topographic Complexity

At three locations along the AA, make a sketch of the profile of the stream from the AA boundary down to its deepest area then back out to the other AA boundary. Try to capture the benches and the intervening micro-topographic relief. To maintain consistency, make drawings at each of the stream hydrologic connectivity measurements, always facing downstream. Include the water level, an arrow at the bankfull contour, and label the benches. Based on these sketches and the profiles in Figure 10, choose a description in Table 16 that best describes the overall topographic complexity of the AA.\



**Plant Community Metric Worksheet: Co-dominant species richness for Riverine wetlands**  
**(A dominant species represents  $\geq 10\%$  *relative* cover)**

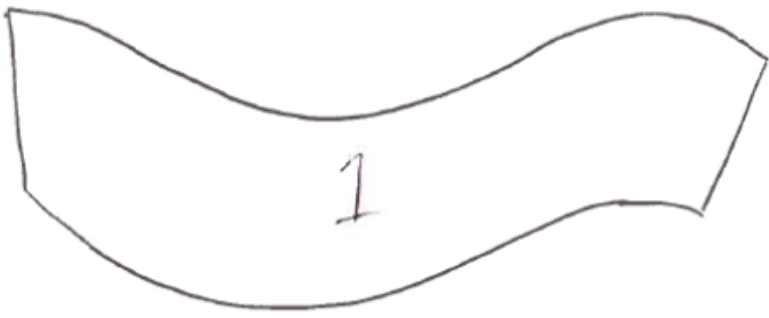
Special Note:

*\* Combine the counts of co-dominant species from all layers to identify the total species count. Each plant species is only counted once when calculating the Number of Co-dominant Species and Percent Invasion submetric scores, regardless of the numbers of layers in which it occurs.*

| Floating or Canopy-forming<br>(non-confined only) | Invasive?                      | Short (<0.5 m)                                                                                     | Invasive?            |
|---------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------|----------------------|
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
| Medium (0.5-1.5 m)                                | Invasive?                      | Tall (1.5-3.0 m)                                                                                   | Invasive?            |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
|                                                   | <input type="text"/>           |                                                                                                    | <input type="text"/> |
| Very Tall (>3.0 m)                                | Invasive?                      | Total number of co-dominant species<br>for all layers combined<br>(enter here and use in Table 18) | 1                    |
| Schinus terebinthifolius                          | <input type="text" value="4"/> | Percent Invasion<br>*Round to the nearest integer*<br>(enter here and use in Table 18)             | 100                  |
|                                                   | <input type="text"/>           |                                                                                                    |                      |
|                                                   | <input type="text"/>           |                                                                                                    |                      |
|                                                   | <input type="text"/>           |                                                                                                    |                      |

## Horizontal Interspersion Worksheet.

Use the spaces below to make a quick sketch of the AA in plan view, outlining the major plant zones (this should take no longer than 10 minutes). Assign the zones names and record them on the right. Based on the sketch, choose a single profile from Figure 12 that best represents the AA overall.

|                                                                                   |                                                                                                                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
|  | <p><b>Assigned zones:</b></p> <p>1) Brazilian peppertree</p> <p>2)</p> <p>3)</p> <p>4)</p> <p>5)</p> <p>6)</p> |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|

### Worksheet for Wetland disturbances and conversions

|                                                                                             |                                                                     |                                                               |                                                               |                                |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|--------------------------------|
| Has a major disturbance occurred at this wetland?                                           | <input type="checkbox"/> Yes                                        | <input type="checkbox"/> No                                   |                                                               |                                |
| If yes, was it a flood, fire, landslide, or other?                                          | <input type="checkbox"/> flood                                      | <input type="checkbox"/> fire                                 | <input type="checkbox"/> landslide                            | <input type="checkbox"/> other |
| If yes, then how severe is the disturbance?                                                 | <input type="checkbox"/> likely to affect site next 5 or more years | <input type="checkbox"/> likely to affect site next 3-5 years | <input type="checkbox"/> likely to affect site next 1-2 years |                                |
| Has this wetland been converted from another type? If yes, then what was the previous type? | <input type="checkbox"/> depressional                               | <input type="checkbox"/> vernal pool                          | <input type="checkbox"/> vernal pool system                   |                                |
|                                                                                             | <input type="checkbox"/> non-confined riverine                      | <input type="checkbox"/> confined riverine                    | <input type="checkbox"/> seasonal estuarine                   |                                |
|                                                                                             | <input type="checkbox"/> perennial saline estuarine                 | <input type="checkbox"/> perennial non-saline estuarine       | <input type="checkbox"/> wet meadow                           |                                |
|                                                                                             | <input type="checkbox"/> lacustrine                                 | <input type="checkbox"/> seep or spring                       | <input type="checkbox"/> playa                                |                                |

## Stressor Checklist Worksheet

| <b>HYDROLOGY ATTRIBUTE<br/>(WITHIN 50 M OF AA)</b>                  | <b>Present</b> | <b>Significant<br/>negative<br/>effect on AA</b> |
|---------------------------------------------------------------------|----------------|--------------------------------------------------|
| Point Source (PS) discharges (POTW, other non-stormwater discharge) | 4              |                                                  |
| Non-point Source (Non-PS) discharges (urban runoff, farm drainage)  | 4              |                                                  |
| Flow diversions or unnatural inflows                                |                |                                                  |
| Dams (reservoirs, detention basins, recharge basins)                |                |                                                  |
| Flow obstructions (culverts, paved stream crossings)                | 4              |                                                  |
| Weir/drop structure, tide gates                                     |                |                                                  |
| Dredged inlet/channel                                               |                |                                                  |
| Engineered channel (riprap, armored channel bank, bed)              |                |                                                  |
| Dike/levees                                                         |                |                                                  |
| Groundwater extraction                                              |                |                                                  |
| Ditches (borrow, agricultural drainage, mosquito control, etc.)     |                |                                                  |
| Actively managed hydrology                                          |                |                                                  |
| <b>Comments</b><br><br>Surrounded by residential development        |                |                                                  |

| <b>PHYSICAL STRUCTURE ATTRIBUTE<br/>(WITHIN 50 M OF AA)</b>                  | <b>Present</b> | <b>Significant<br/>negative<br/>effect on AA</b> |
|------------------------------------------------------------------------------|----------------|--------------------------------------------------|
| Filling or dumping of sediment or soils ( <b>N/A for restoration areas</b> ) |                |                                                  |
| Grading/ compaction ( <b>N/A for restoration areas</b> )                     |                |                                                  |
| Plowing/Discing ( <b>N/A for restoration areas</b> )                         |                |                                                  |
| Resource extraction (sediment, gravel, oil and/or gas)                       |                |                                                  |
| Vegetation management                                                        | 4              |                                                  |
| Excessive sediment or organic debris from watershed                          |                |                                                  |
| Excessive runoff from watershed                                              |                |                                                  |
| Nutrient impaired (PS or Non-PS pollution)                                   |                |                                                  |
| Heavy metal impaired (PS or Non-PS pollution)                                |                |                                                  |
| Pesticides or trace organics impaired (PS or Non-PS pollution)               |                |                                                  |
| Bacteria and pathogens impaired (PS or Non-PS pollution)                     |                |                                                  |
| Trash or refuse                                                              | 4              |                                                  |
| <b>Comments</b><br><br>huts, tents, and play structures observed             |                |                                                  |

| <b>BIOTIC STRUCTURE ATTRIBUTE<br/>(WITHIN 50 M OF AA)</b>                                                                              | <b>Present</b>             | <b>Significant<br/>negative<br/>effect on AA</b> |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|
| Mowing, grazing, excessive herbivory (within AA)                                                                                       | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Excessive human visitation                                                                                                             | <input type="checkbox"/> 4 | <input type="checkbox"/>                         |
| Predation and habitat destruction by non-native vertebrates (e.g., <i>Virginia opossum</i> and domestic predators, such as feral pets) | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Tree cutting/sapling removal                                                                                                           | <input type="checkbox"/> 4 | <input type="checkbox"/>                         |
| Removal of woody debris                                                                                                                | <input type="checkbox"/> 4 | <input type="checkbox"/>                         |
| Treatment of non-native and nuisance plant species                                                                                     | <input type="checkbox"/> 4 | <input type="checkbox"/>                         |
| Pesticide application or vector control                                                                                                | <input type="checkbox"/> 4 | <input type="checkbox"/>                         |
| Biological resource extraction or stocking (fisheries, aquaculture)                                                                    | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Excessive organic debris in matrix (for vernal pools)                                                                                  | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Lack of vegetation management to conserve natural resources                                                                            | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Lack of treatment of invasive plants adjacent to AA or buffer                                                                          | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| <b>Comments</b>                                                                                                                        |                            |                                                  |
|                                                                                                                                        |                            |                                                  |

| <b>BUFFER AND LANDSCAPE CONTEXT ATTRIBUTE<br/>(WITHIN 500 M OF AA)</b>   | <b>Present</b>             | <b>Significant<br/>negative<br/>effect on AA</b> |
|--------------------------------------------------------------------------|----------------------------|--------------------------------------------------|
| Urban residential                                                        | <input type="checkbox"/> 4 | <input type="checkbox"/>                         |
| Industrial/commercial                                                    | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Military training/Air traffic                                            | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Dams (or other major flow regulation or disruption)                      | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Dryland farming                                                          | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Intensive row-crop agriculture                                           | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Orchards/nurseries                                                       | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Commercial feedlots                                                      | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Dairies                                                                  | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Ranching (enclosed livestock grazing or horse paddock or feedlot)        | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Transportation corridor                                                  | <input type="checkbox"/> 4 | <input type="checkbox"/>                         |
| Rangeland (livestock rangeland also managed for native vegetation)       | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Sports fields and urban parklands (golf courses, soccer fields, etc.)    | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Passive recreation (bird-watching, hiking, etc.)                         | <input type="checkbox"/> 4 | <input type="checkbox"/>                         |
| Active recreation (off-road vehicles, mountain biking, hunting, fishing) | <input type="checkbox"/> 4 | <input type="checkbox"/>                         |
| Physical resource extraction (rock, sediment, oil/gas)                   | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| Biological resource extraction (aquaculture, commercial fisheries)       | <input type="checkbox"/>   | <input type="checkbox"/>                         |
| <b>Comments</b>                                                          |                            |                                                  |
|                                                                          |                            |                                                  |

# APPENDIX C

## **Plant and Wildlife Species Compendia**



# PLANT AND WILDLIFE SPECIES COMPENDIUM

## Plant Species Observed Onsite

| Group and Family                              | Scientific Name                            | Common Name             |
|-----------------------------------------------|--------------------------------------------|-------------------------|
| <b>MAGNOLIIDS</b>                             |                                            |                         |
| <b>Sauruaceae - Lizard's-Tail Family</b>      | <i>Anemopsis californica</i>               | Yerba Mansa             |
| <b>ANGIOSPERMS-MONOCOTS</b>                   |                                            |                         |
| <b>Arecaceae (Palmae) - Palm Family</b>       | <i>Washingtonia robusta</i> *              | Mexican Fan Palm        |
| <b>Cyperaceae - Sedge Family</b>              | <i>Schoenoplectus californicus</i>         | California Bulrush      |
| <b>Juncaceae - Rush Family</b>                | <i>Juncus acutus</i> ssp. <i>leopoldii</i> | Southwestern Spiny Rush |
| <b>Poaceae - Grass Family</b>                 | <i>Distichlis spicata</i>                  | Saltgrass               |
|                                               | <i>Elymus condensatus</i>                  | Giant Wild Rye          |
| <b>Typhaceae - Cattail Family</b>             | <i>Typha latifolia</i>                     | Broad-leaf Cattail      |
| <b>ANGIOSPERMS-EUDICOTS</b>                   |                                            |                         |
| <b>Adoxaceae - Adoxa Family</b>               | <i>Sambucus nigra</i> ssp. <i>caerulea</i> | Blue Elderberry         |
| <b>Aizoaceae - Fig-Marigold Family</b>        | <i>Carpobrotus chilensis</i> *             | Sea-Fig                 |
|                                               | <i>Mesembryanthemum crystallinum</i> *     | Crystalline Iceplant    |
|                                               | <i>Malephora crocea</i> *                  | Croceum iceplant        |
| <b>Anacardiaceae - Sumac or Cashew Family</b> | <i>Malosma laurina</i>                     | Laurel Sumac            |
|                                               | <i>Rhus integrifolia</i>                   | Lemonade Berry          |
|                                               | <i>Schinus terebinthifolius</i> *          | Brazilian Pepper Tree   |
| <b>Asteraceae - Sunflower Family</b>          | <i>Toxicodendron diversilobum</i>          | Poison Oak              |
|                                               | <i>Ambrosia psilostachya</i>               | Western Ragweed         |
|                                               | <i>Artemisia californica</i>               | California Sagebrush    |

| Group and Family                           | Scientific Name                                 | Common Name             |
|--------------------------------------------|-------------------------------------------------|-------------------------|
|                                            | <i>Baccharis pilularis</i>                      | Coyote Brush            |
|                                            | <i>Baccharis salicifolia</i>                    | Mule-Fat                |
|                                            | <i>Centromadia parryi</i> ssp. <i>australis</i> | Southern Tarplant       |
|                                            | <i>Helminthotheca echioides</i> *               | Bristly Ox Tongue       |
|                                            | <i>Isocoma menziesii</i>                        | Menzies's Golden Bush   |
|                                            | <i>Silybum marianum</i> *                       | Milk Thistle            |
|                                            | <i>Sonchus oleraceus</i> *                      | Common Sow Thistle      |
|                                            | <i>Encelia californica</i>                      | California Encelia      |
| <b>Brassicaceae - Mustard Family</b>       | <i>Brassica nigra</i> *                         | Black Mustard           |
|                                            | <i>Hirschfeldia incana</i> *                    | Shortpod Mustard        |
| <b>Cactaceae – Cactus Family</b>           | <i>Opuntia littoralis</i>                       | Coastal Prickly Pear    |
|                                            | <i>Opuntia oricola</i>                          | Oracle Cactus           |
| <b>Chenopodiaceae - Goosefoot Family</b>   | <i>Atriplex amnicola</i> *                      | Swamp Saltbush          |
|                                            | <i>Atriplex canescens</i>                       | Fourwing Saltbush       |
|                                            | <i>Atriplex glauca</i> *                        | Waxy Saltbush           |
|                                            | <i>Atriplex lentiformes</i>                     | Quailbush               |
|                                            | <i>Atriplex semibaccata</i> *                   | Australian Saltbush     |
|                                            | <i>Chenopodium murale</i> *                     | Nettle-leaved Goosefoot |
|                                            | <i>Salicornia pacifica</i>                      | Pickleweed              |
| <b>Cleomaceae - Spiderflower Family</b>    | <i>Peritoma arborea</i>                         | Bladderpod              |
| <b>Crassulaceae - Stonecrop Family</b>     | <i>Crassula ovata</i> *                         | Jade Plant              |
| <b>Euphorbiaceae - Spurge Family</b>       | <i>Ricinus communis</i> *                       | Castor Bean             |
| <b>Fagaceae - Oak Family</b>               | <i>Quercus agrifolia</i>                        | Coast Live Oak          |
|                                            | <i>Medicago polymorpha</i> *                    | California Burclover    |
| <b>Frankeniaceae - Alkali Heath Family</b> | <i>Frankenia salina</i>                         | Alkali Heath            |
| <b>Geraniaceae - Geranium Family</b>       | <i>Erodium cicutarium</i> *                     | Red-Stem Filaree        |
| <b>Lamiaceae - Mint Family</b>             | <i>Marrubium vulgare</i> *                      | Horehound               |
|                                            | <i>Salvia mellifera</i>                         | Black Sage              |

| <b>Group and Family</b>                    | <b>Scientific Name</b>         | <b>Common Name</b>       |
|--------------------------------------------|--------------------------------|--------------------------|
| <b>Malvaceae - Mallow Family</b>           | <i>Malva parviflora*</i>       | Cheeseweed               |
| <b>Myrsinaceae - Myrsine Family</b>        | <i>Anagallis arvensis*</i>     | Scarlet Pimpernel        |
| <b>Myrtaceae - Myrtle Family</b>           | <i>Eucalyptus</i> sp.*         | Gum Tree                 |
| <b>Oleaceae - Olive Family</b>             | <i>Fraxinus uhdei*</i>         | Shamel Ash               |
| <b>Oxalidaceae - Oxalis Family</b>         | <i>Oxalis pes-caprae*</i>      | Bermuda Buttercup        |
| <b>Nyctaginaceae – Four O’Clock Family</b> | <i>Mirabilis laevis</i>        | Wishbone Bush            |
| <b>Phrymaceae - Lopseed Family</b>         | <i>Mimulus aurantiacus</i>     | Orange Bush Monkeyflower |
| <b>Platanaceae - Sycamore Family</b>       | <i>Platanus racemosa</i>       | Western Sycamore         |
| <b>Polygonaceae - Buckwheat Family</b>     | <i>Eriogonum fasciculatum</i>  | California Buckwheat     |
|                                            | <i>Rumex crispus*</i>          | Curly Dock               |
| <b>Rosaceae - Rose Family</b>              | <i>Heteromeles arbutifolia</i> | Toyon                    |
| <b>Rubiaceae - Madder or Coffee Family</b> | <i>Galium aparine</i>          | Common Bedstraw          |
| <b>Salicaceae - Willow Family</b>          | <i>Salix lasiolepis</i>        | Arroyo Willow            |
| <b>Scrophulariaceae - Figwort Family</b>   | <i>Myoporum laetum*</i>        | Myoporum                 |
| <b>Solanaceae - Nightshade Family</b>      | <i>Lycium californicum</i>     | Coast Desert-Thorn       |
|                                            | <i>Solanum douglasii</i>       | Douglas’ Nightshade      |
| <b>Tropaeolaceae - Nasturtium Family</b>   | <i>Tropaeolum majus*</i>       | Garden Nasturtium        |
| <b>Urticaceae - Nettle Family</b>          | <i>Urtica dioica</i>           | Stinging Nettle          |
|                                            | <i>Urtica urens*</i>           | Dwarf Nettle             |

\*Non-native species

## Wildlife Species Observed Onsite

| Order                                            | Family                                                         | Scientific Name              | Common Name       |
|--------------------------------------------------|----------------------------------------------------------------|------------------------------|-------------------|
| <b>Doves and Sandgrouse: Order Columbiformes</b> |                                                                |                              |                   |
|                                                  | <b>Family Columbidae (Doves and Pigeons)</b>                   |                              |                   |
|                                                  |                                                                | <i>Zenaida macroura</i>      | Mourning Dove     |
| <b>Ducks, Geese: Order Anseriformes</b>          |                                                                |                              |                   |
|                                                  | <b>Family Anatidae (Ducks)</b>                                 |                              |                   |
|                                                  |                                                                | <i>Anas platyrhynchos</i>    | Mallard           |
| <b>New World Vultures: Order Cathartiformes</b>  |                                                                |                              |                   |
|                                                  | <b>Family Cathartidae (New World Vultures)</b>                 |                              |                   |
|                                                  |                                                                | <i>Cathartes aura</i>        | Turkey Vulture    |
| <b>Raptors: Order Falconiformes</b>              |                                                                |                              |                   |
|                                                  | <b>Family Accipitridae (Hawks, Kites, and Eagles)</b>          |                              |                   |
|                                                  |                                                                | <i>Accipiter cooperii</i>    | Cooper's Hawk     |
|                                                  |                                                                | <i>Elanus leucurus</i>       | White-Tailed Kite |
| <b>Songbirds: Order Passeriformes</b>            |                                                                |                              |                   |
|                                                  | <b>Family Aegithalidae (Long-tailed Tits)</b>                  |                              |                   |
|                                                  |                                                                | <i>Psaltiriparus minimus</i> | Bushtit           |
|                                                  | <b>Family Corvidae (Jays and Crows)</b>                        |                              |                   |
|                                                  |                                                                | <i>Corvus brachyrhynchos</i> | American Crow     |
|                                                  | <b>Family Passerellidae (New World Sparrows and Relatives)</b> |                              |                   |
|                                                  |                                                                | <i>Melospiza melodia</i>     | Song Sparrow      |

|                                               |                                           |                                |
|-----------------------------------------------|-------------------------------------------|--------------------------------|
|                                               | <i>Pipilo crissalis</i>                   | California Towhee              |
|                                               | <i>Pipilo maculatus</i>                   | Spotted Towhee                 |
| <b>Family Parulidae (New World Warblers)</b>  |                                           |                                |
|                                               | <i>Dendroica coronata</i>                 | Yellow-Rumped Warbler          |
|                                               | <i>Dendroica petechia</i>                 | Yellow Warbler                 |
|                                               | <i>Geothlypis trichas</i>                 | Common Yellowthroat            |
|                                               | <i>Icteria virens</i>                     | Yellow-Breasted Chat           |
| <b>Family Mimidae (Thrashers)</b>             |                                           |                                |
|                                               | <i>Mimus polyglottos</i>                  | Northern Mockingbird           |
| <b>Family Sturnidae (Starlings)</b>           |                                           |                                |
|                                               | <i>Sturnus vulgaris</i>                   | European Starling              |
| <b>Family Fringillidae (Finches)</b>          |                                           |                                |
|                                               | <i>Carduelis psaltria</i>                 | Lesser Goldfinch               |
|                                               | <i>Carpodacus mexicanus</i>               | House Finch                    |
|                                               | <i>Spinus tristis</i>                     | American Goldfinch             |
| <b>Family Passeridae (Old World Sparrows)</b> |                                           |                                |
|                                               | <i>Passer domesticus</i>                  | House Sparrow                  |
| <b>Family Polioptilidae (Gnatcatchers)</b>    |                                           |                                |
|                                               | <i>Polioptila californica californica</i> | Coastal California Gnatcatcher |
| <b>Family Regulidae (Kinglets)</b>            |                                           |                                |
|                                               | <i>Regulus calendula</i>                  | Ruby-Crowned Kinglet           |
| <b>Family Tyrannidae (Tyrant Flycatchers)</b> |                                           |                                |
|                                               | <i>Empidonax difficilis</i>               | Pacific-slope Flycatcher       |
|                                               | <i>Myiarchus cinerascens</i>              | Ash-throated Flycatcher        |
|                                               | <i>Sayornis nigricans</i>                 | Black Phoebe                   |

This page left intentionally blank

## APPENDIX D

### **Potentially Occurring Special- Status Species**

## SENSITIVE PLANT SPECIES WITH POTENTIAL TO OCCUR ONSITE

| Species                                                                                  | Status <sup>1</sup><br>Federal/State,<br>CRPR/County | Habitat Requirements                                                                                                                                                                                                                                      | Potential to Occur                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Red sand-verbena<br>( <i>Abronia maritima</i> )                                          | --/4.2/Not covered                                   | Annual herb found in sandy soils within coastal dunes. Blooming period from January - September. Occurs at elevations of 0 – 100 m.                                                                                                                       | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.                                                                                                                                    |
| Chaparral sand-verbena<br>( <i>Abronia villosa</i> var. <i>aurita</i> )                  | --/1B.1/Not covered                                  | Found in sandy areas, chaparral, desert dunes, and coastal scrub habitats from 75 – 1600 m elevation. Blooming period is January – September.                                                                                                             | <b>Unlikely.</b> Suitable habitat and soils are not present on-site or within the immediate vicinity.                                                                                                                         |
| Aphanisma<br>( <i>Aphanisma blitodes</i> )                                               | --/1B.2/Not covered                                  | Annual herb found in coastal bluff scrub, coastal dunes, and coastal scrub; sandy soils. Blooming period is March – June and found at elevations from 1 - 305 m.                                                                                          | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity. One source indicates this species was observed "on south facing bluff in Big Canyon" in 2005, but no coordinates provided. |
| Ventura Marsh milk-vetch<br>( <i>Astragalus pycnostachyus</i> var. <i>lanosissimus</i> ) | FE/SE, 1B.1/Not covered                              | Perennial herb found in marshes and swamps, coastal dunes, and coastal scrub; within reach of high tide or protected by barrier beaches, more rarely near seeps on sandy bluffs. Blooming period is June – October and found at elevations from 1 - 35 m. | <b>Unlikely.</b> Not expected, not known to occur in Orange County.                                                                                                                                                           |
| Coulter's saltbush<br>( <i>Atriplex coulteri</i> )                                       | --/1B.2/Not covered                                  | Found on alkaline or clay substrate within coastal bluff scrub, coastal dune, coastal scrub and valley and foothill grassland habitats. Blooming period is March – October. Occurs at elevations from 3 - 460 m.                                          | <b>Moderate.</b> Suitable habitat is present on-site or within the immediate vicinity. One previously recorded occurrence was identified near the mouth of San Diego Creek.                                                   |
| South Coast saltscale ( <i>Atriplex pacifica</i> )                                       | --/1B.2/Not covered                                  | Found within chenopod scrub, coastal bluff and coastal scrub habitats. Blooming period is March – October. Occurs at elevations up to 140 m.                                                                                                              | <b>Moderate.</b> Suitable habitat is present on-site or in the immediate vicinity.                                                                                                                                            |
| Parish's brittescale<br>( <i>Atriplex parishii</i> )                                     | --/1B.1/Not covered                                  | Found in alkali meadows, vernal pools, playas and chenopod scrub. Associated with alkaline soils. Blooming period is June – October. Occurs at 25 – 1900 m elevation.                                                                                     | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity. However, unlikely since this species has not been seen in Orange County since 1907.                                        |
| Davidson's saltscale<br>( <i>Atriplex serenana</i> var. <i>davidsonii</i> )              | --/1B.2/Not covered                                  | Found on alkaline substrate within coastal bluff scrub and coastal scrub habitats. Blooming period is from April – October and occurs at elevations from 10 - 200 m.                                                                                      | <b>Moderate.</b> Limited, low quality habitat is present on-site or within the immediate vicinity.                                                                                                                            |
| Catalina mariposa lily<br>( <i>Calochortus catalinae</i> )                               | --/4.2/Covered                                       | Occurs in heavy soils in chaparral, cismontane woodland, coastal scrub and valley and foothill grassland below 700 m. When occurring on slopes, it is usually associated with coastal scrub vegetation. Blooming period is February – June.               | <b>Low.</b> Low quality habitat is present on-site or within the immediate vicinity. Required soils are not present.                                                                                                          |
| Intermediate mariposa lily<br>( <i>Calochortus weedii</i> var. <i>intermedius</i> )      | --<br>/1B.2/Conditionally Covered                    | Found in coastal scrub, chaparral, and valley and foothill grassland on dry, rocky open slopes and rock outcrops. Blooming period is May – July and occurs at elevations of 120 - 850 m.                                                                  | <b>Unlikely.</b> Suitable habitat and soils are not present on-site or within the immediate vicinity. Elevation constraints further limit suitability.                                                                        |



| Species                                                                                 | Status <sup>1</sup><br>Federal/State,<br>CRPR/County | Habitat Requirements                                                                                                                                                                                                                                                                                              | Potential to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| lucky morning-glory<br>( <i>Calystegia felix</i> )                                      | --/1B.1/Not covered                                  | Found in meadows and seeps (sometimes alkaline), riparian scrub (alluvial). Historically associated with wetland and marshy places, but possibly in drier situations as well. Blooming period is March – September and occurs at elevations of 30 - 215 m.                                                        | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                                                                                                       |
| Lewis' evening primrose<br>( <i>Camissoniopsis lewisii</i> )                            | --/3/Not covered                                     | Annual herb found in sandy or clay soils in cismontane woodlands, valley and foothill grasslands, coastal dunes, and coastal scrub. Blooming period is March – June and occurs at elevations of 0 - 300 m.                                                                                                        | <b>Low.</b> Low quality habitat is present on-site or within the immediate vicinity. Required soils are not present.                                                                                                                                                                                                                                                                                                                                                     |
| Southern tarplant<br>( <i>Centromadia parryi</i> ssp. <i>australis</i> )                | --/1B.1/Not covered                                  | Found in the margins of marshes and swamps, vernal mesic valley and foothill grasslands, and vernal pool habitats. This species is commonly found in disturbed areas, in relatively close proximity to a seasonal or perennial water source. Blooming period is May – November; occurs at elevations up to 425 m. | <b>Present.</b> During the 2015 focused plant surveys, occurrences of southern tarplant were documented within 9 locations within the study area, but outside of the Phase 2A project site (Dudek 2015). Young tarplants were observed during ESA's March 2018 site visit in two locations; although tarplant was not observed in the other 7 locations, this may have been due to the timing of the site visit (i.e., too early in the season for this annual species). |
| Orcutt's pincushion<br>( <i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i> )        | --/1B.1/Not covered                                  | Found in coastal bluff scrub and coastal dunes, on sandy sites at elevations of 3 -100 m. Blooming period is January – August.                                                                                                                                                                                    | <b>Unlikely.</b> Suitable habitat and soils are not present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                                                                                                    |
| Salt marsh bird's-beak<br>( <i>Chloropyron maritimum</i> ssp. <i>maritimum</i> )        | FE/SE, 1B.2/Not covered                              | Found within coastal dune, salt marsh, and swamp habitats, at elevations up to 1400 m. Blooming period is May – October.                                                                                                                                                                                          | <b>Low.</b> Very limited. This species was found immediately adjacent to Big Canyon (west of Backbay Drive). However, low quality habitat is present on-site.                                                                                                                                                                                                                                                                                                            |
| San Fernando Valley spineflower<br>( <i>Chorizanthe parryi</i> var. <i>fernandina</i> ) | FC/SE, 1B.1/Not covered                              | Annual herb found within sandy coastal scrub and valley and foothill grassland. Blooming period is April – July; occurs at 150 – 1220 m elevation.                                                                                                                                                                | <b>Low.</b> Low quality habitat is present on-site or within the immediate vicinity. Elevation constraints further limit suitability.                                                                                                                                                                                                                                                                                                                                    |
| Seaside cistanthe<br>( <i>Cistanthe maritima</i> )                                      | --/4.2/Not covered                                   | Annual herb found in coastal bluff scrub, coastal scrub, and valley and foothill grassland in sandy soils. Blooming period is February – August; occurs at 5 – 300 m elevation.                                                                                                                                   | <b>Low.</b> Low quality habitat is present on-site or within the immediate vicinity. Required soils are not present.                                                                                                                                                                                                                                                                                                                                                     |
| Summer holly<br>( <i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i> )        | --/1B.2/Not covered                                  | Perennial evergreen shrub found in chaparral and cismontane woodland. Blooming period is April – June and is found at elevations of 30 – 790 m.                                                                                                                                                                   | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                                                                                                               |
| Small-flowered morning-glory<br>( <i>Convolvulus simulans</i> )                         | --/4.2/Not covered                                   | Annual herb found in clay, serpentine seeps in chaparral, coastal scrub, and valley and foothill grassland. Occurs from 30 – 700 m in elevation and blooming period is March – July.                                                                                                                              | <b>Low.</b> Low quality habitat is present on-site or within the immediate vicinity. Required soils are not present.                                                                                                                                                                                                                                                                                                                                                     |
| Paniculate tarplant<br>( <i>Deinandra paniculata</i> )                                  | --/4.2/Not covered                                   | Annual herb found in coastal scrub, valley and foothill grassland, and vernal pools from 25 – 940 m elevation. Blooming period is April – November.                                                                                                                                                               | <b>Low.</b> Low quality habitat is present on-site or within the immediate vicinity, and likely outside of historic range in Orange County (Bommer Canyon eastward).                                                                                                                                                                                                                                                                                                     |

| Species                                                                              | Status <sup>1</sup><br>Federal/State,<br>CRPR/County | Habitat Requirements                                                                                                                                                                                                       | Potential to Occur                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Western dichondra<br>( <i>Dichondra occidentalis</i> )                               | --/4.2/Not covered                                   | Perennial rhizomatous herb in chaparral, cismontane woodlands, coastal scrub, and valley and foothill grasslands. Occurring at 20 – 500 m elevation. Blooming period is January – July.                                    | <b>Low.</b> Low quality habitat is present on-site or within the immediate vicinity.                                                                                                                       |
| Many-stemmed dudleya<br>( <i>Dudleya multicaulis</i> )                               | --/1B.2/Not covered                                  | Found on clay substrate within chaparral, coastal scrub and valley and grassland habitats. Blooming period is April – July; occurs at elevations from 15 - 790 m.                                                          | <b>Low.</b> Suitable habitat (i.e., natural habitat on bluffs) and soils are not present on-site or within the immediate vicinity.                                                                         |
| Laguna Beach dudleya<br>( <i>Dudleya stolonifera</i> )                               | FT/ST,<br>1B.1/Covered                               | Found on rocky substrate within chaparral, cismontane woodland, coastal scrub and valley and grassland habitats at elevations from 10 to 260 m. Blooming period is May - July.                                             | <b>Unlikely.</b> Suitable habitat and soils are not present on-site or within the immediate vicinity, and outside of known range.                                                                          |
| Santa Ana River woollystar<br>( <i>Eriastrum densifolium</i> ssp. <i>sanctorum</i> ) | FE/SE, 1B.1/Not covered                              | Perennial herb found in chaparral or coastal scrub habitats (alluvial fans); sandy or gravelly soil. Blooming period is April – September; occurs at elevations from 90 – 610 m.                                           | <b>Unlikely.</b> Suitable habitat and soils are not present on-site or within the immediate vicinity.                                                                                                      |
| San Diego button-celery<br>( <i>Eryngium aristulatum</i> var. <i>parishii</i> )      | FE/SE, 1B.1/Not covered                              | Found in vernal pools, coastal scrub, valley and foothill grassland. San Diego mesa hardpan and claypan vernal pools and southern interior basal flow vernal pools, usually surrounded by scrub at elevations of 15-620 m. | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.                                                                                                                 |
| Cliff spurge<br>( <i>Euphorbia misera</i> )                                          | --/2B.2/Not covered                                  | Perennial shrub found in coastal bluff scrub, coastal scrub, and Mojavean desert scrub; rocky soils. Blooming period is December – October and occurs at elevations of 10 – 500 m.                                         | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity. Required soils are not present, and study area is beyond the northernmost known population (Corona del Mar). |
| Palmer's grapplinghook<br>( <i>Harpagonella palmeri</i> )                            | --/4.2/Not covered                                   | Annual herb found in chaparral, coastal scrub, and valley and foothill grassland; clay soils at 20 – 955 m elevation. Blooming period is March - May.                                                                      | <b>Low.</b> Low quality habitat is present on-site or within the immediate vicinity. Required soils are not present.                                                                                       |
| Los Angeles sunflower<br>( <i>Helianthus nuttallii</i> var. <i>parishii</i> )        | --/1A/Not covered                                    | Perennial rhizomatous herb occurs in coastal salt and freshwater marshes and swamps. Blooming period is August – October and occurs at 10 – 1675 m elevation.                                                              | <b>Low.</b> Very limited habitat is present on-site or within the immediate vicinity. Species has not been observed since 1933.                                                                            |
| Vernal barley<br>( <i>Hordeum intercedens</i> )                                      | --/3.2/Not covered                                   | Annual herb found in coastal dunes, coastal scrub, valley and foothill grassland (saline flats and depressions) and vernal pools. Occurs from 5 – 1000 m elevation; blooming period is March – June.                       | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.                                                                                                                 |
| Mesa horkelia<br>( <i>Horkelia cuneata</i> ssp. <i>puberula</i> )                    | --/1B.1/Not covered                                  | Perennial herb found in chaparral, cismontane woodland and coastal scrub habitats; found in gravelly or sandy sites from 70 – 810 m elevation. Blooming period is February - September.                                    | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity. Required soils are not present.                                                                              |

| Species                                                                                | Status <sup>1</sup><br>Federal/State,<br>CRPR/County | Habitat Requirements                                                                                                                                                                                    | Potential to Occur                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Decumbent goldenbush<br>( <i>Isocoma menziesii</i><br>var. <i>decumbens</i> )          | --/1B.2/Not covered                                  | Perennial shrub that occurs in chaparral and coastal scrub; sandy soils (often within disturbed areas). Blooming period is April – November and occurs at 10 – 135 m elevation.                         | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity, and outside of known range (San Diego County, the southern Channel Islands, and northern Baja California).                                                                                                                                                                    |
| Southern California black walnut<br>( <i>Juglans californica</i> )                     | --/4.2/Not covered                                   | Perennial deciduous tree found in chaparral, cismontane woodland, and coastal scrub (alluvial) at elevations of 50 – 900 m. Blooming period is March – August.                                          | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                               |
| Southwestern spiny rush<br>( <i>Juncus acutus</i> ssp. <i>leopoldii</i> )              | --/4.2/Not covered                                   | Perennial rhizomatous herb found in coastal dunes (mesic), meadows and seeps (alkaline seeps), and marshes and swamps (coastal salt). Occurs from 3 – 900 m elevation; blooming period is March – June. | <b>Present.</b> Suitable habitat is present on-site or within the immediate vicinity. This species has been observed within Big Canyon (Dudek 2015), but outside the Phase 2A project site.                                                                                                                                                                                 |
| Coulter's goldfields<br>( <i>Lasthenia glabrata</i><br>ssp. <i>coulteri</i> )          | --/1B.1/Not covered                                  | Found in wetland habitats. Microhabitats include playas and vernal pools at elevations up to 1220 m. Blooming period is February - June .                                                               | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity. Required soils are not present.                                                                                                                                                                                                                                               |
| Robinson's pepper-grass<br>( <i>Lepidium virginicum</i><br>var. <i>robinsonii</i> )    | --/4.3/Not covered                                   | Found within chaparral and coastal scrub habitats at elevations up to 885 m. Blooming period is January – July.                                                                                         | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                               |
| California box-thorn<br>( <i>Lycium californicum</i> )                                 | --/4.2/Not covered                                   | Perennial shrub found in coastal bluff scrub and coastal scrub at 5 – 150 m elevation. Blooming period is December – August.                                                                            | <b>Present.</b> During the 2015 focused plant surveys, occurrences of California box-thorn were documented within 8 locations within the study area, but outside of the Phase 2A project site (Dudek 2015). During ESA's March 2018 site visit, 7 of the 8 locations were confirmed; 1 location was not confirmed to restricted accessibility but is presumed to be extant. |
| Cliff malacothrix<br>( <i>Malacothrix saxatilis</i><br>var. <i>saxatilis</i> )         | --/4.2/Not covered                                   | Perennial rhizomatous herb found in coastal bluff scrub and coastal scrub at 3 – 200 m elevation. Blooming period is March – September.                                                                 | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                               |
| Small-flowered microseris<br>( <i>Microseris douglasii</i><br>ssp. <i>platycarpa</i> ) | --/4.2/Not covered                                   | Annual herb found in cismontane woodland, coastal scrub, valley and foothill grassland, and vernal pools; clay soils. Occurs at elevations of 15 – 1070 m; blooming period is March – May.              | <b>Unlikely.</b> Suitable habitat and soils are not present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                       |
| Mud nama<br>( <i>Nama stenocarpum</i> )                                                | --/2B.2/Not covered                                  | Found along freshwater lake margins, riverbanks, marshes and swamps. Blooming period is January – July; occurs at elevations from 5 - 500 m.                                                            | <b>Unlikely.</b> Not expected due to lack of suitable habitat on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                     |
| Gambel's water cress<br>( <i>Nasturtium gambelii</i> )                                 | FE/ST, 1B.1/Not covered                              | Perennial rhizomatous herb found in marshes and swamps (freshwater or brackish). Blooming period is April – October; found at elevations of 5 - 330 m.                                                  | <b>Low.</b> Very limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                       |
| Prostrate navarretia<br>( <i>Navarretia prostrata</i> )                                | --/1B.1/Not covered                                  | Annual herb associated with coastal scrub, valley and foothill grassland, vernal pools from 15 – 1210 m elevation. Blooming period is from April – July.                                                | <b>Unlikely.</b> Not expected due to lack of suitable vernal pool habitat on-site or within the immediate vicinity.                                                                                                                                                                                                                                                         |

| Species                                                                                       | Status <sup>1</sup><br>Federal/State,<br>CRPR/County | Habitat Requirements                                                                                                                                                                                               | Potential to Occur                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coast woolly-heads<br>( <i>Nemacaulis denudata</i> var.<br><i>denudata</i> )                  | --/1B.2/Not covered                                  | Annual herb found in coastal dunes. Blooming period lasts from April – September and occurs up to 100 m elevation.                                                                                                 | <b>Unlikely.</b> Suitable sandy habitat is not present on-site or within the immediate vicinity.                                                                     |
| California Orcutt grass<br>( <i>Orcuttia californica</i> )                                    | FE/SE, 1B.1/Not covered                              | Annual herb found in vernal pools. Blooming period lasts from April – August and occurs at 10 to 660 m elevation.                                                                                                  | <b>Unlikely.</b> Known in Orange County only from recently discovered population at Fairview Park. Not expected due to lack of suitable vernal pool habitat on-site. |
| Allen's pentachaeta<br>( <i>Pentachaeta aurea</i> ssp. <i>allenii</i> )                       | --/--/1B.1/Not covered                               | Annual herb found in coastal scrub openings and valley and foothill grasslands; often on clay. Blooming period is March – June; occurs at 75 – 520 m elevation.                                                    | <b>Low.</b> Low quality habitat is present on-site or within the immediate vicinity; suitable soils not present.                                                     |
| Hubby's phacelia<br>( <i>Phacelia hubbyi</i> )                                                | --/4.2/Not covered                                   | Annual herb found in chaparral, coastal scrub, valley and foothill grassland; gravelly, rocky, talus. Blooming period is April – July; occurs at 0 – 1000 m elevation.                                             | <b>Unlikely.</b> Not expected due to lack of suitable habitat on-site. Soils likely too saline in Big Canyon.                                                        |
| South coast branching phacelia<br>( <i>Phacelia ramosissima</i> var. <i>austrolitoralis</i> ) | --/3.2/Not covered                                   | Perennial herb found in chaparral, coastal dunes, coastal scrub, and coastal saltwater marshes and swamps; sandy, sometimes rocky, soil. Blooming period is March – August and grows at elevations of 5 – 300 m.   | <b>Low.</b> Suitable habitat and soils are sparse on-site or within the immediate vicinity.                                                                          |
| Brand's star phacelia<br>( <i>Phacelia stellaris</i> )                                        | --/1B.1/Not covered                                  | Annual herb found in coastal scrub, coastal dunes; open areas. Blooming period is March – June and grows at elevations of 3 – 370 m.                                                                               | <b>Low.</b> Low due to regional rarity.                                                                                                                              |
| Nuttall's scrub oak<br>( <i>Quercus dumosa</i> )                                              | --/1B.1/Covered                                      | Perennial evergreen shrub found in close-cone coniferous forest, chaparral, and coastal sage scrub; sandy, clay loam soil. Blooming period is February – August and occurs at 15 – 400 m elevation.                | <b>Unlikely.</b> Not expected due to lack of suitable chaparral habitat on-site. Soils likely too silty.                                                             |
| Sanford's arrowhead<br>( <i>Sagittaria sanfordii</i> )                                        | --/1B.2/Not covered                                  | Perennial rhizomatous herb that occurs in marshes and swamps (assorted shallow freshwater). Occurs at elevations up to 650 m. Blooming period is May – November.                                                   | <b>Low.</b> Limited habitat is present on-site or within the immediate vicinity.                                                                                     |
| Chaparral ragwort<br>( <i>Senecio aphanactis</i> )                                            | --/2B.2/Not covered                                  | Annual herb found in chaparral, cismontane woodland, and coastal scrub; soil is sometimes alkaline. Blooming period is January – April and occurs at 15 – 800 m elevation.                                         | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity; heavy clay soils largely absent.                                       |
| Salt spring checkerbloom<br>( <i>Sidalcea neomexicana</i> )                                   | --/2B.2/Not covered                                  | Perennial herb found in chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub, and playas; alkaline, mesic soils. Blooming period is March – June and occurs at 15 to 1530 m elevation. | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity.                                                                        |
| Estuary seablite<br>( <i>Suaeda esteroa</i> )                                                 | --/1B.2/Not covered                                  | Perennial herb found in coastal salt marshes and swamps with tidal flows. Blooming period runs May – January. Occurs at sea level (up to 5 m elevation).                                                           | <b>Low.</b> Limited, low quality habitat is present on-site. Known to occur in nearby salt marsh near Back Bay Drive.                                                |

| Species                                                      | Status <sup>1</sup>           |                                                                                                                                                                                                                                                                                                 | Potential to Occur                                                                                                                                                                                                                   |
|--------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              | Federal/State,<br>CRPR/County | Habitat Requirements                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                      |
| Woolly seablite<br>( <i>Suaeda taxifolia</i> )               | --/4.2/Not covered            | Perennial evergreen shrub found in coastal bluff scrub, coastal dunes, marshes and swamps (margins of coastal salt). Blooming period is January – December and occurs at elevations from 0 – 50 m.                                                                                              | <b>Moderate.</b> Known from Big Canyon area but not found within the Phase 2A project site. Limited habitat is present in the study area. This species is known or expected to occur closer to the bay but above the high tide line. |
| San Bernardino aster<br>( <i>Symphyotrichum defoliatum</i> ) | --/1B.2/Not covered           | Perennial rhizomatous herb found near ditches, streams, and springs in cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, and valley and foothill grassland. Occurs from 2 – 2040 m elevation; blooming period occurs July – November. | <b>Low.</b> Limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                     |
| Big-leaved crownbeard<br>( <i>Verbesina dissita</i> )        | --/1B.2/Not covered           | Found within chaparral and coastal scrub habitats. Blooming period is April - July and occurs at elevations from 145 - 205 m.                                                                                                                                                                   | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity. Elevation constraints further limit suitability.                                                                                       |

<sup>1</sup> Description of status codes:

FE = Listed as endangered under the FESA

FT = Listed as threatened under the FESA

SE = Listed as endangered under the CESA

ST= Listed as threatened under the CESA

CRPR = California Rare Plant Rank (CNPS 2018)

CRPR 1B.1 = Seriously threatened in California and elsewhere

CRPR 1B.2 = Fairly threatened in California and elsewhere

CRPR 1B.3 = Not very threatened in California and elsewhere

CRPR 2B.2 = Fairly threatened in California, but more common elsewhere

CRPR 4.2 = Fairly threatened in California, placed on a watch-list due to limited distribution throughout its range

CRPR 4.3 = Plant of limited distribution, not very threatened in California

Covered = Covered under the Orange County NCCP/HCP

Conditionally Covered = Conditionally Covered under the Orange County NCCP/HCP

Not covered = Not covered under the Orange County NCCP/HCP

## SENSITIVE WILDLIFE SPECIES WITH POTENTIAL TO OCCUR ONSITE

| Species                                                          | Status <sup>1</sup><br>Federal/State/County | Habitat Requirements                                                                                                                                                                                                                                                                                                                                       | Potential to Occur                                                                                |
|------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>CRUSTACEANS</b>                                               |                                             |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                   |
| San Diego fairy shrimp<br>( <i>Branchinecta sandiegonensis</i> ) | FE/--/Conditionally Covered                 | Known to occur in areas of swales/earth slump basins in grassland, chaparral and coastal sage scrub. Inhabit seasonally wet pools filled by winter/spring rains. Hatch in warm water later in the season.                                                                                                                                                  | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.        |
| <b>FISH</b>                                                      |                                             |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                   |
| Santa Ana sucker<br>( <i>Catostomus santaanae</i> )              | FT/SC/Not covered                           | Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, & algae.                                                                                                                                                                                                                                                                   | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.        |
| Tidewater goby<br>( <i>Eucyclogobius newberryi</i> )             | FE/SC/Not covered                           | Found in shallow brackish water habitats, lagoons and lower stream reaches. Require fairly still but not stagnant water & high oxygen levels.                                                                                                                                                                                                              | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.        |
| <b>AMPHIBIANS</b>                                                |                                             |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                   |
| Western spadefoot<br>( <i>Spea hammondi</i> )                    | --/SC/Covered                               | Prefers open areas with sandy or gravelly soils, in a variety of habitats including mixed woodlands, grasslands, chaparral, sandy washes, lowlands, river floodplains, alluvial fans, playas, alkali flats, foothills, and mountains. Rain pools or shallow temporary pools, which do not contain bullfrogs, fish, or crayfish are necessary for breeding. | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.        |
| <b>REPTILES</b>                                                  |                                             |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                   |
| Orange-throated whiptail<br>( <i>Aspidoscelis hyperythra</i> )   | --/SC/Covered                               | Species requires intact habitat within chaparral, cismontane woodland and coastal scrub plant communities. Prefers washes & other sandy areas with patches of brush & rocks. Perennial plants necessary for its major food-termites.                                                                                                                       | <b>Moderate.</b> Limited habitat is present on-site or within the immediate vicinity.             |
| Red-diamond rattlesnake<br>( <i>Crotalus ruber</i> )             | --/SC/Covered                               | Known to occur in chaparral, Mojavean desert scrub and Sonoran desert scrub communities. Occurs in rocky areas & dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.                                                                                                                                                         | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.        |
| Green sea turtle ( <i>Chelonia mydas</i> )                       | FT/--/Not covered                           | Known to occur in marine bays, this species is completely herbivorous; needs adequate supply of seagrasses and algae.                                                                                                                                                                                                                                      | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.        |
| Western pond turtle<br>( <i>Emys marmorata</i> )                 | --/SC/Not covered                           | Known to occur in slow-moving permanent or intermittent streams, ponds, small lakes, reservoirs with emergent basking sites; adjacent uplands used during winter.                                                                                                                                                                                          | <b>Low.</b> Suitable but low quality habitat is present on-site or within the immediate vicinity. |
| Coast horned lizard<br>( <i>Phrynosoma blainvillii</i> )         | --/SC/Covered                               | Known to occur in sandy washes with within chaparral or coastal scrub habitat. Requires loose soil for burial and abundant supply of harvester ants.                                                                                                                                                                                                       | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.        |

|                                                                                       |                        |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Two-striped garter snake<br>( <i>Thamnophis hammondi</i> )                            | --/SC/Not covered      | Habitat includes marsh and swamp, riparian scrub, riparian woodland, and wetland. Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.                                                      | <b>Low.</b> Suitable but low quality habitat is present on-site or within the immediate vicinity.                                                                                                     |
| <b>BIRDS</b>                                                                          |                        |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                       |
| Cooper's hawk<br>( <i>Accipiter cooperii</i> )                                        | --/WL/Not covered      | Found in riparian areas, and open woodlands, chiefly of open, interrupted or marginal type. Nests in riparian growths of deciduous trees and live oak woodlands.                                                                                        | <b>Present.</b> This species was observed on-site during 2015 biological surveys.                                                                                                                     |
| Sharp-shinned hawk<br>( <i>Accipiter striatus</i> )                                   | --/WL/Covered          | Ponderosa pine, black oak, riparian deciduous, mixed conifer & Jeffrey pine habitats. Prefers riparian areas. This species does not nest in coastal California.                                                                                         | <b>High.</b> Suitable foraging habitat is present on-site or within the immediate vicinity, but does not nest in coastal California. Observed within project vicinity during 2003 surveys (CCI 2004). |
| tricolored blackbird<br>( <i>Agelaius tricolor</i> )                                  | --/SC, BCC/Not covered | Known to occur in freshwater marsh, marsh, swamp, and wetland; highly colonial species, most numerous in Central Valley & vicinity. Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony. | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity.                                                                                                         |
| Southern California rufous-crowned sparrow<br>( <i>Aimophila ruficeps canescens</i> ) | --/WL/Covered          | Known to frequent relatively steep, often rocky hillsides with grass and forb species. Resident in southern California coastal sage scrub and mixed chaparral.                                                                                          | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity.                                                                                                         |
| Grasshopper sparrow<br>( <i>Ammodramus savannarum</i> )                               | --/SC/Not covered      | Known to occur in dense grasslands on rolling hills, lowland plains, in valleys & on hillsides on lower mountain slopes. Favors native grasslands with a mix of grasses, forbs & scattered shrubs.                                                      | <b>Low.</b> Limited, low quality habitat is present on-site or within the immediate vicinity.                                                                                                         |
| Great blue heron<br>( <i>Ardea herodias</i> )                                         | --/--/Not covered      | Colonial nester in tall trees, cliff sides, and sequestered spots on marshes. Rookery sites in close proximity to foraging areas: marshes, lake margins, tide-flats, rivers and streams, wet meadows.                                                   | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity. However, nesting habitat is very limited; not expected to nest in project site.                    |
| Burrowing owl<br>( <i>Athene cunicularia</i> )                                        | BCC/SC/Not covered     | Known to occur within open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. A subterranean nester dependent upon burrowing mammals, particularly the California ground squirrel.                   | <b>Low.</b> Low quality habitat is present on-site or within the immediate vicinity. No burrowing owls were detected during the 2015 focused burrowing owl surveys (Dudek 2015).                      |
| Ferruginous hawk<br>( <i>Buteo regalis</i> )                                          | BCC/SC/Not covered     | Found in open grasslands, sagebrush flats, desert scrub, low foothills and fringes of pinyon-juniper habitats. Also documented in dry and irrigated croplands. This species does not nest in Southern California.                                       | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.                                                                                                            |

|                                                                          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Swainson's hawk<br>( <i>Buteo swainsoni</i> )                            | BCC/ST/Not covered          | Breed in desert, shrub steppe, agricultural, and grassland habitats. Nests in a variety of tree species in existing riparian forests, remnant riparian trees, shade trees at residences and alongside roads, planted windbreaks, and solitary upland oaks. Typically do not nest in large continuous patches of woodland other than along edges next to open habitats. This species does not nest in coastal California. | <b>Moderate.</b> Limited to foraging only during migration – does not breed in the area. Suitable but limited foraging habitat is present on-site or within the immediate vicinity.                                                                                     |
| Coastal cactus wren<br>( <i>Campylorhynchus brunneicapillus cousei</i> ) | BCC/SC/Covered              | Known to occur in coastal scrub habitats; requires stands of prickly pear or cholla cactus for nesting and roosting.                                                                                                                                                                                                                                                                                                     | <b>Low.</b> Very limited, isolated cactus on-site so not expected to occur due to lack of suitable habitat on-site or within the immediate vicinity.                                                                                                                    |
| Western snowy plover<br>( <i>Charadrius alexandrinus nivosus</i> )       | FT, BCC/SC/Not covered      | Will nest beside or near tidal waters, and includes all nesting colonies on the mainland coast, peninsulas, offshore islands, adjacent bays and estuaries                                                                                                                                                                                                                                                                | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.                                                                                                                                                                              |
| Northern harrier<br>( <i>Circus cyaneus</i> )                            | --/SC/Covered               | Coastal salt & fresh-water marsh. Nest & forage in grasslands, from salt grass in desert sink to mountain cienagas. Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.                                                                                                                                                                                    | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity. Observed within project vicinity during 2003 surveys (CCI 2004). However, nesting habitat is very limited and low quality; not expected to nest in Project vicinity. |
| Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> ) | FT/SE, BCC/Not covered      | Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.                                                                                                                                                                                                         | <b>Low.</b> Limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                        |
| Yellow rail<br>( <i>Coturnicops noveboracensis</i> )                     | --/SC, BCC/Not covered      | Known to occur within freshwater marshlands, meadows and seeps.                                                                                                                                                                                                                                                                                                                                                          | <b>Low.</b> Limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                        |
| White-tailed kite<br>( <i>Elanus leucurus</i> )                          | --/FP/Not covered           | Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.                                                                                                                                                                                  | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity. Observed within project vicinity during 2003 surveys (CCI 2004) and on-site in 2015 (Dudek 2015).                                                                    |
| Southwestern willow flycatcher<br>( <i>Empidonax traillii extimus</i> )  | FE/SE/Conditionally Covered | Breeds in dense willow-dominated riparian habitat near open water.                                                                                                                                                                                                                                                                                                                                                       | <b>Moderate.</b> Limited habitat is present on-site or within the immediate vicinity. In addition, no southwestern willow flycatcher were observed within the study area during the 2015 focused riparian bird surveys (Dudek 2015).                                    |
| California horned lark<br>( <i>Eremophila alpestris actia</i> )          | --/WL/Not covered           | Known to occur within the vicinity of marine intertidal and splash zone communities, short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats, and seeps.                                                                                                                                                                                                             | <b>Low.</b> Limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                        |



|                                                                                  |                           |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Merlin<br>( <i>Falco columbarius</i> )                                           | --/WL/Not covered         | Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands & deserts, farms & ranches. Clumps of trees or windbreaks are required for roosting in open country.                                                                     | <b>Moderate.</b> Suitable but limited foraging habitat is present. This species may visit occasionally in winter but is not known to nest this far south.                                                                                                                                                                                                                         |
| American peregrine falcon<br>( <i>Falco peregrinus anatum</i> )                  | DL/DL, FP,<br>BCC/Covered | Known to occur near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nest consists of a scrape or a depression or ledge in an open site.                                                     | <b>Moderate.</b> Suitable foraging habitat is present on-site or within the immediate vicinity. Observed within project vicinity during 2003 surveys (CCI 2004). Marginally suitable nesting habitat occurs within the vicinity on bluff faces, but not within the Phase 2A project site.                                                                                         |
| Yellow-breasted chat<br>( <i>Icteria virens</i> )                                | --/SC/Not covered         | Known to occur within riparian forest, scrub and woodland habitats.                                                                                                                                                                                | <b>Present.</b> This species was observed on-site during 2015 biological surveys.                                                                                                                                                                                                                                                                                                 |
| Least bittern<br>( <i>Ixobrychus exilis</i> )                                    | BCC/SC/Not covered        | Colonial nester in marshlands and borders of ponds and reservoirs which provide ample cover. Nests usually placed low in tules, over water.                                                                                                        | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                |
| Loggerhead shrike<br>( <i>Lanius ludovicianus</i> )                              | BCC/SC/Not covered        | Broken woodlands, savannah, pinyon-juniper, Joshua tree, & riparian woodlands, and desert oases, scrub & washes. Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.                       | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                |
| California black rail<br>( <i>Laterallus jamaicensis coturniculus</i> )          | BCC/ST, FP/Not covered    | Known to occur in brackish and freshwater marshes. Inhabits riparian thickets of willow & other brushy tangles near watercourses. Needs water depths of about 1 inch that do not fluctuate during the year & dense vegetation for nesting habitat. | <b>Low.</b> Very limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                                                                                             |
| Osprey<br>( <i>Pandion haliaetus</i> )                                           | --/WL/Not covered         | Ocean shore, bays, fresh-water lakes, and larger streams. Large nests built in tree-tops within 15 miles of a good fish-producing body of water.                                                                                                   | <b>Present.</b> Suitable habitat is present on-site or within the immediate vicinity. Observed foraging in the project vicinity during 2003 surveys (CCI 2004), and on the border of the study area during 2015 surveys (Dudek 2015). Osprey are known to nest at the Back Bay Science Center area approximately one mile to the south, but not expected within the project site. |
| Belding's savannah sparrow<br>( <i>Passerculus sandwichensis beldingi</i> )      | --/SE/Not covered         | Inhabits coastal salt marshes. Nests in pickleweed on and about margins of tidal flats.                                                                                                                                                            | <b>Low.</b> Very limited habitat, which is not influenced by tides, is present on-site or within the immediate vicinity, though there is suitable habitat nearby outside of the study area.                                                                                                                                                                                       |
| Coastal California gnatcatcher<br>( <i>Poliophtila californica californica</i> ) | FT/SC/Covered             | Species is an obligate, permanent resident of coastal sage scrub in southern California. Low, coastal sage scrub in arid washes, on mesas and slopes.                                                                                              | <b>Present.</b> This species was observed within the study area (but outside of the Phase 2A project site) during 2015 biological surveys.                                                                                                                                                                                                                                        |

|                                                                              |                             |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Light-footed Ridgway's rail<br>( <i>Rallus obsoletus levipes</i> )           | FE/SE, FP/Not covered       | Found in salt marshes traversed by tidal sloughs, where cordgrass and pickleweed are the dominant vegetation. Requires dense growth of either pickleweed or cordgrass for nesting or escape cover; feeds on molluscs and crustaceans. | <b>Low.</b> Very limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                                 |
| Bank swallow<br>( <i>Riparia riparia</i> )                                   | --/ST/Not covered           | Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.                     | <b>Low.</b> Suitable nesting habitat is not present on-site or within the immediate vicinity, though foraging possible.                                                                                                                                                                               |
| Black skimmer ( <i>Rynchops niger</i> )                                      | --/SC, BCC/Not covered      | Known to occur in alkali playas and sand shores, this species nests on gravel bars, low islets, and sandy beaches, in unvegetated sites.                                                                                              | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.                                                                                                                                                                                                            |
| Yellow warbler<br>( <i>Setophaga petechia</i> )                              | BCC/SC/Not covered          | Riparian plant associations in close proximity to water. Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.                         | <b>Present.</b> This species was observed on-site during 2015 biological surveys.                                                                                                                                                                                                                     |
| California least tern<br>( <i>Sterna antillarum browni</i> )                 | FE/SE, FP/Not covered       | Known to occur in alkali playas and coastal dune and beach habitats. Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, landfills, or paved areas.                                          | <b>Low.</b> Suitable nesting habitat is not present on-site or within the immediate vicinity, though may forage in the vicinity.                                                                                                                                                                      |
| Least Bell's vireo<br>( <i>Vireo bellii pusillus</i> )                       | FE/SE/Conditionally Covered | Known to occur in riparian forest, scrub, and woodland habitats. Nests primarily in willow, baccharis, or mesquite habitats.                                                                                                          | <b>High.</b> Suitable habitat is present on-site or within the immediate vicinity. However, no least Bell's vireo were observed within the study area during the 2015 focused riparian bird surveys (Dudek 2015). This species has been observed within the study area in previous years (RMMP 2016). |
| <b>MAMMALS</b>                                                               |                             |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                       |
| Southern California saltmarsh shrew<br>( <i>Sorex ornatus salicornicus</i> ) | --/SC/Not covered           | Known to occur in salt marsh habitat within Southern California. Requires dense vegetation and woody debris for cover.                                                                                                                | <b>Moderate.</b> Suitable but limited habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                    |
| Pallid bat<br>( <i>Antrozous pallidus</i> )                                  | --/SC/Not covered           | Known to occur in a wide variety of habitats including deserts, grasslands, shrublands, woodlands & forests. Most common in open, dry habitats with rocky areas for roosting; particularly associated with buildings and bridges.     | <b>Moderate to High.</b> Suitable habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                        |
| Pacific pocket mouse<br>( <i>Perognathus longimembris pacificus</i> )        | FE/SC/Covered               | Known to occur in coastal scrub habitats. Seems to prefer soils of fine alluvial sands of coastal plains.                                                                                                                             | <b>Unlikely.</b> Suitable habitat is not present on-site or within the immediate vicinity.                                                                                                                                                                                                            |
| San Diego desert woodrat<br>( <i>Neotoma lepida intermedia</i> )             | --/SC/Covered               | Known to occur in coastal scrub, desert scrub, chaparral, cactus, and rocky habitats.                                                                                                                                                 | <b>Moderate to High.</b> Suitable habitat is present on-site or within the immediate vicinity.                                                                                                                                                                                                        |

---

<sup>1</sup> Description of status codes:

FE = Listed as endangered under the FESA

FT = Listed as threatened under the FESA

DE = Delisted under the FESA

SE = Listed as endangered under the CESA

ST = Listed as threatened under the CESA

FP = Listed as fully protected under CDFW code

SC = Species of Special Concern

BCC = Bird of Conservation Concern

WL = Watch listed

Covered = Covered under the County of Orange NCCP/HCP

Conditionally Covered = Conditionally Covered under the County of Orange NCCP/HCP

Not covered = Not covered under the County of Orange NCCP/HCP

---

# Appendix D

## **Phase 1 Cultural Resources Study/Archaeological Research Plan**

**NON-CONFIDENTIAL PUBLIC VERSION**

# BIG CANYON COASTAL HABITAT RESTORATION AND ADAPTATION PROJECT – PHASE 2A

## Phase I Cultural Resources Study/Archaeological Research Plan

Prepared for  
Newport Bay Conservancy

July 2018



**NON-CONFIDENTIAL PUBLIC VERSION**

# BIG CANYON COASTAL HABITAT RESTORATION AND ADAPTATION PROJECT – PHASE 2A

## Phase I Cultural Resources Study/Archaeological Research Plan

July 2018

Prepared for:  
Newport Bay Conservancy

Prepared by:  
ESA  
550 West C Street, Suite 750  
San Diego, California 92101

Principal Investigator:  
Michael R. Bever, PhD, RPA



Authors:  
Matthew Gonzalez, B.A.  
Michael R. Bever, PhD, RPA  
Alyssa Bell, PhD

**Project Location:** Newport Beach (CA) USGS 7.5' Topographic Quad  
Township 6 South, Range 10 West, Section 25

**Acreage:** 11.3 acres

550 West C Street  
Suite 750  
San Diego, CA 92101  
619.719.4200  
[www.esassoc.com](http://www.esassoc.com)

|              |            |               |
|--------------|------------|---------------|
| Bend         | Oakland    | San Francisco |
| Camarillo    | Orlando    | Santa Monica  |
| Delray Beach | Pasadena   | Sarasota      |
| Destin       | Petaluma   | Seattle       |
| Irvine       | Portland   | Sunrise       |
| Los Angeles  | Sacramento | Tampa         |
| Miami        | San Diego  |               |

171063.00

**OUR COMMITMENT TO SUSTAINABILITY** | ESA helps a variety of public and private sector clients plan and prepare for climate change and emerging regulations that limit GHG emissions. ESA is a registered assessor with the California Climate Action Registry, a Climate Leader, and founding reporter for the Climate Registry. ESA is also a corporate member of the U.S. Green Building Council and the Business Council on Climate Change (BC3). Internally, ESA has adopted a Sustainability Vision and Policy Statement and a plan to reduce waste and energy within our operations. This document was produced using recycled paper.

# Statement of Confidentiality

This report contains confidential cultural resources location information and distribution of this report is restricted. Cultural resources are nonrenewable, and their scientific, cultural, and aesthetic values can be significantly impaired by disturbance. To deter vandalism, artifact hunting, and other activities that can damage cultural resources, the locations of cultural resources are confidential. The legal authority to restrict cultural resources information is in subdivision (r) of Section 6254 and Section 6254.10 of the California Government Code, subdivision (d) of Section 15120 of Title 14 of the California Code of Regulations, Section 304 of the National Historic Preservation Act of 1966, as amended, and Section 9 of the Archaeological Resources Protection Act.



# TABLE OF CONTENTS

---

## Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A, Phase I Cultural Resources Study/Archaeological Research Plan

|                                                    | <u>Page</u> |
|----------------------------------------------------|-------------|
| <b>Executive Summary .....</b>                     | <b>ES-1</b> |
| <b>Introduction .....</b>                          | <b>1</b>    |
| <b>Project Location .....</b>                      | <b>2</b>    |
| <b>Project Description .....</b>                   | <b>2</b>    |
| <b>Area of Potential Effects .....</b>             | <b>6</b>    |
| <b>Setting .....</b>                               | <b>7</b>    |
| <b>Regulatory Framework .....</b>                  | <b>12</b>   |
| Federal .....                                      | 12          |
| State .....                                        | 14          |
| Local .....                                        | 19          |
| <b>Background Research .....</b>                   | <b>24</b>   |
| SCCIC Records Search .....                         | 24          |
| Historic Maps and Aerial Photographs .....         | 28          |
| <b>Native American Outreach .....</b>              | <b>29</b>   |
| <b>Paleontological Resources .....</b>             | <b>30</b>   |
| Natural History Museum of Los Angeles County ..... | 30          |
| Geologic Map & Literature Review .....             | 30          |
| <b>Cultural Resources Survey .....</b>             | <b>32</b>   |
| Methods .....                                      | 32          |
| Results .....                                      | 32          |
| <b>Conclusion and Recommendations .....</b>        | <b>35</b>   |
| Cultural Resources .....                           | 35          |
| Paleontological Resources .....                    | 38          |
| Section 106 Finding .....                          | 39          |
| <b>References Cited .....</b>                      | <b>40</b>   |

### Appendices

- A. Personnel
- B. Sacred Lands File Search

## Figures

|   |                         |    |
|---|-------------------------|----|
| 1 | Regional Location ..... | 3  |
| 2 | Project Vicinity .....  | 4  |
| 3 | Aerial Overview .....   | 5  |
| 4 | Geology .....           | 31 |
| 5 | Survey Coverage .....   | 33 |
| 6 | Survey Conditions ..... | 34 |

## Tables

|   |                                                                                                           |    |
|---|-----------------------------------------------------------------------------------------------------------|----|
| 1 | Previous Cultural Resources Investigations Conducted within 0.5-mile of<br>the Phase 2 Project Area ..... | 25 |
| 2 | Previously Recorded Cultural Resources within 0.5-mile of the Phase 2A<br>Project Area .....              | 28 |

# **Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A**

---

## **Phase I Cultural Resources Study/ Archaeological Research Plan**

### **Executive Summary**

Newport Bay Conservancy (NBC), through the Big Canyon Creek Restoration Project – Phase 2A (project), proposes to restore historic riparian habitat, improve water quality, remove non-native vegetation and replace it with native plantings, and allow for better public access within the natural areas of the Big Canyon Creek Watershed. The project will involve the preparation of an Initial Study and Mitigated Negative Declaration (IS/MND) per the California Environmental Quality Act (CEQA), with the City of Newport Beach (City) as the lead agency. The study complies with the City's Municipal Code, Part 3, Section 21.30.105, Cultural Resources Protection, and fulfills the requirements described therein for an Archaeological Research Plan (ARP). The project will also require a Section 404 permit from the U.S. Army Corps of Engineers (USACE), which requires compliance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended. This document reports on cultural resource studies undertaken for the project.

The project is located within the Big Canyon Creek watershed in the City of Newport Beach, Orange County, California. Newport Bay Conservancy (NBC) proposes to implement the next phases of restoration within Big Canyon as part of a multi-phase restoration project within the 60-acre Big Canyon Nature Park. Phase 1 of the restoration, which is upstream of the project site, has been completed by the City of Newport Beach (City) and is currently in the post-construction maintenance phase. Phase 2 of the restoration would likely be implemented in stages and is subdivided into Sites 2A, 2B and 2C. Phase 2A is the next phase to be implemented downstream of Phase 1. Restoration of this area includes invasive plant removal and channel recontouring, followed by native plant revegetation and management to restore riparian and upland habitats.

For purposes of compliance with Section 106, an Area of Potential Effects (APE) was established that coincides with all areas of potential ground disturbance, including access roads and staging areas. The APE covers a total of 11.3 acres; for purposes of this cultural resource studies, it is assumed that it may extend up to five feet below ground surface, though this likely overestimates the actual depth. A records search for the project was conducted on March 14, 2018 through the South Central Coastal Information Center (SCCIC) housed at California State University, Fullerton. The records search covered project Phases 2A, 2B, and 2C, as well as a 0.5-mile buffer. This records search supplements a previous records search commissioned through the SCCIC on March 19, 2015 for Phase 1 of the project (Bever et. al. 2016). Since the previous records search encompassed most of the current records search radius, the current records search focused on

sites and studies that fell outside the previous records search buffer, and sites and studies that have been filed at the SCCIC since the original records search was conducted. The records search indicated that 21 previous cultural resources studies have been conducted within 0.5-mile of the project area, covering approximately 95 percent of the 0.5-mile search radius. Of these 21 studies, six appear to have included portions of the project area; however, only three studies (OR 638, -1012, and -1097) were survey projects. These studies appear to have covered approximately 20 percent of the project area; the remaining 80 percent of the project area appears not to have been subject to any previous survey. The records search also indicated that no built environmental and a total of 13 prehistoric archaeological resources have been previously recorded within a 0.5-mile radius of the project area. Of these, none have been previously recorded within the project area; however, six of the prehistoric archaeological sites (CA-ORA-150, -151, -152, -153, -154, and -155 are located within approximately 0.15 miles or less of the project area.

Historic maps and aerial photographs were examined to provide historical information about the Phase 2A project area and to contribute to an assessment of the archaeological sensitivity of the project area. In sum, the historic map and aerial photograph review indicates that due to the construction of Back Bay Drive to the west of the project area, and Jamboree Road to the east of the project area, an artificial accumulation of sediments likely has occurred within Phase 2A project area.

ESA contacted the NAHC on March 18, 2018 to request a search of the SLF. In a letter response dated March 20, 2018, the NAHC indicated that “sites have been located within several of the quadrangles” provided and they may be impacted by the project. Pursuant to AB 52, the City sent letters to the three contacts on the City’s AB 52 consultation list. The letters described the project, provided a project map, and invited the individuals to consult on the project. Individuals contacted included: Mr. Andrew Salas, Chairperson of the Gabrieleño Band of Mission Indians – Kizh Nation, by letter dated March 16, 2018; Ms. Joyce Stanfield Perry, Tribal Manager of the Juaneño Band of Mission Indians, Acjachemen Nation, by letter dated March 19, 2018; and Mr. Anthony Morales, Chairperson of the San Gabriel Band of Mission Indians, by letter dated March 19, 2018. One response was received. By letter dated March 29, 2018, Mr. Andrew Salas of the Gabrieleño Band of Mission Indians – Kizh Nation requested consultation. As part of consultation, the tribe requested a field visit to the project site. On May 17, 2018 City and tribal representatives conducted a walkover of the project site. Mr. Salas indicated that while permanent encampments were not likely to occur within the canyon, there may have been temporary day camps in the project area. Mr. Salas further indicated that monitoring during Phase 2 construction activities would be sufficient for protecting any cultural resources that might be encountered during project implementation. The City has agreed to include monitoring provisions. Finally, prior to the City’s outreach efforts, Mr. Andrew Salas provided the City with documentation concerning the extent of the tribe’s traditional territory, the proper name for the tribe, and a list of known ethnographic villages in the area. Consultation required by AB 52 is considered complete, though the City will continue to coordinate with involved tribal representatives.

A cultural resources pedestrian survey of the project area was conducted by Matthew Gonzalez, B.A., and Henry Chodsky, B.A., on March 15, 2018. Accompanying them was Native American representative Gabriel Lopez of the Juaneño Band of Mission Indians, retained through the Gabrieleño Band of Mission Indians – Kizh Nation. Ground visibility was poor, averaging around

10-15 percent, though a few areas were more exposed and had visibility of 90 to 100 percent. Other areas were inaccessible due to either water in the creek or dense, impenetrable vegetation. These areas were examined to the extent possible. Given this, a total of approximately 5-acres of the 11.3-acre project area could be accessed for intensive survey. The rest was assessed at a reconnaissance level. No cultural resources were identified during the survey. Much of the project area occurs in active channel and floodplain, where surficial exposure of archaeological resources would not be expected. It has also been determined through archival research using historical maps and aerial imagery that much of the sediment in the project area are a result of recent accumulation, and prehistoric archaeological resources would not be expected to occur on top of these sediments within an active floodplain. While numerous specimens of shell were encountered throughout the project area, some in concentrations, various lines of evidence indicate that the shell is not an archaeological phenomenon, and rather represents a natural accumulation, likely due to natural processes such as animal predation.

While no cultural resources were identified through the records search or field survey, background research, Native American outreach, and a search of the SLF indicate that the immediate vicinity of the project area is sensitive for prehistoric archaeological resources. Existing data show that known archaeological sites in the area tend to occur atop higher elevation bluffs and mesas, and not within the canyon and active channel of the project area itself; however, the project area still should be viewed as sensitive for archaeological resources, and ground disturbing activity, though confined to the upper two to three feet, does have some potential to impact any buried resources that might be present. To minimize potential impacts to resources, the concluding section of this report provides recommendations. These measures include worker sensitivity training and protocols for the treatment of unanticipated discoveries of cultural resources and including human remains. The recommendations follow the requirements for an ARP as contained within the Part 3, Section 21.30.105 of the City's Municipal Code.

To assess the paleontological sensitivity of the project site, an ESA paleontologist conducted a review of geologic mapping and the scientific literature, and reviewed a paleontological records check from the Natural History Museum of Los Angeles County (LACM) for Phase 1 of the project. Geologic mapping indicates the surficial geology of the project area consists of Young Axial-Channel Deposits and the Monterey Formation. While the LACM records search did not identify any known fossil localities in the project area, there are known fossil localities from both older alluvial sediments and the Monterey Formation in the area. The Young Axial-Channel Deposits are assigned low-to-high paleontological sensitivity, increasing with depth, while the Monterey Formation is assigned high paleontological sensitivity. Paleontological mitigation recommendations are provided in the final section and include worker sensitivity training, paleontological monitoring of any work within paleontologically sensitive formations (i.e., depths greater than five feet), and protocols for unanticipated discoveries. The recommendations also follow Part 3, Section 21.30.105 of the City's Municipal Code.

Based on the results of background research and a field survey, which did not identify any resources with the project area, and with the implementation of the mitigation measures provided in the *Conclusions and Recommendations* section of this report, it appears that the project will have **no adverse effect** on historic properties.

# Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A

---

## Phase I Cultural Resources Study/ Archaeological Research Plan

### Introduction

This report provides the results of cultural and paleontological resources study conducted for the proposed Big Canyon Creek Restoration Project – Phase 2A (project). Newport Bay Conservancy (NBC) proposes to implement the next phases of restoration within Big Canyon as part of a multi-phase restoration project within the 60-acre Big Canyon Nature Park. Environmental Science Associates (ESA) is currently preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the project in support of the California Environmental Quality Act (CEQA), with the City of Newport Beach (City) as the lead agency. The study complies with the City's Municipal Code, Part 3, Section 21.30.105, Cultural Resources Protection, and fulfills the requirements described therein for an Archaeological Research Plan (ARP). ESA is also providing permitting services, including obtaining a Section 404 permit from the U.S. Army Corps of Engineers (USACE), which requires compliance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended.

The cultural resources assessment included a records search at the South Central Coastal Information Center (SCCIC), which supplemented the search conducted for Phase 1 of the project, and a search of the California Native American Heritage Commission (NAHC) Sacred Lands File (SLF). Consultation required by Assembly Bill (AB) 52 between the City and Native American parties is ongoing. A pedestrian archaeological survey was conducted subsequent to the background studies. The paleontological resources assessment is based on a records check at the Natural History Museum of Los Angeles County (LACM) conducted for Phase 1 of the project, as well as a review of geologic mapping and the scientific literature.

ESA personnel involved in the preparation of this report include: Michael R. Bever, Ph.D., RPA, principal investigator and report author; Matthew Gonzalez, B.A., surveyor and report author; Alyssa Bell, Ph.D., report author; Henry Chodsky, B.A., surveyor; and Jessie Lee, B.A., GIS specialist. Resumes of key personnel are provided in **Appendix A**.

## Project Location

The project is located in the City of Newport Beach (**Figure 1**). Big Canyon Creek Watershed covers approximately two square miles and drains directly into Upper Newport Bay. The creek flows from southeast to northwest through the 60-acre Big Canyon Creek Nature Park, ultimately draining into Upper Newport Bay. The lower portion of Big Canyon is within the Upper Newport Bay State Ecological Reserve. Big Canyon is the only natural, undeveloped portion of the Big Canyon Creek watershed, and the only significant remaining natural canyon on the east side of Newport Bay.

Phase 2A of the project is situated on a 11.3-acre site in the central portion of the 60-acre Big Canyon Nature Park. As shown in Figure 1, the project area is east of Upper Newport Bay, west of Jamboree Road and includes Big Canyon Creek. The project area is bounded by residential developments on the bluffs to the north and south. Land uses within the project vicinity include residential, recreational open space, golf courses, and commercial developments. The project is located in Section 25 of Township 6 South/Range 10 West on the United States Geological Survey (USGS) Newport Beach (Digital) 7.5-minute topographic quadrangle (**Figure 2**). An aerial image showing the project area is included as **Figure 3**.

## Project Description

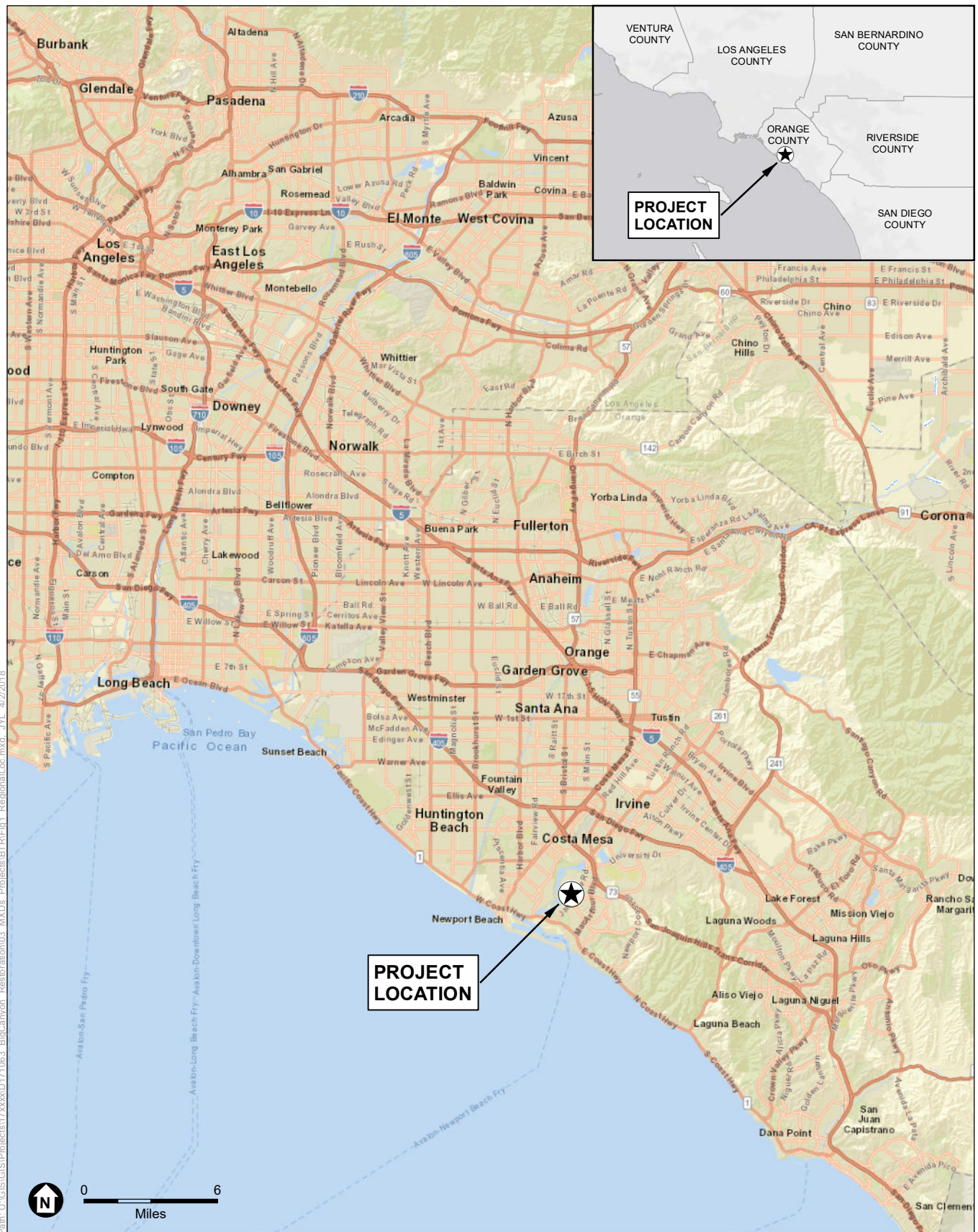
NBC proposes to implement the next phases of restoration within Big Canyon as part of a multi-phase restoration project within the 60-acre Big Canyon Nature Park. Phase 1 of the restoration, which is upstream of the project site, has been completed by the City and is currently in the post-construction maintenance phase. Phase 2 of the restoration would likely be implemented in stages and is subdivided into Sites 2A, 2B and 2C.

The project proposes to vegetate and stabilize the creek banks and restore connectivity with the floodplain, restore riparian habitat by removing non-native vegetation and planting native species, restore and create a mosaic of native and resilient habitats that promote biodiversity and healthy ecosystems, and enhance public access and education with improved trails and closure of illegal trails. The proposed project is planned within the context provided in the Big Canyon Resource and Recreation Management Plan (RRMP) (IRC & Dudek, 2016). The RRMP provides a framework for restoration and recreational improvements in the Nature Park that will be consistent with the requirements of the Natural Community Conservation Plan/Habitat Conservation Plan (NCCP) for the Central and Coastal sub-region of Orange County in the event the City elects to incorporate the Nature Park into the NCCP.

The proposed project restoration efforts will benefit the Big Canyon Nature Park through:

- Removal of Exotic and Invasive Plants and Replanting with Native Vegetation to Create a Mosaic of Coastal Habitats
- Restoration, Enhancement and Improvement in the Resiliency of Riparian Habitat
- Creation of Wet and High Alkali Meadow Habitat to Improve Resiliency of Restored Habitats



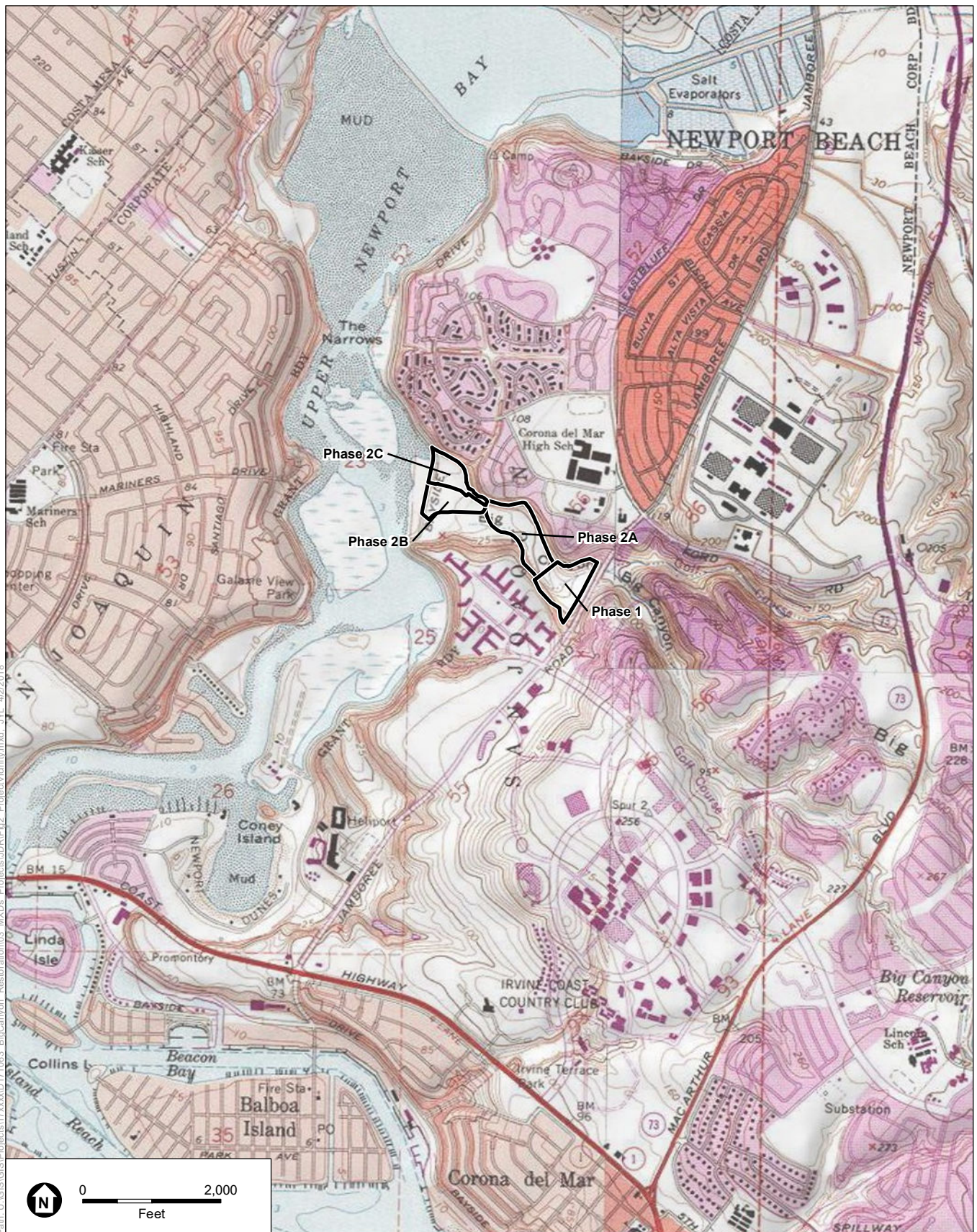


SOURCE: ESRI

Big Canyon Restoration - Phase 2A

**Figure 1**  
Regional Location





SOURCE: USGS 7.5' Topo Quad Newport Beach 1977

Big Canyon Restoration - Phase 2A

**Figure 2**  
Project Vicinity





SOURCE: ESRI; Digital Globe 10/21/2016

Big Canyon Restoration - Phase 2A

**Figure 2**  
Aerial Overview

- Reduction of Creek Channel Erosion and Restoration of Connectivity between the Creek Channel and Floodplain
- Remediation of Favorable Mosquito Breeding Habitat
- Improvement in the Big Canyon Creek Water Quality and Benthic Habitat
- Encouragement in Public Access and Improvement in Educational and Recreational Opportunities

The project will involve removal of invasive and exotic plants, which involves clearing and grubbing, planting of native species, sloping and other modification of existing channel banks, levelling and grading to remove mosquito breeding habitat, public access trail enhancement and installation of signage. The activities include excavation, grubbing, use of heavy equipment, and other ground disturbing activities that have the potential to impact cultural and paleontological resources. According to current design plans, these activities will only impact the upper two feet below ground surface.

## Area of Potential Effects

Due to the involvement of the USACE, the project will be subject to the requirements of Section 106 of the NHPA. Given this, an Area of Potential Effects (APE) was established for the project. According to Section 106 of the NHPA, as amended, an APE is defined as:

*the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist. The APE is influenced by the scale and nature of an undertaking and may be different for different kinds of effects caused by the undertaking (36 CFR 800.16[d]).*

For purposes of the project, the APE coincides with the Phase 2A project area as shown in Figures 2 and 3, and as such, the term “project area” used throughout this document refers to the APE as well. The APE has been defined as the area, surface and subsurface, that could experience ground disturbance as a result of proposed project activities, including all of the components mentioned in the preceding section, as well as access roads, staging areas, and areas of vegetation removal. Based on these considerations, the total acreage for the APE is 11.3 acres. The extent of vertical disturbance will vary throughout the project, based on project designs for the various components and the potential for ground disturbance within each. For the purposes of this study, the vertical APE was established to account for this uncertainty in the depth of excavation. According to current design, this should amount to the upper two feet only, and only in certain areas (e.g., in areas of tree removal and adjacent to incised creek channels). However, to account for modification in project design, and for purposes of establishing a vertical APE, it is assumed that ground disturbance may extend up to a maximum of five feet below ground surface throughout the APE.

# Setting

## Environmental Setting

The proposed project is located within the western portion of the City, in Orange County. The topography of Orange County includes a combination of mountains, hills, flatlands, and shorelines. Urbanized Orange County is predominantly within an alluvial plain, semi-enclosed by the Puente and Chino Hills to the north, the San Joaquin Hills to the south, and the Santiago Foothills and the Santa Ana Mountains to the east. The Puente and Chino Hills, which identify the northern limit of the plains, extend for 22 miles and reach a peak height of 7,780 feet (ft). To the east and southeast of the plains are the Santa Ana Mountains, which have a peak height of 5,691 ft. Big Canyon Creek traverses the project area and flows from southeast to northwest passing under Jamboree Road through a culvert, through Big Canyon Nature Park, and ultimately drains into Upper Newport Bay. Big Canyon is the only natural, undeveloped portion of the Big Canyon Creek Watershed, and the only significant remaining natural canyon on the east side of Newport Bay.

## Prehistoric Context

The prehistory of the region has been summarized within four major horizons or cultural periods: Early [10,000 to 8,000 before present (B.P.)], Millingstone (8,000 to 3,000 B.P.), Intermediate (3,000 to 1,500 B.P.), and Late Prehistoric (1,500 B.P. to A.D. 1769) (Wallace 1955; Warren 1968).

### ***Early Period (10,000 to 8,000 B.P.)***

The southern California coast may have been settled as early as 10,000 years ago (Jones 1992). These early inhabitants were likely maritime adapted groups exploiting shellfish and other marine resources found along the coastline (Dixon 1983; Erlandson 1994; Vellanoweth and Altschul 2002). One site located in Newport Bay, Orange County (CA-ORA-64) dates to approximately 9,500 years B.P. and suggests early intensive utilization of shellfish, fish, and bird resources (Drover et al. 1983; Macko 1998).

### ***Millingstone Period (8,000 to 3,000 B.P.)***

The Millingstone period dates to about 8,000 to 3,000 B.P. The transition from the Early Period to the Millingstone period is marked by an increased emphasis on the processing of seeds and edible plants. The increased utilization of seeds is evident by the high frequencies of handstones (manos) and milling slabs (metates). Around 5,000 B.P., mortar and pestles appear in the archaeological record. Mortars and pestles suggest the exploitation of acorns (Vellanoweth and Altschul 2002).

Millingstone period sites in Orange County generally date to between 8,000 and 4,000 B.P. Archaeological evidence suggests a low, stable population centered around semi-permanent residential bases. These sites are located along coastal marine terraces, near the shoreline, bays, or estuaries. Satellite camps were used to take advantage of seasonally available resources. Marine resources were supplemented by seeds and small terrestrial mammals. Later Millingstone period sites indicate a growing reliance on shellfish (Cleland et al. 2007).

***Intermediate Period (3,000 to 1,500 B.P.)***

The Intermediate period dates to between 3,000 to 1,500 B.P. Archaeological sites indicate a broader economic base, with increased reliance on hunting and marine resources. An expanded inventory of milling equipment is found at sites dated to this period. Intermediate period sites are characterized by the rise of the mortar and pestle and small projectile points (Cleland et al. 2007).

The number of Intermediate period sites in Orange County declined over time, particularly around Newport Bay. Climate changes and drier conditions led to the congregation of populations near freshwater sources. Settlement patterns indicate greater sedentism, with reduced exploitation of seasonal resources and a lack of satellite camps. Coastal terrace sites are not reoccupied during this time period. These shifts in settlement and subsistence strategies led to growing population densities, resource intensification, higher reliance on labor-intensive technologies, such as the circular fishhook, and more abundant and diverse hunting equipment. Rises in disease and inter-personal violence, visible in the archaeological record, may be due to the increased population densities (Cleland et al. 2007; Raab et al. 1995).

***Late Prehistoric Period (1,500 B.P. to A.D. 1769)***

The Late Prehistoric period began around 1,500 B.P. and lasted until Spanish contact in 1769. The Late Prehistoric period resulted in concentration of larger populations in settlements and communities, greater utilization of the available food resources, and the development of regional subcultures (Cleland et al. 2007). Artifacts from this period include milling implements, as well as bone and shell tools and ornaments.

Newport Bay and San Joaquin Hills, abandoned during the Intermediate period, were reoccupied during the Late Prehistoric period. These settlements were smaller than in the Intermediate. Village sites were located in areas with a multitude of resources. Small collector groups moved between a small number of these permanent settlements (Cleland et al. 2007).

**Ethnographic Setting**

The proposed project is located at the southern extent of Gabrielino-Kizh-Tongva territory, near the boundary with the Juaneño–Acjachemen territory to the south. Traditionally, the boundary between the two is identified as either Aliso Creek or the drainage divide to the north of the creek, roughly 10 and 5 miles south of the project area, respectively. While this boundary places the project within Gabrielino-Tongva territory, both tribes are described in the sections below.

***Gabrielino-Kizh-Tongva***

Prior to European colonization, the Gabrielino, or Kizh or Tongva (as preferred by different organizations), a Takic-speaking group, occupied a diverse area that included: the watersheds of the Los Angeles, San Gabriel, and Santa Ana rivers; the Los Angeles basin; and the islands of San Clemente, San Nicolas, and Santa Catalina (Kroeber, 1925). Mr. Anthony Salas, Chairperson of the Gabrieleño Band of Mission Indians – Kizh Nation, provided information on known ethnographic village sites in the project vicinity. These include Lukupangna, Lopuuknga, Moyonga (or Moyo), Kengaa, and Kenyaanga (or Kenyaangna), two of which are located near Newport Beach. For reasons of confidentiality, more specific locations are not provided. The Gabrielino-

Kizh-Tongva are reported to have been second only to the Chumash in terms of population size and regional influence (Bean and Smith, 1978).

The Gabrielino-Kizh-Tongva Indians were hunter-gatherers and lived in permanent communities located near the presence of a stable food supply. Community populations generally ranged from 50-100 inhabitants, although larger settlements may have existed. The Gabrielino-Kizh-Tongva are estimated to have had a population numbering around 5,000 in the pre-contact period, with many recorded villages along the drainages mentioned above and in the Los Angeles basin proper (Kroeber, 1925).

Beginning with the Spanish Period and the establishment of Mission San Gabriel Arcángel, Native Americans throughout the Los Angeles area suffered severe depopulation and their traditional culture was radically altered. Nonetheless, Gabrielino-Kizh-Tongva descendants still reside in the greater Los Angeles and Orange County areas and maintain an active interest in their heritage.

### ***Juaneño-Acjachemen***

The Juaneño or Acjachemen, also Takic-speaking, occupied a more restricted area extending across southern Orange County and northern San Diego County. Juaneño territory extended along the Pacific coast from midway between Arroyo San Onofre and Las Pulgas Canyon in the south to Aliso Creek in the north, and continued east into the Santa Ana Mountains from Santiago Peak in the northwest to the headwaters of Arroyo San Mateo in the southeast (Kroeber 1925). The Juaneño were bounded by the Gabrieliño to the north, and the Luiseño to the east and south.

The Juaneño-Acjachemen, like the Gabrielino-Kizh-Tongva, subsisted on small game, coastal marine resources, and a wide variety of plant foods such as grass seeds and acorns. Their houses were conical thatched reed, brush, or bark structures. The Juaneño inhabited permanent villages centered around patrilineal clans, with each village headed by a chief, known as a *nu* (Kroeber 1925; Sparkman 1908). Seasonal camps associated with villages were also used. Each village or clan had an associated territory and hunting, collecting, and fishing areas. Villages were typically located in proximity to a food or water source, or in defensive locations, often near valley bottoms, streams, sheltered coves or canyons, or coastal strands (Bean and Shipek 1978).

The Juaneño-Acjachemen are estimated to have numbered approximately 1,000 at the time of European contact. Beginning with the Spanish Period and the establishment of Mission San Juan Capistrano, the Juaneño-Acjachemen suffered severe depopulation and their traditional culture was radically altered. Nonetheless, descendants still reside in the Orange County area and maintain an active interest in their heritage.

## **Historical Setting**

The historical setting for the project area is divided into three primary periods: the Spanish Period (A.D. 1769-1821), the Mexican Period (A.D. 1821-1846), and the American Period (A.D. 1846 to present).

***Spanish Period (A.D. 1769-1821)***

The first European exploration of Orange County began in 1769 when the Gaspar de Portola expedition passed through on its way from Mexico to Monterey. A permanent Spanish presence was established with the founding of Mission San Juan Capistrano in 1776 (Hoover et al 2002). The mission was founded to break the long journey from Mission San Diego to Mission San Gabriel (near Los Angeles). A large, ornate church was constructed at the mission from 1797 to 1806, but was destroyed only six years later in an earthquake. The church was not rebuilt.

In an effort to promote Spanish settlement of Alta California, Spain granted several large land concessions from 1784 to 1821. At this time, Spain retained title to the land; individual ownership of lands in Alta California was not granted. Large portions of Orange County were granted as several large ranchos during the Spanish period. The area that would become Newport Beach was covered in part by one such grant, the 63,400-acre Rancho Santiago de Santa Ana, was given to Jose Antonio Yorba and his nephew Pablo Peralta in 1810. Other portions, including the area around Newport Bay, were not included in Spanish period grants.

***Mexican Period (A.D. 1821-1846)***

In 1821, Mexico won its independence from Spain. Mexico continued to promote settlement of California with the issuance of land grants. In 1833, Mexico secularized the missions, reclaiming the majority of mission lands and redistributing them as land grants. The part of Orange County that would become the City of Newport Beach was contained partly within Rancho Santiago de Santa Ana, as well one of two additional grants, totaling 48,800 acres, given to Jose Antonio Andres Sepulveda. This grant was known as Rancho Bolsa de San Joaquin, and was granted in 1842.

Many of these ranchos were used for cattle grazing by settlers during the Mexican Period. Hides and tallow from cattle became a major export for Californios (Hispanic Californians), many of whom became wealthy and prominent members of society. These Californios led generally easy lives, leaving the hard work to vaqueros (Hispanic cowhands) and Indian laborers. Californios lives centered primarily around enjoying the fruits of their labors, throwing parties and feasting on Catholic holidays (Pitt 1994; Starr 2007).

***American Period (A.D. 1846 to present)***

Mexico ceded California to the United States as part of the Treaty of Guadalupe Hidalgo, which ended the Mexican-American War (1846-1848). The treaty also recognized right of Mexican citizens to retain ownership of land granted to them by Spanish or Mexican authorities. However, the claimant was required to prove their right to the land before a patent was given. The process was lengthy and costly, and generally resulted in the claimant losing at least a portion of their land to attorney's fees and other costs associated with proving ownership (Starr 2007).

The Gold Rush (1849-1855) saw the first big influx of American settlers to California. Most of these settlers were men hoping to strike it rich in the gold fields. The increasing population provided an additional outlet for the Californios' cattle (Bancroft 1890). As demand increased, the price of beef skyrocketed and Californios reaped the benefits.



The culmination of the Gold Rush, followed by devastating floods in 1861 and 1862 and droughts in 1863 and 1864, led to the rapid decline of the cattle industry (Bancroft 1890). Many Californios lost their lands during this period, and former ranchos were subsequently divided and sold for agriculture and residential settlement.

Following the admission of California into the United States in 1850, the region of modern day Orange County was originally part of Los Angeles County. Orange County was established in 1889, with the City of Santa Ana as county seat (Armor 1921).

## **History of the Project Vicinity**

The project vicinity included parts of the Spanish land grant, Rancho Santiago de Santa Ana, given to Yorba in 1810, and the Mexican land grant, Rancho Bolsa de San Joaquin, given to Sepulveda in 1842. Following the Mexican-American War, the Yorbas sold the land to Sepulveda in 1854, and unlike many other Mexican era holdings in California, Sepulveda was able to retain possession of his holdings and he became a wealthy landowner. However, following a drought in 1864, Sepulveda sold portions of his lands to the Benjamin and Thomas Flint, Llewellyn Bixby, James Irvine, and James McFadden. Other portions were sold to William Spurgeon and Ward Bradford to create the City of Santa Ana (County of Orange 2011).

In 1870, a small ship from San Diego arrived in the marsh around the project area to exchange lumber for hides, tallow, livestock and grain, beginning commerce in the area. Irvine and McFadden named the landing Newport. In 1888, the dock was moved and expanded, and in 1891, the McFadden brothers completed a railway connection with Santa Ana (City of Newport Beach 2006). The small harbor, known as McFadden Wharf, thrived for the next eight years, until a new harbor was created in San Pedro in 1899. Served by the Southern Pacific Railroad, the new harbor would soon become southern California's major seaport.

Following the collapse of Newport as a major commercial center, McFadden sold his holdings to William Collins in 1902. Collins saw the promise of the Newport town site as a resort and recreation center and, in partnership with Henry Huntington, promoted Newport Beach as a viable community outside of Los Angeles. With the establishment of a Pacific Electric Railroad line between Newport Beach and Los Angeles, rapid transit 'red cars' brought new visitors to the waterfront. Small cottages, hotels, and restaurants soon appeared. The City of Newport Beach was incorporated on September 1, 1906 (City of Newport Beach 2006).

Beginning in the 1920s and continuing through the 1930s, major improvements were made to the harbor, including dredging of the lower bay and creation of jetties. The present day configuration of Newport Harbor was created during this period. Fishing was an important industry in the community, though the harbor became a vital military port during World War II. Because of this, the community saw growth during and just after the war. The construction of the Santa Ana freeway (US 101) in the 1950s spurred further growth, particularly into the hills and mesas to the north and east of the coast (City of Newport Beach 2006). As the fishing industry, once a strong contributor to the city's economy, declined, Newport Beach became a center of business, tourism, and upscale residence.



## Geologic Setting

The project area is located in the northwestern Peninsular Ranges Geomorphic Province, which is one of the largest geologic units in western North America (Norris and Webb 1990). The Peninsular Ranges extend from Los Angeles in the north to the Baja Peninsula in the south, and from the Pacific coastline in the west to the Colorado Desert and Gulf of California in the east (Norris and Webb 1990). It is characterized by northwest-trending mountains and valleys (Norris and Webb, 1990), of which the Santa Ana Mountains are closest to the project site. Within the Peninsular Ranges Geomorphic Province, the project area lies in the Los Angeles Basin, a deep accumulation of Tertiary sediments that have accumulated over the Upper Cretaceous to Cenozoic sedimentary and metasedimentary rocks of the western Santa Ana Mountains (Morton and Miller 2006). Locally, the project area lies to the north of the San Joaquin Hills and adjacent to Upper Newport Bay, south of where it meets San Diego Creek. This area is characterized by deposition of alluvial sediments from the Santa Ana Mountains deposited by the Santa Ana River and San Diego Creek in recent times, with older Quaternary terraces preserving both marine and terrestrial sediments deposited above Miocene-aged marine deposits.

## Regulatory Framework

Numerous laws and regulations require federal, state, and local agencies to consider the effects a project may have on cultural resources. These laws and regulations stipulate a process for compliance, define the responsibilities of the various agencies proposing the action, and prescribe the relationship among other involved agencies.

### Federal

#### Section 106 of the NHPA

Archaeological resources are protected through the NHPA of 1966, as amended (16 USC 470f), and its implementing regulation, Protection of Historic Properties (36 Code of Federal Regulations [CFR] Part 800), the Archaeological and Historic Preservation Act of 1974, and the Archaeological Resources Protection Act of 1979. Prior to implementing an “undertaking” (e.g., issuing a federal permit), Section 106 of the NHPA requires federal agencies to consider the effects of the undertaking on historic properties and to afford the Advisory Council on Historic Preservation and the State Historic Preservation Office (SHPO) a reasonable opportunity to comment on any undertaking that would adversely affect properties eligible for listing in the National Register of Historic Places (National Register). As indicated in Section 101(d)(6)(A) of the NHPA, properties of traditional religious and cultural importance to a tribe are eligible for inclusion in the National Register. Under the NHPA, a resource is considered significant if it meets the National Register listing criteria at 36 CFR 60.4.

#### National Register of Historic Places

The National Register was established by the NHPA of 1966, as “an authoritative guide to be used by federal, State, and local governments, private groups and citizens to identify the Nation’s historic resources and to indicate what properties should be considered for protection from destruction or impairment” (36 CFR 60.2). The National Register recognizes both historic-period

and prehistoric archaeological properties that are significant at the national, state, and local levels (U.S. Department of the Interior 2002).

To be eligible for listing in the National Register, a resource must be significant in American history, architecture, archaeology, engineering, or culture. Districts, sites, buildings, structures, and objects of potential significance must meet one or more of the following four established criteria:

- A. Are associated with events that have made a significant contribution to the broad patterns of our history;
- B. Are associated with the lives of persons significant in our past;
- C. Embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. Have yielded, or may be likely to yield, information important in prehistory or history.

Unless the property possesses exceptional significance, it must be at least 50 years old to be eligible for National Register listing (U.S. Department of the Interior 2002).

In addition to meeting the criteria of significance, a property must have integrity. Integrity is defined as “the ability of a property to convey its significance” (U.S. Department of the Interior 2002). The National Register recognizes seven qualities that, in various combinations, define integrity. The seven factors that define integrity are location, design, setting, materials, workmanship, feeling, and association. To retain historic integrity a property must possess several, and usually most, of these seven aspects. Thus, the retention of the specific aspects of integrity is paramount for a property to convey its significance.

### ***Paleontological Resources***

A variety of federal statutes specifically address paleontological resources. They are generally applicable to a project if that project includes federally owned or federally managed lands or involves a federal agency license, permit, approval, or funding. The first of these is the Antiquities Act of 1906 (54 U.S.C. 320301-320303 and 18 U.S.C. 1866(b)), which calls for protection of historic landmarks, historic and prehistoric structures, as well as other objects of historic or scientific interest on federally administered lands, the latter of which would include fossils. The Antiquities Act both establishes a permit system for the disturbance of any object of antiquity on federal land and also sets criminal sanctions for violation of these requirements. The Antiquities Act was extended to specifically apply to paleontological resources by the Federal-Aid Highways Act of 1958. More recent federal statutes that address the preservation of paleontological resources include the National Environmental Policy Act (NEPA), which requires the consideration of important natural aspects of national heritage when assessing the environmental impacts of a project (P.L. 91-190, 31 Stat. 852, 42 U.S.C. 4321-4327). The Federal Land Policy Management Act of 1976 (P.L. 94-579; 90 Stat. 2743, U.S.C. 1701-1782) requires that public lands be managed in a manner that will protect the quality of their scientific values, while Title 40 Code of Federal Regulations (C.F.R.) Section 1508.2 identifies paleontological resources as a subset of scientific resources. The Paleontological Resources Preservation Act

(Title VI, Subtitle D of the Omnibus Land Management Act of 2009) furthers the protection of paleontological resources on federal lands by criminalizing the unauthorized removal of fossils.

### ***Paleontological Resources Preservation Act***

Paleontological resources are specifically protected by the Paleontological Resources Preservation Act (PRPA) that was part of the Omnibus Public Land Management Act of 2009. The PRPA was signed into law on March 30, 2009 (Public Law 111-11, Title VI, Subtitle D; 16 U.S.C. §§ 470aaa - 470aaa-11). PRPA directed the Department of Agriculture (U.S. Forest Service) and the Department of the Interior (National Park Service, Bureau of Land Management, Bureau of Reclamation, and Fish and Wildlife Service) to implement comprehensive paleontological resource management programs. Section 6310 of PRPA specifically states, “*As soon as practical after the date of enactment of this Act, the Secretary shall issue such regulations as are appropriate to carry out this subtitle, providing opportunities for public notice and comment.*”

## **State**

### **California Environmental Quality Act**

CEQA is the principal statute governing environmental review of projects occurring in the State and is codified at Public Resources Code (PRC) Section 21000 et seq. CEQA requires lead agencies to determine if a proposed project would have a significant effect on the environment, including significant effects on historical or archaeological resources.

Under CEQA (Section 21084.1), a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. The CEQA Guidelines (Section 15064.5) recognize that a historical resource includes: (1) a resource listed in, or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources (California Register); (2) a resource included in a local register of historical resources, as defined in PRC Section 5020.1(k) or identified as significant in a historical resource survey meeting the requirements of PRC Section 5024.1(g); and (3) any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California by the lead agency, provided the lead agency’s determination is supported by substantial evidence in light of the whole record. The fact that a resource does not meet the three criteria outlined above does not preclude the lead agency from determining that the resource may be an historical resource as defined in PRC Sections 5020.1(j) or 5024.1.

If a lead agency determines that an archaeological site is a historical resource, the provisions of Section 21084.1 of CEQA and Section 15064.5 of the CEQA Guidelines apply. If a project may cause a substantial adverse change (defined as physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired) in the significance of an historical resource, the lead

agency must identify potentially feasible measures to mitigate these effects (CEQA Guidelines Sections 15064.5(b)(1), 15064.5(b)(4)).

If an archaeological site does not meet the criteria for a historical resource contained in the CEQA Guidelines, then the site may be treated in accordance with the provisions of Section 21083, which is a unique archaeological resource. As defined in Section 21083.2 of CEQA a “unique” archaeological resource is an archaeological artifact, object, or site, about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

- Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information;
- Has a special and particular quality such as being the oldest of its type or the best available example of its type; or
- Is directly associated with a scientifically recognized important prehistoric or historic event or person.

If an archaeological site meets the criteria for a unique archaeological resource as defined in Section 21083.2, then the site is to be treated in accordance with the provisions of Section 21083.2, which state that if the lead agency determines that a project would have a significant effect on unique archaeological resources, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place (Section 21083.1(a)). If preservation in place is not feasible, mitigation measures shall be required.

The CEQA Guidelines note that if an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment (CEQA Guidelines Section 15064.5(c)(4)).

Paleontological resources are afforded protection by environmental legislation set forth under CEQA. The CEQA Guidelines (Title 14, Chapter 3 of the California Code of Regulations, Section 15000 *et seq.*), define the procedures, types of activities, individuals, and public agencies required to comply with CEQA. As part of CEQA’s Initial Study process, one of the questions that must be answered by the lead agency relates to paleontological resources: “Will the proposed project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?” (CEQA Guidelines Section 15023, Appendix G, Section XIV, Part a).

The Guidelines do not define “directly or indirectly destroy,” but it can be reasonably interpreted as the physical damage, alteration, disturbance, or destruction of a paleontological resource. The Guidelines also do not define the criteria or process to determine whether a paleontological resource is significant or “unique.” Both the Society of Vertebrate Paleontology (SVP, 1995, 2010) and the Bureau of Land Management (BLM, 2009, 2016) have set significance criteria for paleontological resources (see “Professional Standards” below). Most practicing professional vertebrate paleontologists adhere closely to the SVP’s assessment, mitigation, and monitoring requirements as specifically provided in its standard guidelines. Most state regulatory agencies with paleontological laws, ordinances, regulations, and standards accept and use the professional standards set forth by the SVP.

The CEQA threshold of significance for a significant impact to paleontological resources is reached when a project is determined to “directly or indirectly destroy a significant paleontological resource or unique geologic feature.” In general, for projects that are underlain by paleontologically sensitive geologic units, the greater the amount of ground disturbance, the higher the potential for significant impacts to paleontological resources. For projects that are directly underlain by geologic units with no paleontological sensitivity, there is no potential for impacts on paleontological resources unless sensitive geologic units which underlie the non-sensitive unit are also affected.

## **California Register of Historical Resources**

The California Register is “an authoritative listing and guide to be used by State and local agencies, private groups, and citizens in identifying the existing historical resources of the State and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial adverse change” (PRC Section 5024.1[a]). The criteria for eligibility for the California Register are based upon National Register criteria (PRC Section 5024.1[b]). Certain resources are determined by the statute to be automatically included in the California Register, including California properties formally determined eligible for, or listed in, the National Register.

To be eligible for the California Register, a prehistoric or historical-period property must be significant at the local, State, and/or federal level under one or more of the following four criteria:

1. Is associated with events that have made a significant contribution to the broad patterns of California’s history and cultural heritage;
2. Is associated with the lives of persons important in our past;
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
4. Has yielded, or may be likely to yield, information important in prehistory or history.

A resource eligible for the California Register must meet one of the criteria of significance described above, and retain enough of its historic character or appearance (integrity) to be recognizable as a historical resource and to convey the reason for its significance. It is possible that a historic resource may not retain sufficient integrity to meet the criteria for listing in the National Register, but it may still be eligible for listing in the California Register.

Additionally, the California Register consists of resources that are listed automatically and those that must be nominated through an application and public hearing process. The California Register automatically includes the following:

- California properties listed on the National Register and those formally determined eligible for the National Register;
- California Registered Historical Landmarks from No. 770 onward; and
- Those California Points of Historical Interest that have been evaluated by the Office of Historic Preservation (OHP) and have been recommended to the State Historical Commission for inclusion on the California Register.

Other resources that may be nominated to the California Register include:

- Historical resources with a significance rating of Category 3 through 5 (those properties identified as eligible for listing in the National Register, the California Register, and/or a local jurisdiction register);
- Individual historical resources;
- Historical resources contributing to historic districts; and,
- Historical resources designated or listed as local landmarks, or designated under any local ordinance, such as an historic preservation overlay zone.

## **Assembly Bill 52**

Assembly Bill (AB) 52 was approved by California State Governor Edmund Gerry “Jerry” Brown, Jr. on September 25, 2014. The act amended California PRC Section 5097.94, and added PRC Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52 applies specifically to projects for which a Notice of Preparation (NOP) or a Notice of Intent to Adopt a Negative Declaration or Mitigated Negative Declaration (MND) will be filed on or after July 1, 2015. The primary intent of AB 52 was to include California Native American Tribes early in the environmental review process and to establish a new category of resources related to Native Americans that require consideration under CEQA, known as tribal cultural resources. PRC Section 21074(a)(1) and (2) defines tribal cultural resources as “sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American Tribe” that are either included or determined to be eligible for inclusion in the California Register or included in a local register of historical resources, or a resource that is determined to be a tribal cultural resource by a lead agency, in its discretion and supported by substantial evidence. On July 30, 2016, the California Natural Resources Agency adopted the final text for tribal cultural resources update to Appendix G of the CEQA Guidelines, which was approved by the Office of Administrative Law on September 27, 2016.

PRC Section 21080.3.1 requires that within 14 days of a lead agency determining that an application for a project is complete, or a decision by a public agency to undertake a project, the lead agency provide formal notification to the designated contact, or a tribal representative, of California Native American Tribes that are traditionally and culturally affiliated with the geographic area of the project (as defined in PRC Section 21073) and who have requested in writing to be informed by the lead agency (PRC Section 21080.3.1(b)). Tribes interested in consultation must respond in writing within 30 days from receipt of the lead agency’s formal notification and the lead agency must begin consultation within 30 days of receiving the tribe’s request for consultation (PRC Sections 21080.3.1(d) and 21080.3.1(e)).

PRC Section 21080.3.2(a) identifies the following as potential consultation discussion topics: the type of environmental review necessary; the significance of tribal cultural resources; the significance of the project’s impacts on the tribal cultural resources; project alternatives or appropriate measures for preservation; and mitigation measures. Consultation is considered concluded when either: (1) the parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or (2) a party, acting in good faith and

after reasonable effort, concludes that mutual agreement cannot be reached (PRC Section 21080.3.2(b)).

If a California Native American tribe has requested consultation pursuant to Section 21080.3.1 and has failed to provide comments to the lead agency, or otherwise failed to engage in the consultation process, or if the lead agency has complied with Section 21080.3.1(d) and the California Native American tribe has failed to request consultation within 30 days, the lead agency may certify an Environmental Impact Report (EIR) or adopt an MND (PRC Section 21082.3(d)(2) and (3)).

PRC Section 21082.3(c)(1) states that any information, including, but not limited to, the location, description, and use of the tribal cultural resources, that is submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public without the prior consent of the tribe that provided the information. If the lead agency publishes any information submitted by a California Native American tribe during the consultation or environmental review process, that information shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public.

### **California Government Code Sections 6254(r) and 6254.10**

These sections of the California Public Records Act were enacted to protect archaeological sites from unauthorized excavation, looting, or vandalism. Section 6254(r) explicitly authorizes public agencies to withhold information from the public relating to “Native American graves, cemeteries, and sacred places maintained by the Native American Heritage Commission.” Section 6254.10 specifically exempts from disclosure requests for “records that relate to archaeological site information and reports, maintained by, or in the possession of the Department of Parks and Recreation, the State Historical Resources Commission, the State Lands Commission, the Native American Heritage Commission, another state agency, or a local agency, including the records that the agency obtains through a consultation process between a Native American tribe and a state or local agency.”

### **California Health and Safety Code Section 7050.5**

California Health and Safety Code Section 7050.5 requires that in the event human remains are discovered, the County Coroner be contacted to determine the nature of the remains. In the event the remains are determined to be Native American in origin, the Coroner is required to contact the NAHC within 24 hours to relinquish jurisdiction.

### **California Public Resources Code Section 5097.98**

California PRC Section 5097.98, as amended by Assembly Bill 2641, provides procedures in the event human remains of Native American origin are discovered during project implementation. PRC Section 5097.98 requires that no further disturbances occur in the immediate vicinity of the discovery, that the discovery is adequately protected according to generally accepted cultural and archaeological standards, and that further activities take into account the possibility of multiple

burials. PRC Section 5097.98 further requires the NAHC, upon notification by a County Coroner, designate and notify a Most Likely Descendant (MLD) regarding the discovery of Native American human remains. Once the MLD has been granted access to the site by the landowner and inspected the discovery, the MLD then has 48 hours to provide recommendations to the landowner for the treatment of the human remains and any associated grave goods.

In the event that no descendant is identified, or the descendant fails to make a recommendation for disposition, or if the land owner rejects the recommendation of the descendant, the landowner may, with appropriate dignity, reinter the remains and burial items on the property in a location that will not be subject to further disturbance.

## **California Public Resources Code Section 5097.5 and Section 30244**

Other state requirements for paleontological resource management are included in PRC Section 5097.5 and Section 30244. These statutes prohibit the removal of any paleontological site or feature from public lands without permission of the jurisdictional agency, define the removal of paleontological sites or features as a misdemeanor, and require reasonable mitigation of adverse impacts to paleontological resources from developments on public (state, county, city, district) lands.

## **Local**

### **City of Newport Beach General Plan**

The City has developed the following historical resources goals and policies, as outlined in the Historical Resources Element of the City's General Plan (City of Newport Beach 2006).

**Goal HR 1:** Recognize and protect historically significant landmarks, sites, and structures.

**Policy HR 1.1 Historical Resources Inventory.** Maintain and periodically update the Newport Beach Register of Historical Property for buildings, objects, structures, and monuments having importance to the history or architecture of Newport Beach and require photo documentation of inventoried historic structures prior to demolition.

**Policy HR 1.2 Preservation or Re-Use of Historical Structures.** Encourage the preservation of structures listed on the National Register of Historic Places and/or the list of California Historical Landmarks, and/or the Newport Beach Register of Historical Property. Provide incentives, such as grading reductions or waivers of application fees, permit fees, and/or any liens placed by the City to properties listed in the National or State Register or the Newport Beach Register of Historical Property in exchange for preservation easements.

**Policy HR 1.3 Historical Landmarks.** Encourage the placement of historical landmarks, photographs, markers, or plaques at areas of historical interest or value. Create a Landmark Plan that will recognize and designate culturally important heritage sites that are eligible for the placement of historical landmarks or plaques. The Plan will also identify funding opportunities to support the program such as development fees, corporate or civic sponsorships, donations, or utilizing General Funds.

**Policy HR 1.4 Adaptive Re-use.** Encourage alternatives to demolition of historical sites or structures by promoting architecturally compatible rehabilitation or adaptive re-use.



Provide incentives such as permit and application fee waivers, flexible building requirements and free technical advice by person(s) qualified in historical preservation.

**Policy HR 1.5 Historical Elements within New Projects.** Require that proposed development that is located on a historical site or structure incorporate a physical link to the past within the site or structural design, if preservation or adaptive reuse is not a feasible option. For example, incorporate historical photographs or artifacts within the proposed project or preserve the location and structures of existing pathways, gathering places, seating areas, rail lines, roadways, or viewing vantage points within the proposed site design.

**Policy HR 1.6 Documentation.** Require that, prior to the issuance of a demolition or grading permit, developers of a property that contains an historic structure as defined by CEQA retain a qualified consultant to record the structure in accordance with U.S. Secretary of Interior guidelines (which includes drawings, photographs, and written data) and submit this information to the Newport Beach Historical Society, Orange County Public Library, and City Planning Department.

**Policy HR 1.7 Offer for Relocation of Historic Structure.** Require that, prior to the demolition of a historic structure, developers offer the structure for relocation by interested parties.

**Goal HR 2:** Identification and protection of important archeological and paleontological resources within the City.

**Policy HR 2.1 New Development Activities.** Require that, in accordance with CEQA, new development protect and preserve paleontological and archaeological resources from destruction, and avoid and mitigate impacts to such resources. Through planning policies and permit conditions, ensure the preservation of significant archeological and paleontological resources and require that the impact caused by any development be mitigated in accordance with CEQA.

**Policy HR 2.2 Grading and Excavation Activities.** Maintain sources of information regarding paleontological and archeological sites and the names and addresses of responsible organizations and qualified individuals, who can analyze, classify, record, and preserve paleontological or archeological findings. Require a qualified paleontologist/archeologist to monitor all grading and/or excavation where there is a potential to affect cultural, archeological or paleontological resources. If these resources are found, the applicant shall implement the recommendations of the paleontologist/archeologist, subject to the approval of the City Planning Department.

**Policy HR 2.3 Cultural Organizations.** Notify cultural organizations, including Native American organizations, of proposed developments that have the potential to adversely impact cultural resources. Allow representatives of such groups to monitor grading and/or excavation of development sites.

**Policy HR 2.4 Paleontological or Archaeological Materials.** Require new development to donate scientifically valuable paleontological or archaeological materials to a responsible public or private institution with a suitable repository, located within Newport Beach, or Orange County, whenever possible.

## City of Newport Beach Municipal Code

### ***Cultural Resource Protection, Part 3, Section 21.30.105***

#### A. Archaeological/Paleontological Resources.

1. Purpose and Intent. The purpose and intent of this regulation is to ensure that archaeological/paleontological cultural resources are afforded protection on sites known to contain or are suspected of containing archaeological/paleontological cultural resources. This regulation provides for the determination of the nature and extent of on-site archaeological/paleontological cultural resources during the early stages of planning for the development of the site, thereby allowing for a full range of mitigation options. Accordingly, development sites with known or high potential for the presence of archaeological/paleontological cultural resources are required to be analyzed through a comprehensive archaeological research plan (ARP) and implemented through a coastal development permit, prior to consideration of a permit to develop the site. By this process, the ARP is then used to guide any subsequent development of a site. The ARP, when properly designed and reviewed by qualified archaeologists, along with consultation with Native American groups with ancestral ties to the area can establish whether the site was used in prehistoric times by Native Americans, determine whether evidence of that use remains and provide for the in situ preservation of intact significant resources and other mitigation options to otherwise protect significant cultural resources on site. The regulation also provides procedures for archaeological and Native American monitoring of grading and other activities during project development in order to ensure that any newly discovered cultural resources are protected.
2. Applicability. The requirements in this subsection shall apply to all coastal development permit applications that involve grading, or excavation, or other development activity that may impact archaeological/paleontological cultural resources and that have one or more of the following characteristics:
  - a. Projects located within three hundred (300) feet of an identified paleontological/archaeological site in the Coastal Resources Information Center database of California State University, Fullerton, where archaeological/paleontological cultural resources are reasonably suspected to be present or areas identified by or otherwise known to the City as having potential paleontological/archaeological sites.
  - b. Where evidence of potentially significant paleontological/archaeological resources is found in an initial study conducted pursuant to the California Environmental Quality Act (CEQA).
3. Procedures. All applicable projects shall comply with the following procedures:
  - a. Preparation and Implementation of an Archaeological Research Plan (ARP).
    - i. When an ARP Is Required. When a development is proposed in an area where there are known or has potential for archaeological or paleontological resources on the site an Archaeological Research Plan (ARP) shall be prepared by a qualified archaeologist/paleontologist and implemented through a coastal development permit before the submittal of a coastal development permit for the proposed development of the site. The purpose of the ARP is to determine whether or not significant cultural resources are present, determine the boundaries of cultural resources, and provide measures that result in the avoidance and/or minimization of impact to archaeological or paleontological

cultural resources present on the site. A coastal development permit is required to implement an ARP since such implementation involves development (e.g., excavating shovel test pits, trenching, etc.) that has the potential to result in significant impacts to known or suspected on-site cultural resources.

Subsequent development of the site shall be subject to approval of a coastal development permit and shall be guided by the results of the approved ARP.

ii. Elements of the ARP. At a minimum, the ARP shall:

(A) Include a statement of the qualifications of the preparer and shall be prepared in accordance with current professional practice, in consultation with appropriate Native American groups as identified by the Native American Heritage Commission (NAHC), and be reviewed by at least three archaeologists (peer review committee), NAHC, and the State Historic Preservation Officer. The peer review committee shall be convened in accordance with current professional practice and shall be comprised of qualified archaeologists.

(B) Be designed and carried out with the goal of determining the extent of on-site cultural resources and shall include, but not be limited to, postulation of a site theory regarding the archaeological/paleontological cultural history and prehistory of the site, the types and quantities of resources expected to be encountered, identification of their significance (which shall not be limited to whether any site is eligible for listing in the National or State Register of Historic Places), the potential impacts of development to those resources, investigation methods to be implemented in order to locate and identify, in the least destructive manner, all archaeological/paleontological cultural resources on site.

(C) Include a mitigation plan taking into consideration the archaeological/cultural resources discovered as a result of the investigation and shall be based on a full range of mitigation options including avoidance of impacts to significant resources, measures designed to reduce or eliminate those impacts, including maintaining significant intact cultural resources “in situ.”

(D) Also include recommendations for monitoring and mitigation during any approved subsequent grading or other development activity in order to avoid impacts to additional archaeological/cultural resources should they be discovered.

The approved ARP, prepared as specified above, shall be fully implemented prior to submittal of a coastal development permit application for subsequent grading or development of the site.

b. Subsequent Monitoring and Mitigation Plan to Be Implemented in Conjunction with Approval of a Coastal Development Permit for Project Grading and Construction Activities.

- i. Even after implementation of an approved ARP, prepared in accordance with the above provisions, there is potential for proposed development activity to adversely affect archaeological/paleontological resources, a qualified paleontologist/archeologist shall monitor all grading and/or excavation activities. Therefore, a coastal development permit application for any subsequent

development at the site shall include the submittal of evidence that the approved ARP, including all mitigation, has been fully implemented. Further, the coastal development permit for subsequent development of the site shall include the requirement for the submittal of a Monitoring and Mitigation Plan to be implemented during any site grading, utility trenching or any other development activity that has the potential to uncover or otherwise disturb archaeological/cultural resources and shall provide for appropriate mitigation measures for any additional resources that are found. The elements of the Monitoring and Mitigation Plan shall be consistent with subsection (A)(3)(ii)(A) of this section and specify that sufficient archaeological and Native American monitors must be provided to assure that all activity that has the potential to uncover or otherwise disturb cultural deposits will be monitored at all times while those activities are occurring. The Monitoring Plan shall be ongoing until grading activities have reached sterile soil. The plan shall include at a minimum:

(A) Procedures for selecting archaeological monitor(s) qualified by the California Office of Historic Preservation (OHP) standards, and Native American monitor(s) with documented ancestral ties to the area, as well as the Native American most likely descendant (MLD), when State law mandates identification of a MLD, appointed consistent with the standards of the Native American Heritage Commission (NAHC), to monitor all grading and/or excavation activities;

(B) Procedures that shall be followed should grading operations or excavations uncover paleontological/archaeological resources, including:

- (1) requirement that all development activity within a minimum fifty (50) feet of the discovery or a greater area to be determined by the archaeologist or paleontologist shall be suspended and the Director shall be immediately notified of the discovery to avoid destruction of resources until a determination can be made as to the significance of the paleontological/archaeological resources;
- (2) A requirement that compliance with the applicable State and Federal laws shall occur upon the discovery of any human remains; and
- (3) A requirement that a significance testing plan be undertaken to determine the significance of the discovery and the procedures to be followed to allow for recommencement of development following the significance determination, including the requirement for a supplemental archaeology plan if the resources are found to be significant.

- ii. The Monitoring and Mitigation Plan shall include demonstration of a good faith effort to avoid impacts to the resources through measures including project redesign, in situ preservation/capping, and placing cultural resource areas in open space; if avoidance of the resource is not feasible, a recovery and/or relocation plan for mitigating the effect of the development shall be required.

## B. Historical and Architectural Resources.

1. Applicability. The requirements in this subsection shall apply to all coastal development permit applications involving the expansion, reconstruction, structural alteration, or demolition of structures or sites having one or more of the characteristics listed below:

- a. A site listed, or containing a building, monument, object, or structure that is listed, on the:
    - i. Newport Beach Register of Historical Property;
    - ii. California Register of Historical Resources; or
    - iii. National Register of Historic Places.
  - b. A site where evidence of potentially significant historical resources is found in an initial study conducted in compliance with the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq.).
2. Initial Evaluation. An application for approval of any project or development activity involving a historic resource identified in subsection (A) of this section shall be reviewed to determine whether the project may have a substantial adverse impact as defined by the California Environmental Quality Act (CEQA), on an historical resource.
3. Site-Specific Study. If the initial evaluation indicates that the proposed development may result in significant impacts to historical resources, the Director shall have the authority to require a site-specific study to be performed by a qualified professional. The study shall describe the significance of the resources; discuss the possible adverse impacts; and identify mitigation measures designed to reduce or eliminate those impacts.
4. Rehabilitation Incentives. The following incentives may be available to owners of historic properties identified in subsection (B)(1) of this section (Applicability):
  - a. To promote adaptive reuse, the State Historic Building Code may be applied to buildings or structures; and
  - b. The Commission may grant reductions or waivers of City application fees, City permit fees, and/or any liens placed by the City on properties listed in the Newport Beach Register of Historical Property in exchange for preservation easements.
5. Offer for Relocation of Historic Structure. Before issuance of a permit by the Building Director for the demolition of an historic structure the applicant shall first offer the structure for relocation by interested parties. (Ord. 2016-19 § 9 (Exh. A)(part), 2016)

## Background Research

### SCCIC Records Search

A records search for the current project was conducted on March 14, 2018 through the SCCIC. The records search covered project Phases 2A, 2B, and 2C, as well as a 0.5-mile buffer. This records search supplements a previous records search commissioned through the SCCIC on March 19, 2015 for Phase 1 of the project (Bever et. al. 2016). Since the previous records search encompassed most of the current records search radius, the current records search focused on cultural resources investigations and previously recorded cultural resources that were not identified in the previous records search. This includes sites and studies that fell outside the previous records search buffer, and sites and studies that have been filed at the SCCIC since the original records search was conducted. In addition, the California Register, the National Register, and the California State Historic Resources Inventory (HRI) listings were reviewed.

## Previous Cultural Resources Investigations

The results of the SCCIC records search indicated that 21 previous cultural resources studies have been conducted within the 0.5-mile search buffer for the Phase 2 project area, which includes Phase 2A (see Table 1). These studies cover approximately 95 percent of the 0.5-mile search area. Of these 21 studies, six (OR-305, -638, -1012, -1097, -2225, and -2534) appear to have included all or portions of the Phase 2A project area; however, only three studies (OR 638, -1012, and -1097) were survey projects; the remaining three studies consisted of background research for the Irvine Ranch Property (OR 305), the history or summary of the Irvine Company's cultural resources management practices (OR 2225), and a summary of cultural resources work conducted on Irvine Ranch Property (OR 2534). The survey project studies (OR 638, -1012, and -1097) appear to have covered approximately 20 percent of the Phase 2A project area; the remaining 80 percent of the Phase 2A project area appears not to have been subject to any previous survey.

**TABLE 1**  
**PREVIOUS CULTURAL RESOURCES INVESTIGATIONS CONDUCTED WITHIN 0.5-MILE OF THE PHASE 2 PROJECT AREA**

| Author                                    | SCCIC #<br>(OR-) | Title                                                                                                                                                                                                                                                                       | Date |
|-------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Brechbiel, Brant A.                       | 01762            | <i>Cultural Resources Records Search and Literature Review Report for a Pacific Bell Mobile Services Telecommunications Facility: Cm 333-01, in the City of Newport, California</i>                                                                                         | 1998 |
| Breece, William H.                        | 00960            | <i>Conclusion of Archaeological Monitoring for the Jamboree Road Widening</i>                                                                                                                                                                                               | 1989 |
| Breece, William H.                        | 01071            | <i>Results of the Geologic Trenching and Bore Holes Program Conducted at the Newport North Site, Newport Beach</i>                                                                                                                                                          | 1991 |
| Brown, Joan C.                            | 01097*           | <i>Cultural Resources Reconnaissance of a 138 Acre Section of Upper Newport Bay Regional Park Located in Newport Beach, Orange County, California</i>                                                                                                                       | 1991 |
| Brown Joan C.                             | 01189            | <i>Cultural Resources Reconnaissance of 11 Parcels of Land Located in Newport Beach, Orange County California.</i>                                                                                                                                                          | 1992 |
| Brown, Joan C.                            | 01733            | <i>Archaeological Monitoring During Excavation for the Green Acres Phase II Project Pipeline Extension Into Newport Beach (contract Ga- 97-1)</i>                                                                                                                           | 1998 |
| Cottrell, Marie G.                        | 01017            | <i>Archaeological Sites of Upper Newport Bay</i>                                                                                                                                                                                                                            | 1976 |
| Demcak, Carol R.                          | 02133            | <i>Final Report on Archaeological and Paleontological Monitoring Program Conducted at the Park Newport Apartments Project Site, Newport Beach</i>                                                                                                                           | 2000 |
| Desautels, Roger J.                       | 00638*           | <i>The Survey, Inventory, and Assessment of the Proposed County Sanitation Districts of Orange County Back Bay Trunk Sewer From Newport Dunes to Jamboree Pump Station and the Big Canyon Marsh Restoration Project, Upper Newport Bay, Newport Beach, County of Orange</i> | 1981 |
| Dillon, Brian D.                          | 01087            | <i>Archaeological Record Search for the Green Acres Phase II Project, Orange County Water District, Cities of Huntington Beach and Newport Beach, Orange County, California</i>                                                                                             | 1990 |
| Drover, Christopher E.<br>and David Smith | 02012            | <i>Cultural Resources Inventory, Office Building and Parking Structure, Civic Plaza, Newport Beach, California</i>                                                                                                                                                          | 1998 |
| Mason, Roger D.                           | 03286            | <i>Cultural Resources Records Search and Field Survey Report for a Verizon Telecommunications Facility: Big Canyon in the City of Newport Beach Orange County, California</i>                                                                                               | 2003 |

| Author               | SCCIC #<br>(OR-) | Title                                                                                                                                                                              | Date |
|----------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| McKenna, Jeanette A. | 03913            | <i>Archaeological Records Search, Corona Del Mar High School, Orange County, CA</i>                                                                                                | 2010 |
| McLean, Deborah K.   | 01706            | <i>Archaeological Assessment for Pacific Bell Mobile Services Telecommunications Facility Cm 352-03, 2046 Mar Vista Drive, City of Newport Beach, County of Orange, California</i> | 1998 |
| Padon, Beth          | 01012*           | <i>Back Bay Archaeology Site Inventory/status Evaluation</i>                                                                                                                       | 1982 |
| Schroth, Adella      | 00305*           | <i>The History of Archaeological Research on Irvine Ranch Property: the Evolution of a Company Tradition</i>                                                                       | 1979 |
| Strozier, Hardy      | 02225*           | <i>The Irvine Company Planning Process and California Archaeology- A Review and Critique</i>                                                                                       | 1978 |
| Unknown              | 00046            | <i>Newporter North Archaeology Draft Report on Limited Testing</i>                                                                                                                 | 1977 |
| Unknown              | 02016            | <i>Newporter North Archaeology Phase I Report</i>                                                                                                                                  | 1977 |
| Unknown              | 02534*           | <i>Annual Report to The Irvine Company from Archaeological Research, Inc.</i>                                                                                                      | 1976 |
| Van Horn, David M.   | 00204            | <i>Archaeological Survey Report for the Proposed Jamboree Pump Station and Jamboree Truck Project Near Newport Beach, California</i>                                               | 1978 |

\*Indicates study overlapping project area

SOURCE: SCCIC 2018;

## OR 305

This study was conducted in 1979 by Archaeological Resources Management Corporation and consisted of archaeological research for the approximately 100,000 acre Irvine Ranch property, which encompassed the entire project area at that time. The results of this research found that over 340 prehistoric sites have been documented within the Irvine Ranch property. None of these sites are located within the Phase 2A project area. No survey was conducted as part of this study (Schroth 1979).

## OR 638

This study was conducted in 1981 by Scientific Resource Surveys, Inc. and consisted of background studies and field survey for both an alternate alignment for a trunk sewer line and the Big Creek marsh restoration project. The survey area measured approximately 1-mile long. The pipeline portion of the survey traversed (at its northeastern extent) the southeastern portion of the Phase 2A project area, extending through Big Creek Canyon to an existing pump station at Jamboree Road. The study identified five previously recorded archaeological sites, all in the vicinity of Backbay Drive, and all outside the Phase 2A project area. No resources were identified in the survey of Big Creek Canyon through the Phase 2A project area (Desautels 1981).

**OR 1012**

This study was conducted in 1982 by LSA and consisted of archival research, survey and an additional “field inspection” in order to locate and accurately map 22 previously recorded archaeological resources, and develop a subsurface testing plan for them. The survey covered the majority of the banks of the Upper Newport Bay, and transected the southern boundary of the Phase 2A project area. No resources were identified in the survey of Big Creek Canyon through the Phase 2A project area (Padon 1982).

**OR 1097**

This study was conducted in 1991 by RMW Paleo Associates, Inc. and consisted of a survey of a 138 acres surrounding Upper Newport Bay, in order to determine the presence of cultural resources within the proposed Upper Newport Back Bay Regional Park. The survey transected (at its southern extent) the western tip of the Phase 2A project area. The study identified 16 previously recorded cultural resources, all located outside to the west, northwest, or north of the Phase 2A project area. No resources were identified in the survey of Big Creek Canyon through the Phase 2A project area (Brown 1991).

**OR 2225**

This report was prepared in 1978 by ARI and consists of a history or summary of the Irvine Company’s cultural resources management practices. The report indicates that over 600 archaeological sites had been documented within the Irvine Ranch Property; however, no other specifics or locational information are provided. No survey was conducted as part of this study (Strozier 1978).

**OR 2534**

This report was prepared in 1977 by ARI and includes a summary of cultural resources work conducted on Irvine Ranch Property, including records searches, surveys, and excavation at several archaeological sites. None of this work was conducted within the Phase 2A project area (ARI 1976).

**Previously Recorded Cultural Resources**

The results of the SCCIC records search indicated that no built environmental resources and a total of 13 archaeological resources have been previously recorded within a 0.5-mile radius of the full Phase 2 project area. All of the archaeological resources are prehistoric archaeological sites (**Table 2**). Of these, none occurs within the Phase 2A project area; however, six of the archaeological sites (CA-ORA-150, -151, -152, -153, -154, and -155) are located within approximately 0.15-miles or less (~800 feet or less) of the Phase 2 project area.



**TABLE 2**  
**PREVIOUSLY RECORDED CULTURAL RESOURCES WITHIN 0.5-MILE OF THE PHASE 2A PROJECT AREA**

| <b>Permanent<br/>Trinomial<br/>(CA-ORA-)</b> | <b>P-Number<br/>(P-30-)</b> | <b>Description</b>                                                                                                                        | <b>Date<br/>Recorded/<br/>Updated</b> |
|----------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 46                                           | 000046                      | Prehistoric archaeological site consisting of a dense shell midden.                                                                       | 1949                                  |
| 52                                           | 000052                      | Prehistoric archaeological site consisting of a shell midden.                                                                             | 1949/ 1965                            |
| 53                                           | 000053                      | Prehistoric archaeological site consisting of a shell midden, lithic scatter, faunal remains, one fish vertebra bead and a cobble sinker. | 1949/ 1964/<br>1965                   |
| 63                                           | 000063                      | Prehistoric archaeological site consisting of a shell midden and lithic scatter.                                                          | 1912/ 1966                            |
| 97                                           | 000097                      | Prehistoric archaeological site consisting of a shell midden, lithic scatter, and fire affected rocks.                                    | 1966                                  |
| 100                                          | 000100                      | Prehistoric archaeological site consisting of a shell midden.                                                                             | 1965                                  |
| 150                                          | 000150                      | Prehistoric archaeological site consisting of a shell midden and groundstone and lithic artifact scatter.                                 | 1965                                  |
| 151                                          | 000151                      | Prehistoric archaeological site consisting of a shell midden and groundstone and lithic artifact scatter.                                 | 1965                                  |
| 152                                          | 000152                      | Prehistoric archaeological site consisting of a shell midden.                                                                             | 1965                                  |
| 153                                          | 000153                      | Prehistoric archaeological site consisting of a shell midden.                                                                             | 1965                                  |
| 154                                          | 000154                      | Prehistoric archaeological site consisting of a shell midden.                                                                             | 1965                                  |
| 155                                          | 000155                      | Prehistoric archaeological site consisting of a shell midden.                                                                             | 1965                                  |
| 156                                          | 000156                      | Prehistoric archaeological site consisting of a small shell scatter.                                                                      | 1965                                  |

Source: SCCIC 2018

## Historic Maps and Aerial Photographs

Historic maps and aerial photographs were examined to provide historical information about land uses of the project area and to contribute to an assessment of the project area's archaeological sensitivity. Available topographic maps include the 1896, 1901, and 1925 Santa Ana, CA 30-minute quadrangles, and the 1932, 1943, 1951, 1968, and 1975 Newport Beach 7.5-minute quadrangles. In addition, 1938, 1952, 1958, 1963, 1972 and 1978 historic aerial photographs were also reviewed (HistoricAerials.com 2018).

The available historic maps and aerial photographs indicate that the project vicinity was largely undeveloped until the 1930s where roads and trails begin to appear in the project vicinity (HistoricAerials.com 2018). By the 1960s, the area north of the project area began to be developed (HistoricAerials.com 2018). By the 1970s, the areas north and south of the project area appear largely as they do today (HistoricAerials.com 2018). In addition, during the 1970s, the trails around the project vicinity became much more developed (HistoricAerials.com 2018).

The review of historic maps and aerial photographs also shows modifications to the project area itself. The 1932 USGS topographic map and the 1938 historic aerial photographs show that by that time, Back Bay Drive had been constructed approximately 0.18-miles to the west of the Phase 2A project area, at the point where Big Canyon Creek drains into the Upper Newport Bay.

This review also shows that there was an artificial landform created during one of the phases of construction of Jamboree Road within the Big Canyon area in the 1950s, less than 0.1-miles east of the Phase 2A project area and included in the Phase 1 project area. The building up of these two areas for the construction of the roads led to modification in channel flow through the canyon, creating accumulations of sediments, incision of channels, and expansion of invasive plant species within the Phase 2A project area. This means that the modern channel configuration and ground surface within the canyon is different from what would have been present ethnographically or prehistorically.

## Native American Outreach

ESA contacted the NAHC on March 18, 2018 to request a search of the SLF. In a letter response dated March 20, 2018, the NAHC indicated that “sites have been located within several of the quadrangles” provided and they may be impacted by the project (**Appendix B**). No specific information regarding the types of resources or their locations was provided; however, the NAHC indicated that the Juaneño Band of Mission Indians – Acjachemen Nation should be contacted. This was done as part of the AB 52 outreach discussed below.

Pursuant to AB 52, the City sent letters to the three contacts on the City’s AB 52 consultation list. The letters described the project, provided a project map, and invited the individuals to consult on the project. Individuals contacted included: Mr. Andrew Salas, Chairperson of the Gabrieleño Band of Mission Indians – Kizh Nation, by letter dated March 16, 2018; Ms. Joyce Stanfield Perry, Tribal Manager of the Juaneño Band of Mission Indians, Acjachemen Nation, by letter dated March 19, 2018; and Mr. Anthony Morales, Chairperson of the San Gabriel Band of Mission Indians, by letter dated March 19, 2018. One response was received.

By letter dated March 29, 2018, Mr. Andrew Salas of the Gabrieleño Band of Mission Indians – Kizh Nation requested consultation pursuant to Public Resources Code 21090.3.1, indicating that the project occurs within the tribe’s ancestral territory. Mr. Salas provided the City with documentation supporting this. As part of consultation, the tribe also requested a field visit to the project site. On May 17, 2018, Robert Stein with the City, Mr. Salas and Matt Teutimez with the Gabrieleño Band of Mission Indians – Kizh Nation, and representatives from ESA conducted a walkover of the project site. Mr. Salas indicated that while permanent encampments were not likely to occur within the canyon, there may have been temporary day camps in the project area. Mr. Salas further indicated that monitoring during Phase 2 construction activities would be sufficient for protecting any cultural resources that might be encountered during project implementation. Both archaeological and Native American monitoring are recommended as mitigation in the *Conclusions and Recommendations* section of this study.

In addition, prior to the City’s tribal outreach efforts, Mr. Salas provided the City with documentation concerning the extent of the tribe’s traditional territory, which encompasses the project area, and the proper name for the tribe, which should be the Kizh. Some of this information was provided during implementation of Phase 1 of the project, but pertains to all phases. Mr. Salas also provided a list of known ethnographic villages in the area. These are discussed in the *Ethnographic Setting* section above.

As a result of Native American outreach and consultation, no tribal cultural resources have been identified within the project area. Consultation pursuant to AB 52 is considered complete, though the City will continue to coordinate with involved tribal representatives.

## Paleontological Resources

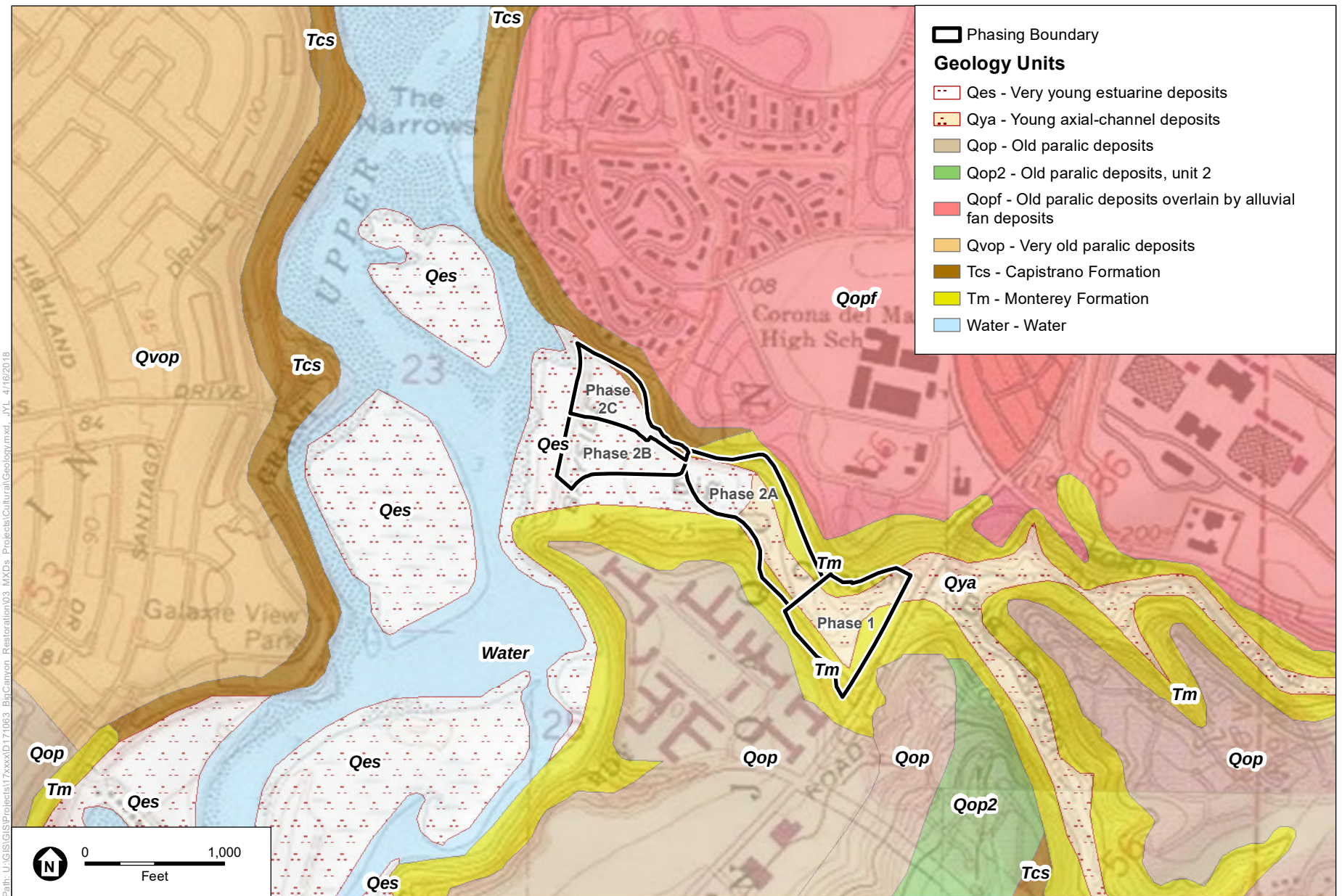
### Natural History Museum of Los Angeles County

A paleontological records check was conducted at the LACM on March 26, 2015 (McLeod 2015) for Phase 1 of the project (Bever et. al. 2016). Although no fossil localities have been recorded within the project area, the records of the LACM indicate there are numerous fossil localities known from Quaternary-aged (up to 2.58 Million years old) alluvium and terrace deposits as well as from the Monterey Formation in the region (McLeod, 2015). The closest locality to the project area is LACM 4254, where a diving duck (*Chendytes*) was collected from Quaternary deposits along MacArthur Boulevard (McLeod, 2015). The closest locality in Quaternary terrace deposits is LACM 1066, where a large number of terrestrial vertebrates were recovered from along Upper Newport Bay just northeast of the project area (McLeod, 2015). The closest LACM localities in the Monterey Formation are from southwest of the project area, where specimens of fish and baleen whales were collected from both sides of San Joaquin Hills Road (LACM 1160, LACM 7139; McLeod, 2015).

### Geologic Map & Literature Review

Geologic mapping by Morton and Miller (2006) at a scale of 1:100,000 indicates the surficial geology of the project area consists of Young Axial-Channel Deposits through the middle of the area, with outcrops of the Monterey Formation along the slopes at the margins (**Figure 4**). These deposits are discussed in more detail below.

**Young Axial-Channel Deposits (Qya).** These sediments consist of slightly to moderately consolidated silt, sand, and gravel deposits that date from the Holocene to late Pleistocene (up to 78,000 years ago) (Morton and Miller, 2006). These sediments are too young to preserve fossil resources in the upper layers, which have been defined by the SVP as over 5,000 years old (SVP, 2010). However, these sediments increase in age with depth, and therefore may be old enough to preserve fossil resources in the subsurface. The LACM records search returned two such localities in the vicinity of the project area, as discussed above (McLeod, 2015). Alluvial sediments that date to the middle Holocene or beyond have a rich fossil history in southern California (Jefferson 1991a and b; Miller, 1971). The most common terrestrial mammal fossils include the bones of mammoth, bison, deer, and small mammals, but other taxa, including horse, lion, cheetah, wolf, camel, antelope, peccary, mastodon, capybara, and giant ground sloth, have been reported (Graham and Lundelius 1994), as well as reptiles such as frogs, salamanders, and snakes (Hudson and Brattstrom, 1977). In addition to illuminating the striking differences between Southern California in the Pleistocene and today, this abundant fossil record has been vital in studies of extinction (e.g. Sandom, et al., 2014; Barnosky et al., 2004), ecology (e.g. Connin et al., 1998), and climate change (e.g. Roy et al., 1996).



SOURCE: Morton and Miller, 2006

Big Canyon Phase 2A Restoration

**Figure 4**  
Geology

**Monterey Formation (Tm).** In and around the project area, the Monterey Formation consists of siliceous and diatomaceous marine siltstone and sandstone interbedded with thinly laminated sandstone (Morton and Miller, 2006). The Monterey Formation ranges in age from 3 to 15 million years old (Ma) (Obradovich and Naeser, 1981). The Monterey Formation records the filling of a deep basin formed by tectonism along the California margin (Pisciotta and Garrison, 1981) and constitutes one of the major elements of California geology and can range up to several thousands of feet thick (Bramlette, 1946). The LACM has numerous records of marine fossils recovered from the Monterey Formation in Orange County, the closest two of which are discussed above (McLeod, 2015). A review of the literature shows that the Monterey Formation has yielded a diverse fauna consisting of some mollusks and common fish skeletons (Bramlette, 1946; Dibblee, 1973), and remains of larger marine macrofauna such as whales (Pyenson and Haasl, 2007) and the giant extinct *Desmostylus* (Hannibal, 1922), as well as birds (Warheit, 1992), crocodiles (Barboza et al., 2017) and rare land organisms such as horse and land plants (Bramlette, 1946).

## Cultural Resources Survey

### Methods

A cultural resources pedestrian survey of the project area was conducted by ESA archaeologists Matthew Gonzalez, B.A., and Henry Chodsky, B.A., on March 15, 2018. Accompanying them was Native American representative Gabriel Lopez of the Juaneño Band of Mission Indians, retained through the Gabrieleño Band of Mission Indians – Kizh Nation.

The survey was aimed at identifying surface evidence of archaeological materials and historic built environment resources. Where feasible, the survey was conducted using 10-meter transects. In these areas, particularly along the margins of the canyon and in some open areas within the dense vegetation, ground visibility averaged approximately 10 to 15 percent, though a few areas were more exposed and had visibility of 90 to 100 percent. Other areas were inaccessible due to either water in the creek or dense, impenetrable vegetation. These areas were examined to the extent possible. A total of approximately 5 acres of the 11.3-acre Phase 2A project area could be intensively surveyed (**Figure 5**). All other areas were surveyed at the reconnaissance level. Overview photos showing survey conditions are included as **Figure 6**.

### Results

No built environment resources or evidence of a prehistoric or historic-period archaeological site were identified during the survey. Much of the project area occurs in either an actively eroding channel or within the canyon bottom where sediments are actively accumulating. Surficial exposure of archaeological resources, in particular prehistoric archaeological resources would not be expected in either of these contexts. As mentioned above in the Historical Maps and Aerial photographs section, much of this accumulation of sediment is likely a result of recent modification of the canyon, including construction of roadways and placement of fill.





SOURCE: ESRI; Digital Globe 10/21/2016

Big Canyon Restoration - Phase 2A

**Figure 5**  
Survey Coverage





Overview of Phase 2a Project area (view to NE)



Overview of Phase 2a Project area (view to south)

SOURCE: ESA, 2018

Big Canyon Creek Restoration Project – Phase A

**Figure 6**  
Survey Conditions

While no archaeological resources were identified, a scatter of shell, including pockets of concentrated shell, was identified throughout the Phase 2A project area. The shell primarily consists of small clams, cerithidea, and land snail shells. Native American monitor Mr. Lopez of the Juaneño Band of Mission Indians suggested during the survey the shell might represent a prehistoric archaeological site. However, other indications suggest the resource is a natural or artificial phenomenon. For one, the shell scatters contain species that inhabit the area naturally, including land snails with very fragile shells that do not preserve well. The shell includes numerous unbleached and unweathered specimens, as well as articulated and recently opened bi-valves with organic material adhering to the inside of the shell. The shells are small in size, many are intact, and not what would be expected from a prehistoric midden deposit. No modified shell, artifacts, ecofacts or other indicators of an archaeological site were found. In addition, soils where shell was present was consistent with the soils throughout the rest of the project area, and were not darkened by organic materials, as would be expected from a prehistoric midden deposit. Finally, examination of the cut bank along the creek shows that the shell only occurs on the modern ground surface. As mentioned above, much of the surficial sediment found in the project area is a result of recent accumulation, and prehistoric archaeological resources would not be expected to occur on top of these sediments within an active floodplain. It is also worth noting as well that previous cultural resources surveys for sewer lines that cross the area (surveys OR 638, OR 1012, and OR 1097, discussed above) did not identify any archaeological resource in the project area. It is concluded that the shell occurs naturally, perhaps as a natural deposition of specimens from the creek and as a result of animal predation.

## Conclusion and Recommendations

### Cultural Resources

No built environment resources were identified within the project area as a result of this assessment. As such, subsection B (Historical and Architectural Resources) of Part 3, Section 21.30.105 of the City's Municipal Code does not apply. In addition, no archaeological resources were identified, either through the records search or during the field survey. However, both background research and Native American input indicate that the immediate vicinity of the project area is sensitive for prehistoric archaeological resources. The environment would have been an attractive area for resource procurement in prehistoric times and was likely utilized by indigenous peoples of the region. The records search shows that 13 prehistoric archaeological sites have been recorded within 0.5-mile of the project area, including six (CA-ORA-150, -151, -152, -153, -154, and -155) that are located within approximately 0.15-mile. The NAHC SLF search also indicates that Native American cultural resources have been identified in the vicinity of the project area. Further, as part of the Phase 1 study for the project, several Native American representatives indicated that the project vicinity was used by Native Americans during prehistoric times. Although the records search shows that known archaeological sites in the area, including those listed above, tend to occur atop higher elevation bluffs and mesas, and not within canyons and active channels like those of the project area, given Native American concerns, the project area still should be considered sensitive for archaeological resources, and ground disturbing activity does have the potential to impact any buried resources that might be present. As a result, archaeological and Native American monitoring during construction are



recommended, as was the case for Phase 1 of the project. Mr. Andrew Salas of the Gabrieleño Band of Mission Indians – Kizh Nation also recommended monitoring of ground disturbing activity during a site visit that was conducted with the City as part of consultation required under AB 52. The following specific recommendations fulfil the monitoring requirements of an ARP as described in the City’s Municipal Code Part 3, Section 21.30.105, subsection A.

### ***Archaeological Monitoring***

An archaeological monitor (working under the direct supervision of a Secretary of the Interior-qualified archaeologist [USDI 2008]) shall be retained to observe all ground-disturbing activities, including but not limited to brush clearance, vegetation removal, grubbing, grading, and excavation. The archaeological monitor shall meet the qualification standards of the California Office of Historic Preservation, and shall be familiar with the types of resources that could occur within the project site. Prior to start of ground-disturbing activities, the archaeologist shall conduct cultural resources sensitivity training for all construction personnel. Construction personnel shall be informed of the types of archaeological resources that may be encountered, and of the proper procedures to be enacted in the event of an inadvertent discovery of archaeological resources or human remains. The City shall ensure that construction personnel are made available for and attend the training and retain documentation demonstrating attendance.

Archaeological monitoring shall be conducted by an archaeologist familiar with the types of archaeological resources that could be encountered within the project site. The qualified archaeologist, in coordination with the City, may reduce or discontinue monitoring if it is determined that the possibility of encountering buried archaeological deposits is low based on observations of soil stratigraphy or other factors. The archaeological monitor shall be empowered to halt or redirect ground-disturbing activities away from the vicinity of a discovery until the qualified archaeologist has evaluated the discovery and determined appropriate treatment. The archaeological monitor shall keep daily logs detailing the types of activities and soils observed, and any discoveries. After monitoring has been completed, the qualified archaeologist shall prepare a monitoring report that details the results of monitoring. The report shall be submitted to the City, the USACE, and any Native American groups who request a copy. A copy of the final report shall be filed at the SCCIC.

### ***Native American Monitoring***

The City shall retain a Native American monitor to observe all ground-disturbing activities, including but not limited to brush clearance, vegetation removal, grubbing, grading, and excavation. The Native American monitor shall be selected from amongst the Native American groups identified by the NAHC as having affiliation with the project area. The Native American representative shall be allowed to participate in the cultural resources sensitivity training, and shall have all authorities ascribed to the archaeological monitor, including the authority to stop work in the event of the discovery of cultural resources. In the event that prehistoric archaeological materials are encountered, the Native American monitor shall participate in any discussions involving treatment and subsequent mitigation.

### ***Inadvertent Discoveries***

If cultural resources are encountered during construction, all activity within a minimum of 50 feet of the discovery, or a greater area to be determined by the archaeologist, shall be suspended and the City shall be immediately notified of the discovery to avoid destruction of resources. The resources will be evaluated by the qualified archaeologist in accordance with a significance testing plan designed to determine the significance of the discovery and the procedures to be followed to allow for recommencement of development following the significance determination, including the requirement for a supplemental archaeological research plan if the resource is found to be significant. If the archaeologist determines that the discovered archaeological resource constitutes a historic property under Section 106 of the NHPA or a historical resource under CEQA, avoidance and preservation in place is the preferred manner of treatment. Preservation in place maintains the important relationship between artifacts and their archaeological context and also serves to avoid conflict with traditional and religious values of groups who may ascribe meaning to the resource. Preservation in place may be accomplished by, but is not limited to, avoidance, incorporating the resource into open space, capping, or deeding the site into a permanent conservation easement. In the event that preservation in place is demonstrated to be infeasible and data recovery through excavation is the only feasible mitigation available, a Cultural Resources Treatment Plan will be prepared and implemented by a qualified archaeologist in consultation with the USACE and the City. The plan will provide for the adequate recovery of the scientifically consequential information contained in the archaeological resource. The USACE and the City shall be required to consult with appropriate Native American representatives in determining treatment for prehistoric or Native American resources to ensure cultural values ascribed to the resource, beyond that which is scientifically important, are considered.

If human skeletal remains are uncovered during project construction, the City would immediately halt work, contact the Orange County coroner to evaluate the remains, and follow the procedures and protocols set forth in Section 15064.5 (e)(1) of the CEQA Guidelines. If the County Coroner determines that the remains are Native American, the City would contact the NAHC, in accordance with Health and Safety Code Section 7050.5, subdivision (c), and PRC 5097.98 (as amended by AB 2641). The NAHC would then identify the MLD of the deceased Native American, who would then help determine what course of action should be taken in dealing with the remains.

Per PRC 5097.98, the landowner should ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the landowner has discussed and conferred, as prescribed in this section (PRC 5097.98), with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains.

## Paleontological Resources

The review of geologic mapping, the scientific literature, and the records search of the LACM presented here were used to assign paleontological sensitivity rankings of the SVP (2010) to the geologic units present at the surface and in the subsurface of the project site:

**Young Axial-Channel Deposits (Qya).** Young Axial-Channel Deposits are too young to preserve fossil resources in the upper layers (i.e., <5,000 years old); however they increase in age with depth, such that they are of an age to preserve fossil resources in the subsurface. There is a well-documented history of Older Alluvium and Terrace deposits preserving significant fossil resources in the vicinity of the project area (e.g., McLeod, 2015; Jefferson, 1991a, 1991b; Miller, 1971; etc.). Therefore, these sediments have **low-to-high paleontological sensitivity**, increasing with depth. The exact depth at which this transition occurs is not known in the project area, however the proximity of the older Monterey Formation outcrops in the project area as well as studies of depth of fossils in Quaternary valley deposits (Reynolds and Reynolds, 1991) indicates this transition may occur as shallowly as 5 feet below ground surface.

**Monterey Formation (Tm).** The Monterey Formation has a well-documented record of preserving fossil resources in the vicinity of the project area as well as across Orange County and southern California e.g., McLeod, 2015; Bramlette, 1946; etc.). Therefore, the Monterey Formation has **high paleontological sensitivity**.

The results of the paleontological assessment presented in this report indicate that the project area is sensitive for paleontological resources, particularly at depths greater than 5 feet and along the margin of the project area where the Monterey Formation is present. Given the shallow depth of proposed project-related ground disturbance, it is anticipated that the project will not impact paleontological resources. However, the following recommendations are provided.

### ***Appoint a Qualified Paleontologist***

A qualified paleontologist meeting the Society of Vertebrate Paleontology (SVP) Standards (SVP, 2010) (Qualified Paleontologist) shall be retained prior to the approval of demolition or grading permits. The Qualified Paleontologist shall provide technical and compliance oversight of all work as it relates to paleontological resources, shall attend the project kick-off meeting and project progress meetings on a regular basis, and shall report to the site in the event potential paleontological resources are encountered.

### ***Worker Training***

The Qualified Paleontologist shall conduct construction worker paleontological resources sensitivity training prior to the start of ground disturbing activities (including vegetation removal, pavement removal, etc.). This can be coordinated with the cultural resources sensitivity training. In the event construction crews are phased, additional trainings shall be conducted for new construction personnel. The training session shall focus on the recognition of the types of paleontological resources that could be encountered within the project site and the procedures to be followed if they are found. Documentation shall be retained demonstrating that all construction personnel attended the training.

### ***Paleontological Monitoring***

Full-time paleontological resources monitoring shall be conducted for all ground disturbing activities occurring in previously undisturbed sediments with high paleontological sensitivity, including deeper layers of Young-Axial Channel Deposits and the Monterey Formation. A depth of 5 feet bgs is established as the depth at which high sensitivity and paleontological monitoring should begin in the Young-Axial Channel Deposits. This depth is determined from the proximity of the older Monterey Formation outcrops in the project area as well as studies of depth of fossils in Quaternary valley deposits (Reynolds and Reynolds, 1991). While proposed plans indicate that project activities will not disturb sediments greater than five feet in depth, the Qualified Paleontologist should confirm this based on final design plans. The Qualified Paleontologist shall spot check the excavation on an intermittent basis and recommend whether the depth of required monitoring should be revised based on his/her observations. Ground disturbing activities in previously undisturbed sediments mapped as the Monterey Formation shall require full-time monitoring at any depth.

If it is determined that project-related activities will impact sensitive formations, Paleontological resources monitoring shall be performed by a qualified paleontological monitor (meeting the standards of the SVP, 2010) under the direction of the Qualified Paleontologist. Monitors shall have the authority to temporarily halt or divert work away from exposed fossils in order to recover the fossil specimens. Any significant fossils collected during project-related excavations shall be prepared to the point of identification and curated into an accredited repository with retrievable storage. Monitors shall prepare daily logs detailing the types of activities and soils observed, and any discoveries. The Qualified Paleontologist shall prepare a final monitoring and mitigation report to document the results of the monitoring effort.

### ***Fossil Discovery***

If construction or other project personnel discover any potential fossils during construction, regardless of the depth of work or location, work at the discovery location shall cease in a 50-foot radius of the discovery until the Qualified Paleontologist has assessed the discovery and made recommendations as to the appropriate treatment. If the find is deemed significant, it should be salvaged following the standards of the SVP (2010) and curated with a certified repository.

## **Section 106 Finding**

Based on the results of background research and a field survey, which did not identify any resources with the project area, and with the implementation of the mitigation measures discussed above, it appears that the project will have **no adverse effect** on historic properties.

## References Cited

- ARI. 1976. *Annual Report to The Irvine Company from Archaeological Research, Inc.* OR-2534. Report on file at the South Central Coastal Information Center, California State University, Fullerton.
- Armor, Samuel. 1921. History of Orange County, California: with biographical sketches of the leading men and women of the county who have been identified with its earliest growth and development from the early days to the present, Los Angeles: Historic Record Co.
- Bancroft, Hubert Howe. 1890. *The Works of Hubert Howe Bancroft, Vol. XXIV, History of California, Vol. VII, 1860-1890.* The History Company Publishers, San Francisco, CA.
- Barboza, M., J. Parham, G.-P. Santos, B. N. Kussman, and J. Velez-Juarbe. 2017. The age of the Oso Member, Capistrano Formation, and a review of fossil crocodylians from California. *PaleoBios* 34: 1-16.
- Barnosky, A., C. Bell, S. Emslie, H. T. Goodwin, J. Mead, C. Repenning, E. Scott, and A. Shabel. 2004. Exceptional record of mid-Pleistocene vertebrates helps differentiate climatic from anthropogenic ecosystem perturbations. *Proceedings of the National Academy of Sciences* 101: 9297-9302.
- Bean, Lowell John, and Florence C. Shipek. 1978. Luiseño, In *California*, edited by Robert F. Heizer, pp. 550-563. Handbook of North American Indians, Vol. 8, W. C. Sturtevant, general editor. Smithsonian Institution, Washington, D.C.
- Bean, Lowell John., and C.R. Smith. 1978. Gabrielino. In *California*, edited by R.F. Heizer, pp. 538-549. Handbook of North American Indians, Vol. 8, Smithsonian Institution, Washington.
- Bever, Michael R., Candace Ehringer, Michael Vader. 2015. *Big Canyon Creek Restoration Project – Phase I, City of Newport Beach, California. Phase 1 Cultural Resources Study.* Document on file at ESA, Los Angeles, CA.
- Bramlette, M. N. 1946. The Monterey Formation of California and the origin of its siliceous rocks. U.S. Geological Survey Professional Paper 212. 80 p.
- Brown, Joan C. 1991. *Cultural Resources Reconnaissance of a 138 Acre Section of Upper Newport Bay Regional Park Located in Newport Beach, Orange County, California.* RMW Paleo Associates, Inc. OR1097. Report on file at the South Central Coastal Information Center, California State University, Fullerton.
- Bureau of Land Management (BLM). 2009. Guidelines for assessment and mitigation of potential impacts to paleontological resources. Instruction Memorandum 2009-011. 19 pp.
- . 2016. Potential fossil yield classification system for paleontological resources on public lands. Instruction Memorandum IM2016-124. 5 pp.
- City of Newport Beach. 2006. General Plan, Historical Resources Element. Adopted July 25, 2006.

- Cleland, J.H., A.L. York, and L.M. Willey. 2007. *Piecing Together the Prehistory of Landing Hill: A Place Remembered*, EDAW Cultural Publications No. 3, San Diego, CA.
- Connin, S., J. Betancourt, and J. Quade. 1998. Late Pleistocene C4 plant dominance and summer rainfall in the Southwestern United States from isotopic study of herbivore teeth. *Quaternary Research* 50: 179-193.
- Cottrell, Marie. 1976. *Archaeological Sites of Upper Newport Bay*, prepared by Archaeological Resources Inc. (ARI). Document on file at ESA, Los Angeles, CA.
- County of Orange. 2011. Spanish and Mexican Ranchos, electronic document accessed at [http://egov.ocgov.com/vgnfiles/ocgov/Clerk-Recorder/Docs/Archives/Spanish\\_and\\_Mexican\\_Ranchos.pdf](http://egov.ocgov.com/vgnfiles/ocgov/Clerk-Recorder/Docs/Archives/Spanish_and_Mexican_Ranchos.pdf) on March 18, 2018.
- Desautels, Roger. 1981. *Archaeological/Historical/Paleontological Report on the Survey, Inventory, and Assessment of the Proposed County Sanitation Districts of Orange County Back Bay Trunk Sewer from Newport Dunes to Jamboree Pump Station and the Big Canyon Marsh Restoration Project, Upper Newport Bay, Newport Beach, County of Orange*, prepared by Scientific Resource Surveys, Inc. OR-0638. Report on file at the South Central Coastal Information Center, California State University, Fullerton.
- Dibblee, T.W. 1973. Stratigraphy of the southern Coast Ranges near the San Andreas Fault from Cholame to Maricopa, California. U.S. Geological Survey Professional Paper 764. 53 p.
- Dixon, Keith A. 1983. Early Holocene Human Adaptation on the Southern California Coast: A Summary Report of Investigations at the Irvine Site (CA-ORA-64), Newport Bay, Orange County, California. *Pacific Coast Archaeological Society Quarterly*, 19(3&4):1-84.
- Drover, C.E., H.C. Koerper, and P. Langenwaller II. 1983. Early Holocene Human Adaptation on the Southern California Coast: A Summary Report of Investigations at the Irvine Site (CA-ORA-64), Newport Bay, Orange County, California. *Pacific Coast Archaeological Society Quarterly*, 19(3&4): 1-84.
- Ehringer, Candace. 2015. Cultural Resources Memorandum: City of Newport Beach - Big Canyon Creek Restoration Project – Phase I. Prepared for City of Newport Beach. Prepared by Environmental Science Associates.
- Erlandson, Jon M. 1994. *Early Hunter-Gatherers of the California Coast*. Plenum Press, New York.
- Graham, R.W., and E.L. Lundelius. 1994. FAUNMAP: A database documenting the late Quaternary distributions of mammal species in the United States. *Illinois State Museum Scientific Papers XXV*(1).
- Hannibal, H. 1922. Notes on Tertiary Sirenians of the genus *Desmostylus*. *Journal of Mammalogy* 3: 238-240.
- Historicaerials.com. 2018. Historic Aerial Photographs for the Years 1938, 1952, 1958, 1963, 1972 and 1978, electronic resource, <http://www.historicaerials.com/>, accessed on March 16, 2018.

- Hoover, M. B., H. E. Rensch, E. G. Rensch, W. N. Abeloe. 2002. *Historic Spots in California*. Revised by Douglas E. Kyle. Palo Alto, CA: Stanford University Press.
- Hudson, D. and B. Brattstrom. 1977. A small herpetofauna from the Late Pleistocene of Newport Beach Mesa, Orange County, California. *Bulletin of the Southern California Academy of Sciences* 76: 16-20.
- Jefferson, G.T. 1991a. A catalogue of Late Quaternary Vertebrates from California: Part One, nonmarine lower vertebrate and avian taxa. Natural History Museum of Los Angeles County Technical Reports No. 5.
- . 1991b. A catalogue of Late Quaternary Vertebrates from California: Part Two, Mammals. Natural History Museum of Los Angeles County Technical Reports No. 7.
- Jones, Terry L. 1992. Settlement Trends Along the California Coast. In *Essays on the Prehistory of Maritime California*, edited by Terry L. Jones, pp. 1-38. No. 10, Center for Archaeological Research at Davis, University of California at Davis.
- Kroeber, A. L. 1925. *Handbook of the Indians of California*. Bureau of American Ethnology Bulletins, No. 78. Smithsonian Institution: Washington, D.C.
- Macko, M. 1998. Neolithic Newport Executive Summary: Results of Implementing Mitigation Measures Specified in the Operation Plan Research Design for the Proposed Newporter North Residential Development at ORA-64. Prepared for the Irvine Community Development Company, Newport Beach. Macko, Inc., Costa Mesa.
- McLeod, Samuel A. 2015. Paleontological Resources for the Proposed Big Canyon Restoration Wetlands Project ESA Project # D130934.00, in the City of Newport Beach, Orange County, prepared for ESA, March 26, 2015.
- Miller, W. E. 1971. Pleistocene Vertebrates of the Los Angeles Basin and Vicinity: exclusive of Rancho La Brea. Los Angeles County Museum of Natural History, No. 10.
- Morton, D. M. and F. K. Miller. 2006. Geologic map of the San Bernardino and Santa Ana 30' × 60' quadrangles, California. U.S. Geological Survey Open-File Report 2006-1217. Scale 1:100,000.
- Norris, R. M., and R. W. Webb. 1990. *Geology of California*, second edition: John Wiley & Sons, New York.
- Obradovich, J. and C. Naeser. 1981. Geochronology bearing on the age of the Monterey Formation and siliceous rocks in California. In *The Monterey Formation and Related Siliceous Rocks of California*: Society of Economic Paleontologists and Mineralogists. p. 87-95.
- Padon, Beth. 1982. *Back Bay Archaeology Site Inventory/status Evaluation*. LSA Associates Inc. OR 1012. Report on file at the South Central Coastal Information Center, California State University, Fullerton.

- Pisciottio, K. A. and R. E. Garrison. 1981. Lithofacies and depositional environments of the Monterey Formation, California. In *The Monterey Formation and Related Siliceous Rocks of California*. Society of Economic Paleontologists and Mineralogists. Pg. 97-122.
- Pitt, Leonard. 1994. *The Decline of the Californios: A Social History of the Spanish-speaking Californians, 1846-1890*. University of California Press, Berkeley, 1994.
- Pyenson, N. D. and D. M. Haasl. 2007. Miocene whale-fall from California demonstrates that cetacean size did not determine the evolution of modern whale-fall communities. *Biology Letters* 3: 709-711.
- Raab, L.M., J.L. Porcasi, K. Bradford, and A. Yatsko. 1995. Beyond the 50-Percent Solution: Maritime Intensification at Eel Point, San Clemente Island, California. Presented at the Annual Meetings of the Society for California Archaeology, Eureka.
- Reynolds, R. E., and R. L. Reynolds. 1991. The Pleistocene beneath our feet: near-surface Pleistocene fossils in inland southern California basins; pp. 41-43 in M. O. Woodburne, R. E. Reynolds, and D. P. Whistler (eds.), *Inland Southern California: the last 70 million years*. San Bernardino County Museum Association, Redlands, California.
- Roy, K., J. Valentine, D. Jablonski, and S. Kidwell. 1996. Scales of climatic variability and time averaging in Pleistocene biotas: implications for ecology and evolution. *Trends in Ecology and Evolution* 11: 458-463.
- Sandom, C., S. Faurby, B. Sandel, and J.-C. Svenning. 2014. Global late Quaternary megafauna extinctions linked to humans, not climate change. *Proceedings of the Royal Society B* 281, 9 pp.
- Schroth, Adella. 1979. *The History of Archaeological Research on Irvine Ranch Property: The Evolution of a Company Tradition*. OR-305. Report on file at the South Central Coastal Information Center, California State University, Fullerton.
- Society for Vertebrate Paleontology (SVP). 1995. Assessment and mitigation of adverse impacts to nonrenewable paleontologic resources: standard guidelines. *Society of Vertebrate Paleontology News Bulletin* 163:22-27.
- . 2010. *Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources*, Electronic resource, <http://vertpaleo.org/PDFS/8f/8fe02e8f-11a9-43b7-9953-cdcfaf4d69e3.pdf>, accessed March 18, 2018.
- Sparkman, Philip Stedman. 1908. *The Culture of the Luiseño Indians*. University of California Publications in American Archaeology and Ethnology 8(4).
- Starr, Kevin. 2007. *California: A History*. Modern Library.
- Strozier, Hardy. 1978. *The Irvine Company Planning Process and California Archaeology- A Review and Critique*. OR-2225. Report on file at the South Central Coastal Information Center, California State University, Fullerton.



- U.S. Department of the Interior, National Park Service. 2002. *National Register Bulletin: How to Apply the National Register Criteria for Evaluation*. National Park Service, Washington, D.C.
- Vellanoweth, R.L. and J.H. Altschul. 2002. Antiquarians, Culture Historians, and Scientists: The Archaeology of the Bight, in *Islanders and Mainlanders: Prehistoric Context for the Southern California Bight*, edited by J.H. Altschul and D.G. Grenda, pp. 85-111, SRI Press, Tucson.
- Wallace, William J. 1955. A Suggested Chronology for southern California Coastal Archaeology. *Southwestern Journal of Anthropology* 11(3); 214-230, 1955.
- Warheit, K. I. 1992. A Review of the Fossil Seabirds from the Tertiary of the North Pacific: Plate Tectonics, Paleoceanography, and Faunal Change. *Paleobiology* 18: 401-424.
- Warren, Claude 1968. Cultural Tradition and Ecological Adaptation on the Southern California Coast, in *Archaic Prehistory in the Western United States*, edited by C. Irwin-Williams, pp 1-14. Eastern New Mexico University Contributions in Anthropology, 1(3).
- WRA Environmental Consultants (WRA). 2009. *Big Canyon Creek Restoration Project Revised Initial Study, Newport Beach, Orange County, California*. Prepared for the City of Newport Beach. On file at ESA, Los Angeles, California.

## **APPENDIX A**

---

### Personnel



# Michael R. Bever, PhD, RPA

## Senior Cultural Resources Specialist

### EDUCATION

Ph.D., Anthropology,  
Southern Methodist  
University, Dallas

M.A., Anthropology,  
Southern Methodist  
University, Dallas

B.A., Anthropology,  
with honors, History  
minor, University of  
California, Davis

### 23 YEARS EXPERIENCE

### PROFESSIONAL CERTIFICATIONS

Register of  
Professional  
Archaeologists (RPA),  
#16583

County of San Diego  
CEQA Consultant List  
for Archaeology

Riverside County  
Certification List for  
Archaeology

Secretary of the  
Interior and Caltrans  
Qualified as Principal  
Investigator

Certified in CA and NV  
as Principal under  
BLM Cultural  
Resources Use  
Permits

40-Hour HAZWOPER  
Certification

Dr. Michael Bever has over 20 years of experience in archaeology and cultural resources management. He has worked throughout the western United States, with a focus in California. He has experience and specialized training in project management, business development, and cultural resources practice oversight, and has directed projects involving a wide breadth of resource types in compliance with federal and state laws and regulations. Dr. Bever's experience includes all manner of cultural resources studies and documentation for projects both large and small, and he has presented various cultural resources management training courses in both professional and academic settings.

In addition to work in cultural resources management, Dr. Bever has held tenure-track professorships at the University of Texas at Austin and the University of Nevada, Reno. A published expert in the earliest prehistory of North America, he is well-versed in archaeological research design and all aspects of archaeological field and laboratory research.

### Relevant Experience

**Big Canyon Wetland Restoration Project, City of Newport Beach, CA.** *Cultural Resources Manager.* Unfiltered urban runoff carried by Big Canyon Creek is a water quality issue having potentially negative impacts on Upper Newport Bay and the nearly 500 species of animals, fish, and plants that reside in the Bay. ESA completed the CEQA documentation and prepared and submitted the permits for all the project components. Dr. Bever directed Phase I cultural resources studies, which included archival research, a geoarchaeological assessment, field survey, reporting, and coordination with local Native American tribes. ESA successfully met a fast track CEQA and permit approval schedule of nine months from preparation to approval.

**Sorrento/Los Peñasquitos Waterways Restoration and Improvement Project, City of San Diego, San Diego County, CA.** *Cultural Resources Manager.* The Sorrento/Los Peñasquitos project seeks to restore portions of historic salt marsh in the southeastern portion of the Los Peñasquitos Lagoon, along with providing channel enhancements, creation of tidal channels, tidal wetland grading, sediment management, and habitat creation within parcels of land owned and managed by the City of San Diego, State Coastal Conservancy, and California State Parks. Dr. Bever oversaw Phase I cultural resource studies, which consisted of background research, coordination with California State Parks and the Native American Heritage Commission, and an intensive field survey. Over 12 archaeological resources from both the historic and prehistoric periods were documented. The study was conducted in compliance with CEQA and the results will be used to refine project design and implementation.

**Pacific Beach Drainage Remediation, City of San Diego, CA.** *Cultural Resources Manager.* ESA prepared a grant under the San Diego County Vector Control Program to address continuous ponding of water within an

## **PROFESSIONAL AFFILIATIONS**

Society for American Archaeology

Society for California Archaeology

## **SPECIALIZED EXPERIENCE AND TRAINING**

Advanced Project Management, ESA

Project Management and Advanced Project Management, Project Management Institute

Best Practices in Historic Preservation, City of San Diego and California Office of Historic Preservation

Paleontological Monitor Training, San Jose State University

Numerous CEQA, NEPA and Section 106 training programs

Effective Presentation Skills: The Shortlist Interview Toolbox, The Professional Voice

existing drainage ditch that runs adjacent to the Mission Bay High School and along Pacific Beach Drive, and a storm drain outfall in Kendall Frost Marsh (DEH Site #499). ESA was then awarded the planning, design, and permitting of this project, which will include removal of accumulated sediment and extensive vegetation from the storm drain channel where ponded water is observed. ESA designed and permitting the required mitigation measures, which include the restoration of tidal wetlands in Kendall Frost Marsh where fill material will be removed and tidal channels reestablished. Dr. Bever directed a Phase I cultural resources inventory for the project, which involved archival research, paleontological background research, tribal outreach, field survey, and reporting, including preparation of mitigation measures designed to avoid impacts to any resources that might be found in this environmentally sensitive area.

**Los Cerritos Wetlands and Oil Production Project EIR, Long Beach, CA. *Cultural Resources Specialist.*** ESA is has prepared an EIR for the Los Cerritos Wetlands and Oil Production project in the City of Long Beach. The project includes a comprehensive wetlands restoration that will restore a privately owned oil field in the City of Long Beach through the creation of a wetlands mitigation bank. The project will occur on four properties and will relocate and modernize existing oil production facilities. In addition, the project will include the construction of facilities to support oil production and will include a visitor's center and pedestrian paths on the newly restored wetlands. Dr. Bever conducted peer review of archaeological, historical, and paleontological resources technical reports, provided assistance with AB 52 consultation, and prepared the cultural resources section of the EIR.

**Oceanside Coast Highway Corridor Project, City of Oceanside, CA. *Cultural Resources Manager.*** ESA prepared an EIR for the final Coast Highway Corridor Study. The EIR included both project-level and programmatic-level components. The Coast Highway Corridor Study will implement the Coast Highway Vision and Strategic Plan and will create a transportation blueprint for the Coast Highway corridor providing travel options and parking solutions to transform Coast Highway from a more auto-oriented thoroughfare into a "complete street". Dr. Bever directed cultural resources technical studies and preparation of the cultural resources EIR section for the project. The studies included archival and historical research, NAHC outreach, and field survey for both built and archaeological resources. While minimal archaeological resources were identified, numerous historical buildings were documented. Separate project and programmatic-level mitigation was developed to ensure future protection of cultural resources.

**Montezuma Channel Repair, City of San Diego, California. *Cultural Resources Manager.*** Dr. Bever oversaw cultural resource studies for the City's channel repair project in Montezuma Channel. The project requires an evaluation for substantial conformance with the City's Master Maintenance Program, derived from a program-level EIR and meeting the City's Historical Resources Guidelines. Cultural resource studies included a records search, field survey, and preparation of an Individual Historic Assessment (IAH).

**Cogswell Reservoir Sediment Removal Project, Los Angeles National Forest, Los Angeles County, CA. *Cultural Resources Manager.*** ESA retained by the County of Los Angeles Department of Public Works, Water Resources Division to prepare a Cultural Resources Assessment in support of the Cogswell Reservoir Sediment Removal Project. The purpose of the project is to remove debris and sediment from Cogswell Reservoir associated with the August 26, 2009 Station Fire in the Angeles National Forest. Dr. Bever managed the cultural resources study, which involved

coordination with the United States Forest Service, preparation of a work plan and Archaeological Resources Protection Act permit, field survey, and preparation of a Cultural Resources Assessment Report meeting both CEQA and Section 106 of the National Historic Preservation Act requirements.

**Los Angeles County Sanitation District, Joint Water Pollution Control Plant Biogas Conditioning System Project, Carson, CA. *Cultural Resources Manager.*** ESA prepared the Mitigated Negative Declaration (MND) for the Joint Water Pollution Control Plant (JWPCP) Biogas Conditioning System project. The MND evaluated the installation of a biogas conditioning system and associated pipelines (biogas supply pipeline, tail gas return pipeline, drain water pipeline) within the JWPCP and across a public roadway. Dr. Bever directed the cultural resources studies for this fast-paced MND preparation, which involved a Phase 1 archaeological study with a site survey, and participation in Native American consultation with the District.

**Ballona Wetlands Restoration Project, California State Coastal Conservancy, Los Angeles, CA. *Cultural Resources Manager.*** The historical Ballona Wetlands, which is now reduced to 577 acres (and only 12 percent of that is tidally influenced), once occupied a 2,000-acre expanse of critical coastal habitat and included some of the most diverse wetland habitat types in the Los Angeles Basin due to the presence of both freshwater and saltwater environments. The Ballona Wetlands Restoration EIR/EIS evaluates four alternatives that include the following key elements: ecosystem restoration, flood and stormwater management (by allowing a naturalized, rather than concrete-lined, Ballona Creek), public access improvements, infrastructure and utility modifications (including abandonment and relocation of Southern California Gas Company monitoring wells and pipelines), a full-scale implementation and restoration program, a state-of-the-art monitoring and adaptive management program, and ongoing operations and maintenance activities. Over more than seven years, Dr. Bever has directed or overseen aspects of the cultural resources studies for the Ballona Wetlands Restoration Project. The cultural resources component of the project has involved field survey and excavation, archival research, geoarchaeological assessment, SHPO and USACE outreach, and reporting to document cultural resources in the area. The area is considered exceptionally sensitive to local Native American groups and extensive consultation and coordination with local tribes and the California Department of Parks and Recreation has been essential. Documents, including cultural resources technical studies and an EIR/EIS, were prepared for the California Coastal Conservancy and the USACE.

**County Flume Trail Cultural Resources Study, San Diego County Department of Parks and Recreation, San Diego County, CA. *Project Manager.*** Dr. Bever oversaw cultural resources studies (as well as biological studies) for an inventory and evaluation study of a 2.5-mile multi-use trail that follows the bench-cut alignment of the historic San Diego County flume, constructed in 1888. Studies involved Native American consultation, extensive archival research into the history of the flume, field survey, recording of various flume-related features, resource evaluation, and reporting. As a CRHR and NRHP eligible resource, the technical document includes mitigation measures and management protocols for avoidance of impacts to this important local resource. The technical report, prepared to comply with Section 106, will be used in support of a CEQA Initial Study.



# Matthew Gonzalez

## Archaeologist

### EDUCATION

B.A., Classical  
Archaeology,  
University of  
California, Santa  
Barbara, California

### 13 YEARS EXPERIENCE

### PROFESSIONAL AFFILIATIONS

Society for California  
Archaeology (SCA)

Society for American  
Archaeology (SAA)

### SPECIALIZED TRAINING

40-Hour HAZWOPER  
Training (Update),  
2018

HAZCON Certified  
2016

Cultural Resources  
Protection Under  
CEQA and Other  
Legislative Mandates,  
UCLA Extension, 2008

Riverside County  
Archaeology and  
Cultural Sensitivity  
Training Program,  
2007

CA State BLM  
Permitted

National Preservation  
Institute Section 106:  
An Introduction  
Seminar Certified (18-  
hour)

Compliance  
Monitoring

Paleontological  
Resources Monitoring

Matthew Gonzalez has 13 years of experience in cultural resources management in California. Matthew serves as a Project Manager and Field Director for ESA's cultural resources group. He has led numerous archaeological surveys throughout Southern California and Arizona, and has extensive experience with documentation of cultural resources, Native American outreach, archaeological testing and excavation methods, laboratory analysis, and soil analysis. Matthew possesses specialized expertise in faunal and lithic analyses. Matthew regularly prepares technical reports in support of CEQA, NEPA, and Section 106, as well as environmental compliance documents. He is skilled in the application of Geographic Information Systems (GIS)/Global Positioning Systems (GPS) to facilitate field investigations and record searches, and in the use of ArcView and Google Earth to develop field maps. Matthew is cross-trained in paleontology and has served as a paleontological surveyor and monitor on numerous projects.

## Relevant Experience

### **Irvine Ranch Water District, Peters Canyon Channel Reuse Pipeline Project, Orange County, CA. *Field Director.***

ESA was tasked by the Irvine Ranch Water District to perform a Phase I assessment for the project. The proposed project will divert high selenium nuisance surface and groundwater flows from the channel to the Orange County Sanitation District for treatment and reuse. Matthew conducted archival research, led the cultural resources survey, and co-authored the Phase I technical report.

### **Irvine Ranch Water District Biosolids Handling and Energy Recovery Facilities Project, Irvine, CA. *Archaeological and Paleontological Monitor.***

ESA has been retained by the Irvine Ranch Water District (IRWD) to conduct ongoing cultural and paleontological resources monitoring for the Biosolids Handling and Energy Recovery Project (Project). IRWD is constructing a new solids-handling facilities at the Michelson Water Recycling Plant (MWRP) located in Irvine, California. The facilities would thicken, stabilize, dewater, and dry solids that are generated at the MWRP. Matthew conducted archaeological and paleontological monitoring of construction activities associated with the Project.

### **Cogswell Reservoir Sediment Removal Project, Los Angeles National Forest, Los Angeles County, CA. *Archaeologist.***

ESA retained by the County of Los Angeles Department of Public Works, Water Resources Division to prepare a Cultural Resources Assessment in support of the Cogswell Reservoir Sediment Removal Project. The purpose of the project is to remove debris and sediment from Cogswell Reservoir associated with the August 26, 2009 Station Fire in the Angeles National Forest. Matthew assisted with the survey for the project.

**Santa Susana Field Laboratory EIR, Ventura County, CA. *Archaeologist.***

The Santa Susana Field Laboratory is a former rocket engine test, nuclear, and liquid metals research facility located on a 2,849- acre portion of the Simi Hills in Simi Valley, California. The uses of hazardous substances at the field laboratory such as trichloroethylene and other solvents, heavy metals, and radioactive material have resulted in soil and/or groundwater contamination. The field laboratory is currently the focus of a comprehensive environmental investigation and cleanup program, conducted by Boeing, the United States Department of Energy (DOE) and the National Aeronautics and Space Administration (NASA), and overseen by the Department of Toxic Substances Control (DTSC). ESA is preparing a Program EIR which will evaluate soil and groundwater remediation activities. Because there are multiple responsible parties with separate cleanup actions, the Program EIR will provide a framework for tiered environmental documents to be prepared to address the development and refinement of remediation approaches and actions. Matthew has assisted in background research, GIS/Map work, and report writing.

**Water Replenishment District of Southern California Groundwater Reliability Improvement Project, *Compliance Monitor.*** ESA is retained by the Water Replenishment District to conduct environmental compliance monitoring of the conditions contained in the Mitigation and Monitoring Reporting Programs associated with three environmental documents pertaining to three infrastructure components associated with the project including the Final Environmental Impact Report (EIR), a Mitigated Negative Declaration, and a Supplemental EIR. ESA provides general compliance monitoring at varying rates of frequency depending on the nature of the activities and is sometimes on site for 4-hour spot checks and other times for full 24-hour rotations. Matthew conducts monitoring during project construction focused on issues including noise, vibration, night lighting, haul routes, dust, and storm water pollution, in addition to monitoring for archaeological and paleontological resources.

**Ballona Wetland Restoration, Playa Del Rey, CA. *Archaeologist.*** As part of the development of the restoration plan for the Ballona Wetlands, the ESA project team characterized existing conditions that included water and sediment sampling and analysis. The water and sediment quality sampling was performed to develop and evaluate potential restoration alternatives, and to develop a conceptual plan. The ESA project team compiled existing data on and conducted additional sampling for water and sediment to assess potential effects on the proposed wetland restoration habitat from the use of urban runoff and tidal in-flow from Ballona Creek. These data were used to complete a baseline report and restoration alternatives assessment. Matthew assisted in survey, data recovery, artifact analysis and the Technical Report.

**Green Acres Memorial Park, Malibu, CA. *Archaeologist.*** ESA was retained by Green Acres to implement a Phase II archaeological investigation and evaluation program for archaeological resources CA-LAN-266 and CA-LAN-1715 to evaluate the resources' eligibility for listing in the California Register of Historical Resources (CRHR) under Criterion 4 (yields or has the potential to yield important information about prehistory) and to determine whether they qualify as "historical resources" under the California Environmental Quality Act (CEQA). Matthew assisted in the survey and Phase II testing.





# Alyssa Bell, PhD

## Paleontologist

### EDUCATION

Ph.D., Vertebrate Paleontology;  
University of Southern California

M.S., Environmental Microbiology;  
University of Tennessee

B.A. with honors, Ecology and Systematics; William Jewell College & Homerton College, Cambridge University

### 10 YEARS EXPERIENCE

Dr. Alyssa Bell has supervised and performed field work, authored project reports, and provided scientific and compliance direction and quality control for paleontological projects throughout Southern California. Dr. Bell has accumulated a wealth of field experience, working with crews from a variety of institutions on field sites in California, Arizona, New Mexico, South Dakota, and Utah, and has led her own expeditions in Montana. She has performed all manner of investigations from surveys and assessments to monitoring and fossil identification over the last 15 years as a part of her academic pursuits and professional consultation, with the last three years being exclusively professional endeavors.

In addition to consulting, Dr. Bell serves as a postdoctoral fellow at the Dinosaur Institute of the Natural History Museum of Los Angeles County (LACM). There she is involved in pursuing her own research into fossil birds as well as working with the Institute's field projects and museum-wide education and outreach initiatives. She has also published peer-reviewed articles and book chapters and given numerous presentations at scientific conferences on both her paleontological and microbiological research.

## Relevant Experience

**ICHA Area 10 (PA 10-2 & 10-4) Archaeological and Paleontological Monitoring, Irvine, CA.** *Principal Investigator & Project Paleontologist.* Dr. Bell managed the curatorial process for fossils collected during monitoring of pre-construction activities at the University of California, Irvine, and authored the final report.

**Suncrest Reactive Power Support Project, San Diego County, CA.** *Principal Investigator.* Dr. Bell authored the paleontological assessment for the Proponent's Environmental Assessment (PEA) in support for a dynamic reactive power support facility and associated 230-kilovolt (kV) transmission line near Alpine, California. The application for Certificate of Public Convenience and Necessity was filed in summer 2015 and the PEA was deemed complete in December 2015.

**Washington National Archaeological and Paleontological Monitoring (Access Culver City), Culver City, CA.** *Principal Investigator & Project Paleontologist.* Dr. Bell managed the curatorial process for fossils collected during monitoring of pre-construction activities at the Washington national site in Culver City, CA and authored the final report.

**OTO Hotels Santa Monica Archaeological and Paleontological Service, Santa Monica, CA.** *Principal Investigator.* Dr. Bell supervised paleontological monitoring and mitigation services during construction excavations and grading. Services included implementation of a paleontological mitigation monitoring program and reporting.



**Sacred Heart Specific Plan Environmental Impact Report (EIR), La Canada Flintridge, CA. *Principal Investigator.*** Dr. Bell prepared paleontological studies and developed monitoring & mitigation recommendations for the Sacred Heart development project.

**Sixth & Bixel Paleontological Monitoring Services Project, Los Angeles, CA. *Principal Investigator & Project Paleontologist.*** Dr. Bell supervised paleontological monitoring of preconstruction activities in support of a development project encompassing two parcels in downtown Los Angeles. During these activities, monitors identified and recovered numerous significant vertebrate fossils. Dr. Bell supervised the excavation of fossilized whale remains discovered on-site, and oversaw the collection and curation of all fossil specimens.

**Natural and Cultural Support for the Gordon Mull Subdivision EIR, Glendora, CA. *Principal Investigator.*** Dr. Bell collected the necessary data to prepare the technical sections and mitigation recommendations to support an EIR prepared by another firm to address the Gordon Mull Subdivision in the city of Glendora. The project is proposes to redevelop a 71-acre, 19-lot located in the San Gabriel Foothills.

**Lake Elsinore Lakeshore Town Center Permitting, Riverside County, CA. *Principal Investigator.*** Dr. Bell provided paleontological studies and developed monitoring and mitigation recommendations for the Lake Elsinore Town Center project in Riverside County.

**San Pedro Plaza Park - Phase III Archaeological Monitor, Los Angeles, CA. *Principal Investigator.*** Dr. Bell identified fossils during the mitigation measurement-required archaeological monitoring of earthmoving activities in San Pedro Park Plaza. She is also responsible for curation of the fossil material and authorship of the paleontological section of the final report.

**City of Hope Specific Plan and EIR, Duarte, CA. *Principal Investigator.*** Dr. Bell provided paleontological resource studies for the City of Hope Specific Plan Project.

**Blythe Solar Power Project, Units 1 & 2, Riverside County, CA. *Project Paleontologist.*** Dr. Bell supervised paleontological monitoring of preconstruction activities for a solar photo-voltaic cell power-generating facility outside the city of Blythe. As a part of her role, she provided oversight and management of paleontological monitors and development of the final monitoring report.

**Industrial Project Environmental Impact Report, Colton, CA. *Principal Investigator.*** Dr. Bell provided a paleontological resources study for a six-acre industrial project site at the southwest corner of Agua Mansa Road and Rancho Avenue in the city of Colton.

**Mojave Solar Project Paleontological Reporting, San Bernardino County, CA. *Principal Investigator.*** Dr. Bell managed curation of fossil materials and authored the final report of paleontological monitoring services provided for construction activities in support of a solar field development project in San Bernardino County.

**El Camino Real Bridge Replacement Environmental Services, Atascadero, CA. *Principal Investigator.*** Dr. Bell provided environmental services, including preparation of all California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA) documentation, technical

studies, and permitting, for the replacement of the El Camino Real Bridge over Santa Margarita Creek in Atascadero.

**Recycled Water Transmission Water Main Paleo Monitoring, Fresno, CA.** *Principal Investigator.* Dr. Bell developed a monitoring and mitigation plan for the city of Fresno recycled water main construction project.

**Shafter Wasco Irrigation District Natural and Cultural Resource Evaluations and Air Quality, Kern County CA.** *Principal Investigator.* Dr. Bell provided paleontological studies and developed recommendations for the monitoring and mitigation of paleontological resources for the project.

**Valentine EIR, Kern County, CA.** *Principal Investigator.* Dr. Bell provided paleontological resources support for a 2,000-acre solar PV project in the Mojave Desert. Deliverables included comprehensive technical reports, GIS impact analysis, strategic and permitting support, and a paleontological field survey in the preparation of an EIR and other permitting requirements.

**Valentine Solar EIR 115MW Supplemental Reports, Kern County, CA.** *Principal Investigator.* Dr. Bell provided paleontological studies in support of changes to the previously established Valentine Solar project.

**Valentine Solar Biological and Paleontological Study Updates, Rosamond, Kern County, CA.** *Principal Investigator & Project Paleontologist.* Dr. Bell provided paleontological studies, carried out a paleontological survey, and developed monitoring and mitigation guidelines for the Valentine Solar project.

## **APPENDIX B**

---

### Sacred Lands File Search



770 Paseo Camarillo, Suite 310  
Camarillo, CA 93010  
805.914.1500  
805.914.1501 fax

[www.esassoc.com](http://www.esassoc.com)

March 18, 2018

Native American Heritage Commission  
1550 Harbor Boulevard, Suite 100  
West Sacramento, CA 95691  
FAX- 916-373-5471

**Subject: SLF search request for the Proposed Big Canyon Restoration Project, Phase 2A, City of Newport Beach, California (D171063.00)**

To whom it may concern:

The Newport Bay Conservancy proposes to implement Phase 2A of the Big Canyon Restoration Project (project). The project is located in the City of Newport Beach, within Orange County, as shown in the attached map (Figure 1). The Phase 2A project area measures approximately 9.2 acres. The project would involve restoration planning and design, including invasive plant removal and limited grading, followed by native plant revegetation and management, including possible soil amendment, to restore riparian and upland habitats. The enclosed map shows the project area located in the Newport Beach (Digital) USGS 7.5' Quad, Township 6 South/Range 10 West, in section 25.

In an effort to provide an adequate appraisal of all potential impacts that may result from the proposed project, ESA is requesting that a Sacred Lands File search be conducted for sacred lands or traditional cultural properties that may exist within the proposed project area. We additionally request the names and contact information for Native American representatives who are associated with the proposed project area so that we may provide these individuals with information regarding the proposed project.

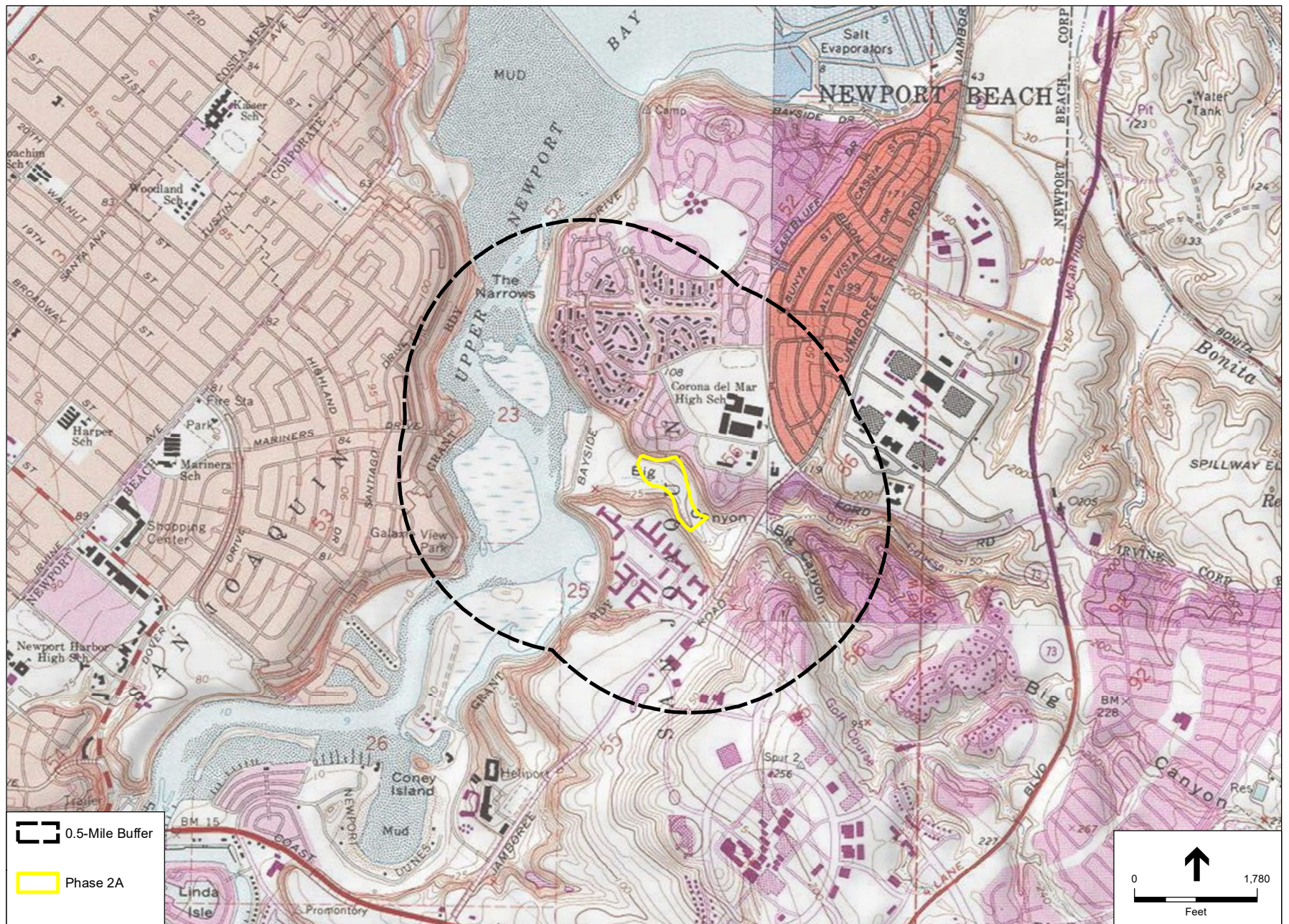
Thank you for your time and cooperation regarding this matter. To expedite the delivery of search results, please e-mail them to [mgonzalez@esassoc.com](mailto:mgonzalez@esassoc.com). Please contact me at 805.705.5513 or via e-mail me if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Matthew Gonzalez". The signature is written in a cursive, flowing style.

Matthew Gonzalez  
Cultural Resources





Big Canyon Restoration Project, Phase 2a . D171063

**Figure 1**  
Project Map



**NATIVE AMERICAN HERITAGE COMMISSION**

Cultural and Environmental Department  
1550 Harbor Blvd., ROOM 100  
West SACRAMENTO, CA 95691  
(916) 373-3710



March 20, 2018

Matthew Gonzalez  
Environmental Science Associates

Sent by E-mail: mgonzalez@esassoc.com

RE: Proposed Big Canyon Restoration Phase 2A Project, City of Newport Beach; Newport Beach USGS Quadrangle, Orange County, California

Dear Mr. Gonzalez:

Attached is a list of tribes that have cultural and traditional affiliation to the areas of potential project effect (APE) referenced above. I suggest you contact all of those listed, if they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult, as may be required under particular state statutes. If a response has not been received within two weeks of notification, the Native American Heritage Commission (NAHC) requests that you follow-up with a telephone call to ensure that the project information has been received.

**THIS INFORMATION IS CONFIDENTIAL! PLEASE DO NOT INCLUDE IN PUBLIC DOCUMENTS.**

A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* (SLF) was completed for the area of potential project effect (APE) for the above referenced project. Sites have been located within several of the quadrangles you provided that may be impacted by the project. Please immediately contact the Juaneño Band of Mission Indians – Acjachemen Nation at (949) 293-8522 for more information about these sites.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance, we are able to assure that our lists contain current information. If you have any questions, please contact me at my email address: [gayle.totton@nahc.ca.gov](mailto:gayle.totton@nahc.ca.gov).

Sincerely,

*Gayle Totton*

Gayle Totton, M.A., PhD.

Associate Governmental Program Analyst  
(916) 373-3714

**Native American Heritage Commission  
Native American Contact List  
Orange County  
3/20/2018**

***Campo Band of Mission Indians***

Ralph Goff, Chairperson  
36190 Church Road, Suite 1      Kumeyaay  
Campo, CA, 91906  
Phone: (619) 478 - 9046  
Fax: (619) 478-5818  
rgoff@campo-nsn.gov

***Ewiiapaayp Tribal Office***

Michael Garcia, Vice Chairperson  
4054 Willows Road      Kumeyaay  
Alpine, CA, 91901  
Phone: (619) 445 - 6315  
Fax: (619) 445-9126  
michaelg@leaningrock.net

***Ewiiapaayp Tribal Office***

Robert Pinto, Chairperson  
4054 Willows Road      Kumeyaay  
Alpine, CA, 91901  
Phone: (619) 445 - 6315  
Fax: (619) 445-9126  
wmicklin@leaningrock.net

***Gabrieleno Band of Mission Indians - Kizh Nation***

Andrew Salas, Chairperson  
P.O. Box 393      Gabrieleno  
Covina, CA, 91723  
Phone: (626) 926 - 4131  
admin@gabrielenoindians.org

***Gabrieleno/Tongva San Gabriel Band of Mission Indians***

Anthony Morales, Chairperson  
P.O. Box 693      Gabrieleno  
San Gabriel, CA, 91778  
Phone: (626) 483 - 3564  
Fax: (626) 286-1262  
GTTribalcouncil@aol.com

***Gabrielino /Tongva Nation***

Sandonne Goad, Chairperson  
106 1/2 Judge John Aiso St.,      Gabrielino  
#231  
Los Angeles, CA, 90012  
Phone: (951) 807 - 0479  
sgoad@gabrielino-tongva.com

***Gabrielino Tongva Indians of California Tribal Council***

Robert Dorame, Chairperson  
P.O. Box 490      Gabrielino  
Bellflower, CA, 90707  
Phone: (562) 761 - 6417  
Fax: (562) 761-6417  
gtongva@gmail.com

***Gabrielino-Tongva Tribe***

Charles Alvarez,  
23454 Vanowen Street      Gabrielino  
West Hills, CA, 91307  
Phone: (310) 403 - 6048  
roadkingcharles@aol.com

***Jamul Indian Village***

Erica Pinto, Chairperson  
P.O. Box 612      Kumeyaay  
Jamul, CA, 91935  
Phone: (619) 669 - 4785  
Fax: (619) 669-4817  
mohusky@jiv-nsn.gov

***Juaneno Band of Mission Indians***

Sonia Johnston, Chairperson  
P.O. Box 25628      Juaneno  
Santa Ana, CA, 92799  
sonia.johnston@sbcglobal.net

***Juaneno Band of Mission Indians Acjachemen Nation - Belardes***

Matias Belardes, Chairperson  
32161 Avenida Los Amigos      Juaneno  
San Juan Capistrano, CA, 92675  
Phone: (949) 293 - 8522  
kaamalam@gmail.com

***Juaneno Band of Mission Indians Acjachemen Nation - Belardes***

Joyce Perry, Tribal Manager  
4955 Paseo Segovia      Juaneno  
Irvine, CA, 92603  
Phone: (949) 293 - 8522  
kaamalam@gmail.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Big Canyon Restoration Phase 2A Project, Orange County.

**Native American Heritage Commission  
Native American Contact List  
Orange County  
3/20/2018**

**Juaneno Band of Mission  
Indians Acjachemen Nation -  
Romero**

Teresa Romero, Chairperson  
31411-A La Matanza Street      Juaneno  
San Juan Capistrano, CA, 92675  
Phone: (949) 488 - 3484  
Fax: (949) 488-3294  
tromero@juaneno.com

**San Pasqual Band of Mission  
Indians**

John Flores, Environmental  
Coordinator  
P. O. Box 365      Kumeyaay  
Valley Center, CA, 92082  
Phone: (760) 749 - 3200  
Fax: (760) 749-3876  
johnf@sanpasqualtribe.org

**La Posta Band of Mission  
Indians**

Javaughn Miller, Tribal  
Administrator  
8 Crestwood Road      Kumeyaay  
Boulevard, CA, 91905  
Phone: (619) 478 - 2113  
Fax: (619) 478-2125  
jmiller@LPtribe.net

**San Pasqual Band of Mission  
Indians**

Allen E. Lawson, Chairperson  
P.O. Box 365      Kumeyaay  
Valley Center, CA, 92082  
Phone: (760) 749 - 3200  
Fax: (760) 749-3876  
allenl@sanpasqualtribe.org

**La Posta Band of Mission  
Indians**

Gwendolyn Parada, Chairperson  
8 Crestwood Road      Kumeyaay  
Boulevard, CA, 91905  
Phone: (619) 478 - 2113  
Fax: (619) 478-2125  
LP13boots@aol.com

**Sycuan Band of the Kumeyaay  
Nation**

Cody J. Martinez, Chairperson  
1 Kwaaypaay Court      Kumeyaay  
El Cajon, CA, 92019  
Phone: (619) 445 - 2613  
Fax: (619) 445-1927  
ssilva@sycuan-nsn.gov

**Manzanita Band of Kumeyaay  
Nation**

Angela Elliott Santos, Chairperson  
P.O. Box 1302      Kumeyaay  
Boulevard, CA, 91905  
Phone: (619) 766 - 4930  
Fax: (619) 766-4957

**Sycuan Band of the Kumeyaay  
Nation**

Lisa Haws, Cultural Resources  
Manager  
1 Kwaaypaay Court      Kumeyaay  
El Cajon, CA, 92019  
Phone: (619) 312 - 1935  
lhaws@sycuan-nsn.gov

**San Fernando Band of Mission  
Indians**

Donna Yocum, Chairperson  
P.O. Box 221838      Kitanemuk  
Newhall, CA, 91322      Serrano  
Phone: (503) 539 - 0933      Tataviam  
Fax: (503) 574-3308  
ddyocum@comcast.net

**Viejas Band of Kumeyaay  
Indians**

Robert Welch, Chairperson  
1 Viejas Grade Road      Kumeyaay  
Alpine, CA, 91901  
Phone: (619) 445 - 3810  
Fax: (619) 445-5337  
jhagen@viejas-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Big Canyon Restoration Phase 2A Project, Orange County.



**Native American Heritage Commission  
Native American Contact List  
Orange County  
3/20/2018**

***Viejas Band of Kumeyaay  
Indians***

Julie Hagen,  
1 Viejas Grade Road  
Alpine, CA, 91901  
Phone: (619) 445 - 3810  
Fax: (619) 445-5337  
jhagen@viejas-nsn.gov

Kumeyaay

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Big Canyon Restoration Phase 2A Project, Orange County.

# Appendix E

## **Greenhouse Gas Emissions Modeling**

## **Big Canyon Phase 2A - Greenhouse Gas Appendix**

**Big Canyon Phase 2A - Greenhouse Gas Appendix**  
**Assumptions**

## Big Canyon Phase 2 Assumptions

### CalEEMod Inputs (Non-Default information only)

|                               |                            |
|-------------------------------|----------------------------|
| Project Location              |                            |
| County                        | Orange County              |
| Air District                  | SCAQMD                     |
| Climate Zone                  | 8                          |
| Operational Year              | 2020                       |
| Utility Provider              | Southern California Edison |
| Source Receptor Area (SCAQMD) | 20                         |

|              | Base      | 2015 <sup>1</sup> | 2020 <sup>1</sup> | 2030     |
|--------------|-----------|-------------------|-------------------|----------|
| CO intensity | 702.43634 | 531.7443094       | 411.6277          | 351.2182 |
| % renewable  | 0%        | 24.30%            | 41.40%            | 50.00%   |

<sup>1</sup> <http://www.cpuc.ca.gov/renewables/>

| Land Use  | Building<br>SQFT | Building KFS | (seat/<br>room/<br>space) | Acers | CalEEMod Land Use Type |
|-----------|------------------|--------------|---------------------------|-------|------------------------|
| City Park | 0                | 0.00         | 0                         | 9.6   |                        |
|           |                  |              |                           | 6.5   | acres disturbed        |

## Construction

### Construction Schedule

| Phases<br>(if applicable)                                     | Start<br>(month/date/<br>year) | Finish<br>(month/date/<br>year) | Days |                                                        |
|---------------------------------------------------------------|--------------------------------|---------------------------------|------|--------------------------------------------------------|
| 1A: Site Preparation                                          | 10/1/2019                      | 10/14/2019                      | 12   | (Grading)                                              |
| 1B: Clearing and Grubbing                                     | 10/2/2019                      | 11/12/2019                      | 36   | (Site Preparation)                                     |
| 1B: Haul Trucks                                               | 10/2/2019                      | 10/24/2019                      | 20   | (Site Preparation)                                     |
| 2A: Excavation and Grading                                    | 10/3/2019                      | 11/13/2019                      | 36   | (Grading Phase)                                        |
| 2B: On-site Filling in Upland Areas                           | 10/4/2019                      | 10/24/2019                      | 18   | (Grading)                                              |
| 2C: Fine Site Grading                                         | 10/5/2019                      | 10/25/2019                      | 18   | (Grading)                                              |
| 3A: Temporary Irrigation                                      | 10/6/2019                      | 10/19/2019                      | 12   | (Building Construction since no grading/soil movement) |
| 3B: Soil Amendments                                           | 10/7/2019                      | 10/19/2019                      | 12   | (Building Construction since no grading/soil movement) |
| 3C: Plantings for Riparian, Alkaline Meadow & Upland Habitats | 10/8/2019                      | 11/11/2019                      | 30   | (Building Construction since no grading/soil movement) |
| 4: Raise viewing area and trail upgrades                      | 10/9/2019                      | 10/29/2019                      | 18   | (grading)                                              |
| 5: Pruning, Soil Amendments, and other Measures               | 10/10/2019                     | 11/27/2019                      | 42   | (Building Construction since no grading/soil movement) |

#### Notes:

1. 5 Months of construction beginning in October 2019, followed by a 120 days plant establishment and maintenance period.

2. While not all phases will overlap, the modeling assumes that all phases will start in October 2019 to provide for worst case equipment emissions estimates. Phase overlaps are identified here and emissions from the phase overlaps are calculated outside of CalEEMod.

Overlap 1 Phase 1B and 2A

Overlap 2 Phase 2A, 2B, 2C

Overlap 3 Phase 2B, 2C, 3A, 4

Overlap 4 Phase 2C, 3A, 3B, 4

Overlap 5 Phase 3B, 3C, 4, 5

3. 8 employees would be onsite during any one phase during construction. Employees would consist of:

1 Construction Superintendent

2 Laborers

3 Equipment operators

2 haul truck drivers

4. Hauling of wood chips/vegetation would not overlap with the hauling of soil.

5. Hauling of woodchips and vegetation would occur over 20 days. Hauling of soil would occur over 5 days. Separate phases for haul trucks are added to ensure haul trucks are averaged over the correct number of days

## Construction Phases and Equipment Summary

The following construction equipment is anticipated to be used during construction activities.

|                                   | <u>HP</u> | <u>LF</u> |                                                                                                                                         |
|-----------------------------------|-----------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Rubber tired Loader               | 203       | 0.3618    |                                                                                                                                         |
| backhoe                           | 97        | 0.3685    |                                                                                                                                         |
| Rubber Tired dozer                | 247       | 0.4       |                                                                                                                                         |
| Plate Compactor                   | 8         | 0.43      |                                                                                                                                         |
| Other Material Handling Equipment | 168       | 0.3953    | (Chipper/Mulcher)                                                                                                                       |
| haul trucks                       | N/A       | N/A       | (Modeled under VMT not onsite equipment)                                                                                                |
| Off Highway Trucks                | 402       | 0.3819    | (water Truck)                                                                                                                           |
| Grader                            | 247       | 0.4       | (Not in equipment list but used for determining fugitive dust. HP of Dozer is used as a worst case in case an actual grader isn't used) |

### 1A: Site Preparation

Erosion and Sediment Control (Grading)

| <u>Equipment Type</u> | <u>#</u> | <u>Hrs/day</u> |
|-----------------------|----------|----------------|
| Rubber tired Loader   | 1        | 9              |
| backhoe               | 1        | 9              |
| Rubber Tired dozer    | 1        | 9              |

### 1B: Clearing and Grubbing (Site Preparation)

Clearing and Grubbing of 6.3 acres of site

0 Cubic yards of import  
7,500 cubic yards of wood chip removal  
250 truck loads total

| <u>Equipment Type</u>             | <u>#</u> | <u>Hrs/day</u> |
|-----------------------------------|----------|----------------|
| Rubber tired Loader               | 1        | 9              |
| backhoe                           | 1        | 9              |
| Rubber Tired dozer                | 1        | 9              |
| Other Material Handling Equipment | 1        | 9              |
| Off Highway Trucks                | 1        | 4              |

### 2A: Excavation and Grading (Grading Phase)

Creek Restroation

0 Cubic yards of import  
1,500 cubic yards of export  
50 truck loads total

| <u>Equipment Type</u> | <u>#</u> | <u>Hrs/day</u> |
|-----------------------|----------|----------------|
| Rubber tired Loader   | 1        | 9              |
| backhoe               | 1        | 9              |
| Compactor             | 1        | 5              |
| Grader                | 1        | 9              |
| Off Highway Trucks    | 1        | 4              |

**2B: On-site Filling in Upland Areas**

(Grading)

| <b><u>Equipment Type</u></b> | <b><u>#</u></b> | <b><u>Hrs/day</u></b> |
|------------------------------|-----------------|-----------------------|
| Rubber tired Loader          | 1               | 9                     |
| backhoe                      | 1               | 9                     |
| Compactor                    | 1               | 5                     |
| Off Highway Trucks           | 1               | 4                     |

**2C: Fine Site Grading**

(Grading)

0 Cubic yards of import  
0 Cubic yards of export  
0 truck loads total

| <b><u>Equipment Type</u></b> | <b><u>#</u></b> | <b><u>Hrs/day</u></b> |
|------------------------------|-----------------|-----------------------|
| Rubber tired Loader          | 1               | 9                     |
| backhoe                      | 1               | 9                     |
| Grader                       | 1               | 9                     |
| Off Highway Trucks           | 1               | 4                     |

**3A: Temporary Irrigation**

(Building Construction since no grading/soil movement)

| <b><u>Equipment Type</u></b> | <b><u>#</u></b> | <b><u>Hrs/day</u></b> |
|------------------------------|-----------------|-----------------------|
| Off Highway Trucks           | 1               | 4                     |

**3B: Soil Amendments**

(Building Construction since no grading/soil movement)

| <b><u>Equipment Type</u></b> | <b><u>#</u></b> | <b><u>Hrs/day</u></b> |
|------------------------------|-----------------|-----------------------|
| Rubber tired Loader          | 1               | 9                     |
| Off Highway Trucks           | 1               | 4                     |

**3C: Plantings for Riparian, Alkaline Meadow & Upland Habitats**

(Building Construction since no grading/soil movement)

| <b><u>Equipment Type</u></b> | <b><u>#</u></b> | <b><u>Hrs/day</u></b> |
|------------------------------|-----------------|-----------------------|
| Rubber tired Loader          | 1               | 9                     |
| backhoe                      | 1               | 9                     |
| Off Highway Trucks           | 1               | 4                     |



**4: Raise viewing area and trail upgrades**

(grading)

0 Cubic yards of import  
 0 Cubic yards of export  
 0 truck loads total

| <b><u>Equipment Type</u></b> | <b><u>#</u></b> | <b><u>Hrs/day</u></b> |
|------------------------------|-----------------|-----------------------|
| backhoe                      | 1               | 9                     |
| Rubber Tired dozer           | 1               | 9                     |
| Compactor                    | 1               | 5                     |
| Off Highway Trucks           | 1               | 4                     |

**5: Pruning, Soil Amendments, and other Measures**

(Building Construction since no grading/soil movement)

| <b><u>Equipment Type</u></b> | <b><u>#</u></b> | <b><u>Hrs/day</u></b> |
|------------------------------|-----------------|-----------------------|
| Rubber tired Loader          | 1               | 9                     |
| backhoe                      | 1               | 9                     |
| Off Highway Trucks           | 1               | 4                     |

**Construction Trips and Vehicle Miles Traveled**

| <b>Phase Name</b>                                             | <b>Worker</b>  |                 | <b>Vendor</b>  |                 | <b>Haul</b>    |                 |
|---------------------------------------------------------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
|                                                               | <b># Trips</b> | <b>VMt/Trip</b> | <b># Trips</b> | <b>VMt/Trip</b> | <b># Trips</b> | <b>VMt/Trip</b> |
| 1A: Site Preparation                                          | 20             | 14.7            | 0              | 6.9             | 0              | 20              |
| 1B: Clearing and Grubbing                                     | 20             | 14.7            | 0              | 6.9             | 250            | 20              |
| 2A: Excavation and Grading                                    | 20             | 14.7            | 0              | 6.9             | 50             | 20              |
| 2B: On-site Filling in Upland Areas                           | 20             | 14.7            | 0              | 6.9             | 0              | 20              |
| 2C: Fine Site Grading                                         | 20             | 14.7            | 0              | 6.9             | 0              | 20              |
| 3A: Temporary Irrigation                                      | 20             | 14.7            | 0              | 6.9             | 0              | 20              |
| 3B: Soil Amendments                                           | 20             | 14.7            | 2              | 6.9             | 0              | 20              |
| 3C: Plantings for Riparian, Alkaline Meadow & Upland Habitats | 20             | 14.7            | 2              | 6.9             | 0              | 20              |
| 4: Raise viewing area and trail upgrades                      | 20             | 14.7            | 0              | 6.9             | 0              | 20              |
| 5: Pruning, Soil Amendments, and other Measures               | 20             | 14.7            | 0              | 6.9             | 0              | 20              |

Note: Worker and Vendor trips are number of one-way trips per day. Haul trips are total number of one-way trips associated with the phase

## Operational Assumptions

Project Operation and maintenance would occur in 2 phases, a short-term 120-day Maintenance phase or plant establishment period to begin directly after construction ends and a long term, ongoing maintenance activities that will occur subsequent to the plant establishment period.

### 120- day Plant Establish Period:

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| # of employees/day     | 5 (total up to X employees/X hour shifts X days/week operation)                |
| Employee Trips         | 12.5 one-way vehicle trips per per day (2.5 trips per employee)                |
| Water use              | 4.62 acre-feet per year<br>325,900 gallons/acre feet<br>1,505,658 gallons/year |
| Solid Waste Generation | 0.00 Tons per year Total waste to landfill                                     |

### Long-term Maintenance

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| # of employees/day | 5 (total up to X employees/X hour shifts X days/week operation)                           |
| Employee Trips     | 12.5 one-way vehicle trips per per day (2.5 trips per employee)<br>trips per<br>1.93 acre |

|           |      | Default  | % Default | Project |
|-----------|------|----------|-----------|---------|
| Trip Type | LDA  | 0.555986 | 0.682141  | 0.68214 |
|           | LDT1 | 0.043848 | 0.053797  | 0.05380 |
|           | LDT2 | 0.210359 | 0.25809   | 0.25809 |
|           | MCY  | 0.004867 | 0.005971  | 0.00597 |
|           |      | 0.81506  |           | 1       |

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Water use              | 4,562,600 gallons/year outdoor use (landscaping, max 3 years) |
| Solid Waste Generation | 0.00 Tons per year Total waste to landfill                    |

Note: the 120-day Plant Establishment Period is not modeled as it is not the worst case year.

**Big Canyon Phase 2A - Greenhouse Gas Appendix**  
**Emissions Summary**

## Big Canyon Phase 2

### Unmitigated CalEEMod GHG Output - Summary

CalEEMod

2016.3.2

Title:

Big Canyon Phase 2

Date: 5/21/2018

#### Unmitigated Construction Emissions - Max Annual

|                                           | MT CO <sub>2</sub> e |         |        |        |       |
|-------------------------------------------|----------------------|---------|--------|--------|-------|
|                                           | Onsite               | Hauling | Vendor | Worker | Total |
| 1A - Site Preparation                     | 10.94                | 0.00    | 0.00   | 1.18   | 12    |
| 1B - Clearing & Grubbing                  | 54.16                | 9.75    | 0.00   | 3.54   | 67    |
| 2A - Excavation and Grading               | 40.44                | 1.95    | 0.00   | 3.54   | 46    |
| 2B - On-Site Filling in Upland Areas      | 14.13                | 0.00    | 0.00   | 1.77   | 16    |
| 2C - Fine Site Grading                    | 20.05                | 0.00    | 0.00   | 1.77   | 22    |
| 3A - Temporary Irrigation                 | 3.59                 | 0.00    | 0.00   | 1.18   | 5     |
| 3B - Soil Amendments                      | 8.81                 | 0.00    | 0.29   | 1.18   | 10    |
| 3C - Planting for Riparian Habitat        | 23.26                | 0.00    | 0.74   | 2.95   | 27    |
| 4 - Raise viewing anre and Trail Upgrades | 16.23                | 0.00    | 0.00   | 1.77   | 18    |
| 5 - Pruning, Soil Amendments etc.         | 175.63               | 0.00    | 0.00   | 22.09  | 198   |
| <b>Project Total</b>                      |                      |         |        |        | 421   |
| <b>Amortized Construction</b>             |                      |         |        |        | 14    |

#### Unmitigated Operational Emissions - Max Annual

|                         | Unmitigated |
|-------------------------|-------------|
| Area                    | 0           |
| Energy                  | 0           |
| Mobile                  | 23          |
| Waste                   | 0           |
| Water                   | 10          |
| Total Operational:      | 33          |
| Amortized Construction: | 14          |
| Total Project:          | 47          |
| Threshold:              | 3,000       |
| Exceed Threshold:       | No          |

**Big Canyon Phase 2A - Greenhouse Gas Appendix**  
**CalEEMod Output**  
**Annual**

## Big Canyon Phase 2A - Orange County, Annual

**Big Canyon Phase 2A**  
**Orange County, Annual****1.0 Project Characteristics**

---

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 6.50 | Acre   | 6.50        | 283,140.00         | 0          |

**1.2 Other Project Characteristics**

|                            |                            |                            |       |                            |       |
|----------------------------|----------------------------|----------------------------|-------|----------------------------|-------|
| Urbanization               | Urban                      | Wind Speed (m/s)           | 2.2   | Precipitation Freq (Days)  | 30    |
| Climate Zone               | 8                          |                            |       | Operational Year           | 2020  |
| Utility Company            | Southern California Edison |                            |       |                            |       |
| CO2 Intensity<br>(lb/MWhr) | 411.63                     | CH4 Intensity<br>(lb/MWhr) | 0.029 | N2O Intensity<br>(lb/MWhr) | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Big Canyon Phase 2A - Orange County, Annual

Project Characteristics - See Assumptions

Land Use - See Assumptions

Construction Phase - See Assumptions

Off-road Equipment - See Assumptions

Off-road Equipment - See Assumptions

Off-road Equipment - See Assumptions

Off-road Equipment - See Assumptions

Off-road Equipment - See Assumptions

Off-road Equipment - See Assumptions

Off-road Equipment - See Assumptions

Off-road Equipment - See Assumptions

Off-road Equipment - See Assumptions

Off-road Equipment - See Assumptions

Off-road Equipment - See Assumptions

Off-road Equipment - See Assumptions

Grading - See Assumptions

Trips and VMT - See Assumptions

Vehicle Trips - See Assumptions

Fleet Mix - See Assumptions

Energy Use -

Landscape Equipment - See Assumptions - No long term landscaping

Water And Wastewater - See Assumptions

Solid Waste - See Assumptions

Construction Off-road Equipment Mitigation - See Assumptions

Off-road Equipment - See Assumptions

Consumer Products - No Consumer Products - See Assumptions

## Big Canyon Phase 2A - Orange County, Annual

| Table Name              | Column Name                  | Default Value | New Value      |
|-------------------------|------------------------------|---------------|----------------|
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed | 0             | 15             |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 9.00           |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 7.00           |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 2.00           |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00           |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 4.00           |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 8.00           |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Interim |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Interim |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Interim |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Interim |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Interim |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Interim |
| tblConstructionPhase    | NumDays                      | 20.00         | 5.00           |
| tblConstructionPhase    | NumDays                      | 230.00        | 12.00          |
| tblConstructionPhase    | NumDays                      | 20.00         | 12.00          |
| tblConstructionPhase    | NumDays                      | 10.00         | 36.00          |
| tblConstructionPhase    | NumDays                      | 20.00         | 36.00          |
| tblConstructionPhase    | NumDays                      | 20.00         | 18.00          |
| tblConstructionPhase    | NumDays                      | 20.00         | 18.00          |
| tblConstructionPhase    | NumDays                      | 230.00        | 12.00          |
| tblConstructionPhase    | NumDays                      | 230.00        | 30.00          |
| tblConstructionPhase    | NumDays                      | 20.00         | 18.00          |
| tblConstructionPhase    | NumDays                      | 230.00        | 42.00          |
| tblConstructionPhase    | NumDaysWeek                  | 5.00          | 6.00           |
| tblConstructionPhase    | NumDaysWeek                  | 5.00          | 6.00           |



## Big Canyon Phase 2A - Orange County, Annual

|                      |                |            |            |
|----------------------|----------------|------------|------------|
| tblConstructionPhase | NumDaysWeek    | 5.00       | 6.00       |
| tblConstructionPhase | NumDaysWeek    | 5.00       | 6.00       |
| tblConstructionPhase | NumDaysWeek    | 5.00       | 6.00       |
| tblConstructionPhase | NumDaysWeek    | 5.00       | 6.00       |
| tblConstructionPhase | NumDaysWeek    | 5.00       | 6.00       |
| tblConstructionPhase | NumDaysWeek    | 5.00       | 6.00       |
| tblConstructionPhase | NumDaysWeek    | 5.00       | 6.00       |
| tblConstructionPhase | NumDaysWeek    | 5.00       | 6.00       |
| tblConstructionPhase | NumDaysWeek    | 5.00       | 6.00       |
| tblConstructionPhase | NumDaysWeek    | 5.00       | 6.00       |
| tblConstructionPhase | PhaseEndDate   | 11/11/2019 | 10/8/2019  |
| tblConstructionPhase | PhaseEndDate   | 3/15/2021  | 10/19/2019 |
| tblConstructionPhase | PhaseEndDate   | 12/9/2019  | 10/14/2019 |
| tblConstructionPhase | PhaseEndDate   | 10/14/2019 | 11/12/2019 |
| tblConstructionPhase | PhaseEndDate   | 1/6/2020   | 10/24/2019 |
| tblConstructionPhase | PhaseEndDate   | 2/3/2020   | 11/13/2019 |
| tblConstructionPhase | PhaseEndDate   | 3/2/2020   | 10/24/2019 |
| tblConstructionPhase | PhaseEndDate   | 3/30/2020  | 10/25/2019 |
| tblConstructionPhase | PhaseEndDate   | 1/31/2022  | 10/19/2019 |
| tblConstructionPhase | PhaseEndDate   | 12/19/2022 | 11/11/2019 |
| tblConstructionPhase | PhaseEndDate   | 4/27/2020  | 10/29/2019 |
| tblConstructionPhase | PhaseEndDate   | 11/6/2023  | 7/3/2020   |
| tblConstructionPhase | PhaseStartDate | 10/15/2019 | 10/3/2019  |
| tblConstructionPhase | PhaseStartDate | 4/28/2020  | 10/6/2019  |
| tblConstructionPhase | PhaseStartDate | 11/12/2019 | 10/1/2019  |
| tblConstructionPhase | PhaseStartDate | 10/1/2019  | 10/2/2019  |
| tblConstructionPhase | PhaseStartDate | 12/10/2019 | 10/2/2019  |

## Big Canyon Phase 2A - Orange County, Annual

|                      |                      |             |                      |
|----------------------|----------------------|-------------|----------------------|
| tblConstructionPhase | PhaseStartDate       | 1/7/2020    | 10/3/2019            |
| tblConstructionPhase | PhaseStartDate       | 2/4/2020    | 10/4/2019            |
| tblConstructionPhase | PhaseStartDate       | 3/3/2020    | 10/5/2019            |
| tblConstructionPhase | PhaseStartDate       | 3/16/2021   | 10/7/2019            |
| tblConstructionPhase | PhaseStartDate       | 2/1/2022    | 10/8/2019            |
| tblConstructionPhase | PhaseStartDate       | 3/31/2020   | 10/9/2019            |
| tblConstructionPhase | PhaseStartDate       | 12/20/2022  | 10/10/2019           |
| tblFleetMix          | HHD                  | 0.02        | 0.00                 |
| tblFleetMix          | LDA                  | 0.56        | 0.68                 |
| tblFleetMix          | LDT1                 | 0.04        | 0.05                 |
| tblFleetMix          | LDT2                 | 0.21        | 0.26                 |
| tblFleetMix          | LHD1                 | 0.02        | 0.00                 |
| tblFleetMix          | LHD2                 | 5.7950e-003 | 0.00                 |
| tblFleetMix          | MCY                  | 4.8670e-003 | 5.9700e-003          |
| tblFleetMix          | MDV                  | 0.12        | 0.00                 |
| tblFleetMix          | MH                   | 1.0020e-003 | 0.00                 |
| tblFleetMix          | MHD                  | 0.03        | 0.00                 |
| tblFleetMix          | OBUS                 | 1.6770e-003 | 0.00                 |
| tblFleetMix          | SBUS                 | 5.8600e-004 | 0.00                 |
| tblFleetMix          | UBUS                 | 1.5860e-003 | 0.00                 |
| tblGrading           | AcresOfGrading       | 0.00        | 9.00                 |
| tblGrading           | AcresOfGrading       | 20.25       | 18.00                |
| tblGrading           | AcresOfGrading       | 0.00        | 9.00                 |
| tblGrading           | AcresOfGrading       | 10.13       | 9.00                 |
| tblGrading           | MaterialExported     | 0.00        | 7,500.00             |
| tblGrading           | MaterialExported     | 0.00        | 1,500.00             |
| tblOffRoadEquipment  | OffRoadEquipmentType |             | Rubber Tired Loaders |

## Big Canyon Phase 2A - Orange County, Annual

|                     |                            |      |                                   |
|---------------------|----------------------------|------|-----------------------------------|
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Off-Highway Trucks                |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Rubber Tired Loaders              |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Rubber Tired Loaders              |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Other Material Handling Equipment |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Off-Highway Trucks                |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Rubber Tired Loaders              |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Plate Compactors                  |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Off-Highway Trucks                |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Rubber Tired Loaders              |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Plate Compactors                  |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Off-Highway Trucks                |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Off-Highway Trucks                |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Rubber Tired Dozers               |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Rubber Tired Loaders              |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Off-Highway Trucks                |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Plate Compactors                  |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Off-Highway Trucks                |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Rubber Tired Loaders              |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Off-Highway Trucks                |
| tblOffRoadEquipment | OffRoadEquipmentType       |      | Off-Highway Trucks                |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00                              |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00                              |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00                              |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00                              |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00                              |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00                              |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00                              |

## Big Canyon Phase 2A - Orange County, Annual

|                     |                            |      |      |
|---------------------|----------------------------|------|------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |

## Big Canyon Phase 2A - Orange County, Annual

|                           |                            |        |        |
|---------------------------|----------------------------|--------|--------|
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00   | 1.00   |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00   | 1.00   |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00   | 0.00   |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00   | 1.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 7.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 7.00   | 9.00   |
| tblOffRoadEquipment       | UsageHours                 | 8.00   | 9.00   |
| tblProjectCharacteristics | CO2IntensityFactor         | 702.44 | 411.63 |
| tblSolidWaste             | SolidWasteGenerationRate   | 0.56   | 0.00   |

## Big Canyon Phase 2A - Orange County, Annual

|                 |                     |              |              |
|-----------------|---------------------|--------------|--------------|
| tblTripsAndVMT  | HaulingTripNumber   | 938.00       | 250.00       |
| tblTripsAndVMT  | HaulingTripNumber   | 188.00       | 50.00        |
| tblTripsAndVMT  | VendorTripNumber    | 46.00        | 0.00         |
| tblTripsAndVMT  | VendorTripNumber    | 46.00        | 2.00         |
| tblTripsAndVMT  | VendorTripNumber    | 46.00        | 0.00         |
| tblTripsAndVMT  | VendorTripNumber    | 46.00        | 2.00         |
| tblTripsAndVMT  | WorkerTripNumber    | 13.00        | 20.00        |
| tblTripsAndVMT  | WorkerTripNumber    | 8.00         | 20.00        |
| tblTripsAndVMT  | WorkerTripNumber    | 119.00       | 20.00        |
| tblTripsAndVMT  | WorkerTripNumber    | 119.00       | 20.00        |
| tblTripsAndVMT  | WorkerTripNumber    | 119.00       | 20.00        |
| tblTripsAndVMT  | WorkerTripNumber    | 119.00       | 20.00        |
| tblTripsAndVMT  | WorkerTripNumber    | 10.00        | 20.00        |
| tblTripsAndVMT  | WorkerTripNumber    | 13.00        | 20.00        |
| tblTripsAndVMT  | WorkerTripNumber    | 10.00        | 20.00        |
| tblTripsAndVMT  | WorkerTripNumber    | 10.00        | 20.00        |
| tblVehicleTrips | CC_TTP              | 48.00        | 0.00         |
| tblVehicleTrips | CNW_TTP             | 19.00        | 0.00         |
| tblVehicleTrips | CW_TTP              | 33.00        | 100.00       |
| tblVehicleTrips | DV_TP               | 28.00        | 0.00         |
| tblVehicleTrips | PB_TP               | 6.00         | 0.00         |
| tblVehicleTrips | PR_TP               | 66.00        | 100.00       |
| tblVehicleTrips | ST_TR               | 22.75        | 1.93         |
| tblVehicleTrips | SU_TR               | 16.74        | 1.93         |
| tblVehicleTrips | WD_TR               | 1.89         | 1.93         |
| tblWater        | OutdoorWaterUseRate | 7,744,628.77 | 4,562,600.00 |

## Big Canyon Phase 2A - Orange County, Annual

**2.0 Emissions Summary****2.1 Overall Construction****Unmitigated Construction**

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| 2019    | 0.2100  | 2.2260 | 1.1953 | 3.1400e-003 | 0.2797        | 0.0937       | 0.3733     | 0.1340         | 0.0862        | 0.2202      | 0.0000   | 283.2331  | 283.2331  | 0.0792 | 0.0000 | 285.2142 |
| 2020    | 0.0848  | 0.8383 | 0.5509 | 1.5300e-003 | 0.0175        | 0.0343       | 0.0517     | 4.6400e-003    | 0.0315        | 0.0362      | 0.0000   | 134.7191  | 134.7191  | 0.0390 | 0.0000 | 135.6949 |
| Maximum | 0.2100  | 2.2260 | 1.1953 | 3.1400e-003 | 0.2797        | 0.0937       | 0.3733     | 0.1340         | 0.0862        | 0.2202      | 0.0000   | 283.2331  | 283.2331  | 0.0792 | 0.0000 | 285.2142 |

**Mitigated Construction**

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| 2019    | 0.0599  | 0.8746 | 1.6714 | 3.1400e-003 | 0.1236        | 5.0700e-003  | 0.1286     | 0.0550         | 5.0400e-003   | 0.0600      | 0.0000   | 283.2328  | 283.2328  | 0.0792 | 0.0000 | 285.2139 |
| 2020    | 0.0302  | 0.4124 | 0.8369 | 1.5300e-003 | 0.0175        | 2.3500e-003  | 0.0198     | 4.6400e-003    | 2.3400e-003   | 6.9800e-003 | 0.0000   | 134.7190  | 134.7190  | 0.0390 | 0.0000 | 135.6947 |
| Maximum | 0.0599  | 0.8746 | 1.6714 | 3.1400e-003 | 0.1236        | 5.0700e-003  | 0.1286     | 0.0550         | 5.0400e-003   | 0.0600      | 0.0000   | 283.2328  | 283.2328  | 0.0792 | 0.0000 | 285.2139 |

## Big Canyon Phase 2A - Orange County, Annual

|                   | ROG   | NOx   | CO     | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|-------|-------|--------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 69.44 | 58.00 | -43.64 | 0.00 | 52.53         | 94.20        | 65.08      | 57.01          | 93.73         | 73.87       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date   | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|----------------------------------------------|--------------------------------------------|
| 1       | 10-1-2019  | 12-31-2019 | 2.4285                                       | 0.9325                                     |
| 2       | 1-1-2020   | 3-31-2020  | 0.4531                                       | 0.2174                                     |
| 3       | 4-1-2020   | 6-30-2020  | 0.4525                                       | 0.2168                                     |
| 4       | 7-1-2020   | 9-30-2020  | 0.0149                                       | 0.0071                                     |
|         |            | Highest    | 2.4285                                       | 0.9325                                     |

## 2.2 Overall Operational

Unmitigated Operational

|          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|----------|-------------|-------------|-------------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr     |             |             |             |               |              |            |                |               |             | MT/yr    |             |             |             |             |             |
| Area     | 2.6700e-003 | 0.0000      | 8.0000e-005 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.6000e-004 | 1.6000e-004 | 0.0000      | 0.0000      | 1.7000e-004 |
| Energy   | 0.0000      | 0.0000      | 0.0000      | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000      | 0.0000      | 0.0000      | 0.0000      | 0.0000      |
| Mobile   | 4.2400e-003 | 6.2400e-003 | 0.0748      | 2.6000e-004 | 0.0283        | 1.7000e-004  | 0.0284     | 7.5000e-003    | 1.6000e-004   | 7.6600e-003 | 0.0000   | 23.3937     | 23.3937     | 6.6000e-004 | 0.0000      | 23.4103     |
| Waste    |             |             |             |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000      | 0.0000      | 0.0000      | 0.0000      | 0.0000      |
| Water    |             |             |             |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 9.4645      | 9.4645      | 6.7000e-004 | 1.4000e-004 | 9.5223      |
| Total    | 6.9100e-003 | 6.2400e-003 | 0.0749      | 2.6000e-004 | 0.0283        | 1.7000e-004  | 0.0284     | 7.5000e-003    | 1.6000e-004   | 7.6600e-003 | 0.0000   | 32.8584     | 32.8584     | 1.3300e-003 | 1.4000e-004 | 32.9328     |



## Big Canyon Phase 2A - Orange County, Annual

**2.2 Overall Operational****Mitigated Operational**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr            |                    |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 2.6700e-003        | 0.0000             | 8.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 1.6000e-004    | 1.6000e-004    | 0.0000             | 0.0000             | 1.7000e-004    |
| Energy       | 0.0000             | 0.0000             | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 4.2400e-003        | 6.2400e-003        | 0.0748        | 2.6000e-004        | 0.0283        | 1.7000e-004        | 0.0284        | 7.5000e-003        | 1.6000e-004        | 7.6600e-003        | 0.0000        | 23.3937        | 23.3937        | 6.6000e-004        | 0.0000             | 23.4103        |
| Waste        |                    |                    |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Water        |                    |                    |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 9.4645         | 9.4645         | 6.7000e-004        | 1.4000e-004        | 9.5223         |
| <b>Total</b> | <b>6.9100e-003</b> | <b>6.2400e-003</b> | <b>0.0749</b> | <b>2.6000e-004</b> | <b>0.0283</b> | <b>1.7000e-004</b> | <b>0.0284</b> | <b>7.5000e-003</b> | <b>1.6000e-004</b> | <b>7.6600e-003</b> | <b>0.0000</b> | <b>32.8584</b> | <b>32.8584</b> | <b>1.3300e-003</b> | <b>1.4000e-004</b> | <b>32.9328</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio-CO2    | Total CO2   | CH4         | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

**3.0 Construction Detail****Construction Phase**

## Big Canyon Phase 2A - Orange County, Annual

| Phase Number | Phase Name                                | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-------------------------------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | 1A - Site Preparation                     | Grading               | 10/1/2019  | 10/14/2019 | 6             | 12       |                   |
| 2            | 1B - Clearing and Grubbing                | Site Preparation      | 10/2/2019  | 11/12/2019 | 6             | 36       |                   |
| 3            | 1B - Haul Trucks                          | Grading               | 10/2/2019  | 10/24/2019 | 6             | 20       |                   |
| 4            | 2A - Hauling                              | Grading               | 10/3/2019  | 10/8/2019  | 6             | 5        |                   |
| 5            | 2A - Excavation and Grading               | Grading               | 10/3/2019  | 11/13/2019 | 6             | 36       |                   |
| 6            | 2B - On-Site Filling in Upland Areas      | Grading               | 10/4/2019  | 10/24/2019 | 6             | 18       |                   |
| 7            | 2C - Fine Site Grading                    | Grading               | 10/5/2019  | 10/25/2019 | 6             | 18       |                   |
| 8            | 3A - Temporary Irrigation                 | Building Construction | 10/6/2019  | 10/19/2019 | 6             | 12       |                   |
| 9            | 3B - Soil Amendments                      | Building Construction | 10/7/2019  | 10/19/2019 | 6             | 12       |                   |
| 10           | 3C - Planting afor Riparian               | Building Construction | 10/8/2019  | 11/11/2019 | 6             | 30       |                   |
| 11           | 4 - Raise viewing area and trail uprgades | Grading               | 10/9/2019  | 10/29/2019 | 6             | 18       |                   |
| 12           | 5 - Pruning, Soil Amendments, etc         | Building Construction | 10/10/2019 | 7/3/2020   | 6             | 42       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name                        | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------------------|------------------------|--------|-------------|-------------|-------------|
| 3C - Planting afor Riparian       | Welders                | 0      | 8.00        | 46          | 0.45        |
| 5 - Pruning, Soil Amendments, etc | Welders                | 0      | 8.00        | 46          | 0.45        |
| 3B - Soil Amendments              | Welders                | 0      | 8.00        | 46          | 0.45        |
| 2C - Fine Site Grading            | Rubber Tired Loaders   | 1      | 9.00        | 203         | 0.36        |

## Big Canyon Phase 2A - Orange County, Annual

|                                           |                                   |   |      |     |      |
|-------------------------------------------|-----------------------------------|---|------|-----|------|
| 2C - Fine Site Grading                    | Off-Highway Trucks                | 1 | 4.00 | 402 | 0.38 |
| 1A - Site Preparation                     | Rubber Tired Loaders              | 1 | 9.00 | 203 | 0.36 |
| 1B - Clearing and Grubbing                | Rubber Tired Loaders              | 1 | 9.00 | 203 | 0.36 |
| 1B - Clearing and Grubbing                | Other Material Handling Equipment | 1 | 9.00 | 168 | 0.40 |
| 1B - Clearing and Grubbing                | Off-Highway Trucks                | 1 | 4.00 | 402 | 0.38 |
| 2A - Excavation and Grading               | Rubber Tired Loaders              | 1 | 9.00 | 203 | 0.36 |
| 2A - Excavation and Grading               | Plate Compactors                  | 1 | 5.00 | 8   | 0.43 |
| 2A - Excavation and Grading               | Off-Highway Trucks                | 1 | 4.00 | 402 | 0.38 |
| 2B - On-Site Filling in Upland Areas      | Rubber Tired Loaders              | 1 | 9.00 | 203 | 0.36 |
| 2B - On-Site Filling in Upland Areas      | Plate Compactors                  | 1 | 5.00 | 8   | 0.43 |
| 2B - On-Site Filling in Upland Areas      | Off-Highway Trucks                | 1 | 4.00 | 402 | 0.38 |
| 3A - Temporary Irrigation                 | Off-Highway Trucks                | 1 | 4.00 | 402 | 0.38 |
| 3B - Soil Amendments                      | Rubber Tired Dozers               | 1 | 9.00 | 247 | 0.40 |
| 2A - Hauling                              | Excavators                        | 0 | 8.00 | 158 | 0.38 |
| 3C - Planting afor Riparian               | Rubber Tired Loaders              | 1 | 9.00 | 203 | 0.36 |
| 3C - Planting afor Riparian               | Off-Highway Trucks                | 1 | 4.00 | 402 | 0.38 |
| 4 - Raise viewing area and trail uprgades | Plate Compactors                  | 1 | 5.00 | 8   | 0.43 |
| 4 - Raise viewing area and trail uprgades | Off-Highway Trucks                | 1 | 4.00 | 402 | 0.38 |
| 5 - Pruning, Soil Amendments, etc         | Rubber Tired Loaders              | 1 | 9.00 | 203 | 0.36 |
| 5 - Pruning, Soil Amendments, etc         | Off-Highway Trucks                | 1 | 4.00 | 402 | 0.38 |
| 3B - Soil Amendments                      | Off-Highway Trucks                | 1 | 4.00 | 402 | 0.38 |
| 2A - Hauling                              | Graders                           | 0 | 8.00 | 187 | 0.41 |
| 2A - Hauling                              | Rubber Tired Dozers               | 0 | 8.00 | 247 | 0.40 |
| 2A - Hauling                              | Tractors/Loaders/Backhoes         | 0 | 8.00 | 97  | 0.37 |
| 3C - Planting afor Riparian               | Cranes                            | 0 | 7.00 | 231 | 0.29 |
| 5 - Pruning, Soil Amendments, etc         | Cranes                            | 0 | 7.00 | 231 | 0.29 |
| 3B - Soil Amendments                      | Cranes                            | 0 | 7.00 | 231 | 0.29 |

## Big Canyon Phase 2A - Orange County, Annual

|                                           |                           |   |      |     |      |
|-------------------------------------------|---------------------------|---|------|-----|------|
| 1A - Site Preparation                     | Excavators                | 0 | 8.00 | 158 | 0.38 |
| 3A - Temporary Irrigation                 | Cranes                    | 0 | 7.00 | 231 | 0.29 |
| 3A - Temporary Irrigation                 | Forklifts                 | 0 | 8.00 | 89  | 0.20 |
| 3A - Temporary Irrigation                 | Generator Sets            | 0 | 8.00 | 84  | 0.74 |
| 4 - Raise viewing area and trail upgrades | Excavators                | 0 | 8.00 | 158 | 0.38 |
| 1B - Haul Trucks                          | Excavators                | 0 | 8.00 | 158 | 0.38 |
| 2A - Excavation and Grading               | Excavators                | 0 | 8.00 | 158 | 0.38 |
| 1A - Site Preparation                     | Rubber Tired Dozers       | 1 | 9.00 | 247 | 0.40 |
| 3A - Temporary Irrigation                 | Tractors/Loaders/Backhoes | 0 | 7.00 | 97  | 0.37 |
| 1A - Site Preparation                     | Graders                   | 0 | 8.00 | 187 | 0.41 |
| 1A - Site Preparation                     | Tractors/Loaders/Backhoes | 1 | 9.00 | 97  | 0.37 |
| 1B - Clearing and Grubbing                | Tractors/Loaders/Backhoes | 1 | 9.00 | 97  | 0.37 |
| 1B - Clearing and Grubbing                | Rubber Tired Dozers       | 1 | 9.00 | 247 | 0.40 |
| 3A - Temporary Irrigation                 | Welders                   | 0 | 8.00 | 46  | 0.45 |
| 2B - On-Site Filling in Upland Areas      | Excavators                | 0 | 8.00 | 158 | 0.38 |
| 2C - Fine Site Grading                    | Excavators                | 0 | 8.00 | 158 | 0.38 |
| 3C - Planting afor Riparian               | Forklifts                 | 0 | 8.00 | 89  | 0.20 |
| 5 - Pruning, Soil Amendments, etc         | Forklifts                 | 0 | 8.00 | 89  | 0.20 |
| 3B - Soil Amendments                      | Forklifts                 | 0 | 8.00 | 89  | 0.20 |
| 3C - Planting afor Riparian               | Generator Sets            | 0 | 8.00 | 84  | 0.74 |
| 5 - Pruning, Soil Amendments, etc         | Generator Sets            | 0 | 8.00 | 84  | 0.74 |
| 3B - Soil Amendments                      | Generator Sets            | 0 | 8.00 | 84  | 0.74 |
| 4 - Raise viewing area and trail upgrades | Graders                   | 0 | 8.00 | 187 | 0.41 |
| 1B - Haul Trucks                          | Graders                   | 0 | 8.00 | 187 | 0.41 |
| 2A - Excavation and Grading               | Graders                   | 1 | 9.00 | 187 | 0.41 |
| 2B - On-Site Filling in Upland Areas      | Graders                   | 0 | 8.00 | 187 | 0.41 |
| 2C - Fine Site Grading                    | Graders                   | 1 | 9.00 | 187 | 0.41 |

## Big Canyon Phase 2A - Orange County, Annual

|                                           |                           |   |      |     |      |
|-------------------------------------------|---------------------------|---|------|-----|------|
| 4 - Raise viewing area and trail upgrades | Rubber Tired Dozers       | 1 | 9.00 | 247 | 0.40 |
| 1B - Haul Trucks                          | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| 2A - Excavation and Grading               | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| 2B - On-Site Filling in Upland Areas      | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| 2C - Fine Site Grading                    | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| 3C - Planting afor Riparian               | Tractors/Loaders/Backhoes | 1 | 9.00 | 97  | 0.37 |
| 5 - Pruning, Soil Amendments, etc         | Tractors/Loaders/Backhoes | 1 | 9.00 | 97  | 0.37 |
| 3B - Soil Amendments                      | Tractors/Loaders/Backhoes | 0 | 7.00 | 97  | 0.37 |
| 4 - Raise viewing area and trail upgrades | Tractors/Loaders/Backhoes | 1 | 9.00 | 97  | 0.37 |
| 1B - Haul Trucks                          | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| 2A - Excavation and Grading               | Tractors/Loaders/Backhoes | 1 | 9.00 | 97  | 0.37 |
| 2B - On-Site Filling in Upland Areas      | Tractors/Loaders/Backhoes | 1 | 9.00 | 97  | 0.37 |
| 2C - Fine Site Grading                    | Tractors/Loaders/Backhoes | 1 | 9.00 | 97  | 0.37 |

**Trips and VMT**

## Big Canyon Phase 2A - Orange County, Annual

| Phase Name                                   | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|----------------------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| 3C - Planting afor<br>Pinerian               | 3                       | 20.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 1B - Clearing and<br>Grubbing                | 5                       | 20.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 1A - Site Preparation                        | 3                       | 20.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 3A - Temporary<br>Irrigation                 | 1                       | 20.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 5 - Pruning, Soil<br>Amendments, etc         | 3                       | 20.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 3B - Soil Amendments                         | 2                       | 20.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 4 - Raise viewing area<br>and trail upgrades | 4                       | 20.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 1B - Haul Trucks                             | 0                       | 0.00               | 0.00               | 250.00              | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 2A - Excavation and<br>Grading               | 5                       | 20.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 2A - Hauling                                 | 0                       | 0.00               | 0.00               | 50.00               | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 2B - On-Site Filling in<br>Inland Areas      | 4                       | 20.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 2C - Fine Site Grading                       | 4                       | 20.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## Big Canyon Phase 2A - Orange County, Annual

**3.2 1A - Site Preparation - 2019****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 0.0407        | 0.0000             | 0.0407        | 0.0223         | 0.0000             | 0.0223        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0119        | 0.1299        | 0.0558        | 1.2000e-004        |               | 6.1200e-003        | 6.1200e-003   |                | 5.6300e-003        | 5.6300e-003   | 0.0000        | 10.8495        | 10.8495        | 3.4300e-003        | 0.0000        | 10.9353        |
| <b>Total</b>  | <b>0.0119</b> | <b>0.1299</b> | <b>0.0558</b> | <b>1.2000e-004</b> | <b>0.0407</b> | <b>6.1200e-003</b> | <b>0.0468</b> | <b>0.0223</b>  | <b>5.6300e-003</b> | <b>0.0280</b> | <b>0.0000</b> | <b>10.8495</b> | <b>10.8495</b> | <b>3.4300e-003</b> | <b>0.0000</b> | <b>10.9353</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 5.0000e-004        | 3.7000e-004        | 4.0600e-003        | 1.0000e-005        | 1.3200e-003        | 1.0000e-005        | 1.3300e-003        | 3.5000e-004        | 1.0000e-005        | 3.6000e-004        | 0.0000        | 1.1779        | 1.1779        | 3.0000e-005        | 0.0000        | 1.1787        |
| <b>Total</b> | <b>5.0000e-004</b> | <b>3.7000e-004</b> | <b>4.0600e-003</b> | <b>1.0000e-005</b> | <b>1.3200e-003</b> | <b>1.0000e-005</b> | <b>1.3300e-003</b> | <b>3.5000e-004</b> | <b>1.0000e-005</b> | <b>3.6000e-004</b> | <b>0.0000</b> | <b>1.1779</b> | <b>1.1779</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>1.1787</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.2 1A - Site Preparation - 2019****Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |                    |               |               |                    | 0.0151        | 0.0000             | 0.0151        | 8.2800e-003        | 0.0000             | 8.2800e-003        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 2.1100e-003        | 0.0355        | 0.0690        | 1.2000e-004        |               | 2.0000e-004        | 2.0000e-004   |                    | 2.0000e-004        | 2.0000e-004        | 0.0000        | 10.8495        | 10.8495        | 3.4300e-003        | 0.0000        | 10.9353        |
| <b>Total</b>  | <b>2.1100e-003</b> | <b>0.0355</b> | <b>0.0690</b> | <b>1.2000e-004</b> | <b>0.0151</b> | <b>2.0000e-004</b> | <b>0.0153</b> | <b>8.2800e-003</b> | <b>2.0000e-004</b> | <b>8.4800e-003</b> | <b>0.0000</b> | <b>10.8495</b> | <b>10.8495</b> | <b>3.4300e-003</b> | <b>0.0000</b> | <b>10.9353</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 5.0000e-004        | 3.7000e-004        | 4.0600e-003        | 1.0000e-005        | 1.3200e-003        | 1.0000e-005        | 1.3300e-003        | 3.5000e-004        | 1.0000e-005        | 3.6000e-004        | 0.0000        | 1.1779        | 1.1779        | 3.0000e-005        | 0.0000        | 1.1787        |
| <b>Total</b> | <b>5.0000e-004</b> | <b>3.7000e-004</b> | <b>4.0600e-003</b> | <b>1.0000e-005</b> | <b>1.3200e-003</b> | <b>1.0000e-005</b> | <b>1.3300e-003</b> | <b>3.5000e-004</b> | <b>1.0000e-005</b> | <b>3.6000e-004</b> | <b>0.0000</b> | <b>1.1779</b> | <b>1.1779</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>1.1787</b> |



## Big Canyon Phase 2A - Orange County, Annual

**3.3 1B - Clearing and Grubbing - 2019****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.1220        | 0.0000        | 0.1220        | 0.0670         | 0.0000        | 0.0670        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0489        | 0.5209        | 0.2798        | 6.0000e-004        |               | 0.0240        | 0.0240        |                | 0.0221        | 0.0221        | 0.0000        | 53.7356        | 53.7356        | 0.0170        | 0.0000        | 54.1606        |
| <b>Total</b>  | <b>0.0489</b> | <b>0.5209</b> | <b>0.2798</b> | <b>6.0000e-004</b> | <b>0.1220</b> | <b>0.0240</b> | <b>0.1460</b> | <b>0.0670</b>  | <b>0.0221</b> | <b>0.0892</b> | <b>0.0000</b> | <b>53.7356</b> | <b>53.7356</b> | <b>0.0170</b> | <b>0.0000</b> | <b>54.1606</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.5000e-003        | 1.1000e-003        | 0.0122        | 4.0000e-005        | 3.9500e-003        | 3.0000e-005        | 3.9800e-003        | 1.0500e-003        | 2.0000e-005        | 1.0700e-003        | 0.0000        | 3.5338        | 3.5338        | 9.0000e-005        | 0.0000        | 3.5360        |
| <b>Total</b> | <b>1.5000e-003</b> | <b>1.1000e-003</b> | <b>0.0122</b> | <b>4.0000e-005</b> | <b>3.9500e-003</b> | <b>3.0000e-005</b> | <b>3.9800e-003</b> | <b>1.0500e-003</b> | <b>2.0000e-005</b> | <b>1.0700e-003</b> | <b>0.0000</b> | <b>3.5338</b> | <b>3.5338</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>3.5360</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.3 1B - Clearing and Grubbing - 2019****Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr            |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |                    |               |               |                    | 0.0452        | 0.0000             | 0.0452        | 0.0248         | 0.0000             | 0.0248        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 9.7000e-003        | 0.1895        | 0.3589        | 6.0000e-004        |               | 9.8000e-004        | 9.8000e-004   |                | 9.8000e-004        | 9.8000e-004   | 0.0000        | 53.7355        | 53.7355        | 0.0170        | 0.0000        | 54.1606        |
| <b>Total</b>  | <b>9.7000e-003</b> | <b>0.1895</b> | <b>0.3589</b> | <b>6.0000e-004</b> | <b>0.0452</b> | <b>9.8000e-004</b> | <b>0.0462</b> | <b>0.0248</b>  | <b>9.8000e-004</b> | <b>0.0258</b> | <b>0.0000</b> | <b>53.7355</b> | <b>53.7355</b> | <b>0.0170</b> | <b>0.0000</b> | <b>54.1606</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.5000e-003        | 1.1000e-003        | 0.0122        | 4.0000e-005        | 3.9500e-003        | 3.0000e-005        | 3.9800e-003        | 1.0500e-003        | 2.0000e-005        | 1.0700e-003        | 0.0000        | 3.5338        | 3.5338        | 9.0000e-005        | 0.0000        | 3.5360        |
| <b>Total</b> | <b>1.5000e-003</b> | <b>1.1000e-003</b> | <b>0.0122</b> | <b>4.0000e-005</b> | <b>3.9500e-003</b> | <b>3.0000e-005</b> | <b>3.9800e-003</b> | <b>1.0500e-003</b> | <b>2.0000e-005</b> | <b>1.0700e-003</b> | <b>0.0000</b> | <b>3.5338</b> | <b>3.5338</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>3.5360</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.4 1B - Haul Trucks - 2019****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category      | tons/yr       |               |               |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Fugitive Dust |               |               |               |               | 4.2000e-004        | 0.0000        | 4.2000e-004        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Off-Road      | 0.0000        | 0.0000        | 0.0000        | 0.0000        |                    | 0.0000        | 0.0000             |                    | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>4.2000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0500e-003        | 0.0383        | 9.1100e-003        | 1.0000e-004        | 2.1400e-003        | 1.4000e-004        | 2.2900e-003        | 5.9000e-004        | 1.4000e-004        | 7.2000e-004        | 0.0000        | 9.7205        | 9.7205        | 1.0300e-003        | 0.0000        | 9.7464        |
| Vendor       | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>1.0500e-003</b> | <b>0.0383</b> | <b>9.1100e-003</b> | <b>1.0000e-004</b> | <b>2.1400e-003</b> | <b>1.4000e-004</b> | <b>2.2900e-003</b> | <b>5.9000e-004</b> | <b>1.4000e-004</b> | <b>7.2000e-004</b> | <b>0.0000</b> | <b>9.7205</b> | <b>9.7205</b> | <b>1.0300e-003</b> | <b>0.0000</b> | <b>9.7464</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.4 1B - Haul Trucks - 2019****Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category      | tons/yr       |               |               |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Fugitive Dust |               |               |               |               | 1.6000e-004        | 0.0000        | 1.6000e-004        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Off-Road      | 0.0000        | 0.0000        | 0.0000        | 0.0000        |                    | 0.0000        | 0.0000             |                    | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.6000e-004</b> | <b>0.0000</b> | <b>1.6000e-004</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0500e-003        | 0.0383        | 9.1100e-003        | 1.0000e-004        | 2.1400e-003        | 1.4000e-004        | 2.2900e-003        | 5.9000e-004        | 1.4000e-004        | 7.2000e-004        | 0.0000        | 9.7205        | 9.7205        | 1.0300e-003        | 0.0000        | 9.7464        |
| Vendor       | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>1.0500e-003</b> | <b>0.0383</b> | <b>9.1100e-003</b> | <b>1.0000e-004</b> | <b>2.1400e-003</b> | <b>1.4000e-004</b> | <b>2.2900e-003</b> | <b>5.9000e-004</b> | <b>1.4000e-004</b> | <b>7.2000e-004</b> | <b>0.0000</b> | <b>9.7205</b> | <b>9.7205</b> | <b>1.0300e-003</b> | <b>0.0000</b> | <b>9.7464</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.5 2A - Hauling - 2019****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category      | tons/yr       |               |               |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Fugitive Dust |               |               |               |               | 8.0000e-005        | 0.0000        | 8.0000e-005        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Off-Road      | 0.0000        | 0.0000        | 0.0000        | 0.0000        |                    | 0.0000        | 0.0000             |                    | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 2.1000e-004        | 7.6500e-003        | 1.8200e-003        | 2.0000e-005        | 4.3000e-004        | 3.0000e-005        | 4.6000e-004        | 1.2000e-004        | 3.0000e-005        | 1.4000e-004        | 0.0000        | 1.9441        | 1.9441        | 2.1000e-004        | 0.0000        | 1.9493        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>2.1000e-004</b> | <b>7.6500e-003</b> | <b>1.8200e-003</b> | <b>2.0000e-005</b> | <b>4.3000e-004</b> | <b>3.0000e-005</b> | <b>4.6000e-004</b> | <b>1.2000e-004</b> | <b>3.0000e-005</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.9441</b> | <b>1.9441</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>1.9493</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.5 2A - Hauling - 2019****Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category      | tons/yr       |               |               |               |                    |               |                    |                |               |               | MT/yr         |               |               |               |               |               |
| Fugitive Dust |               |               |               |               | 3.0000e-005        | 0.0000        | 3.0000e-005        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Off-Road      | 0.0000        | 0.0000        | 0.0000        | 0.0000        |                    | 0.0000        | 0.0000             |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 2.1000e-004        | 7.6500e-003        | 1.8200e-003        | 2.0000e-005        | 4.3000e-004        | 3.0000e-005        | 4.6000e-004        | 1.2000e-004        | 3.0000e-005        | 1.4000e-004        | 0.0000        | 1.9441        | 1.9441        | 2.1000e-004        | 0.0000        | 1.9493        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>2.1000e-004</b> | <b>7.6500e-003</b> | <b>1.8200e-003</b> | <b>2.0000e-005</b> | <b>4.3000e-004</b> | <b>3.0000e-005</b> | <b>4.6000e-004</b> | <b>1.2000e-004</b> | <b>3.0000e-005</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.9441</b> | <b>1.9441</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>1.9493</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.6 2A - Excavation and Grading - 2019****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 9.5400e-003        | 0.0000        | 9.5400e-003   | 1.0300e-003        | 0.0000        | 1.0300e-003   | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0295        | 0.3458        | 0.1562        | 4.5000e-004        |                    | 0.0132        | 0.0132        |                    | 0.0121        | 0.0121        | 0.0000        | 40.1275        | 40.1275        | 0.0126        | 0.0000        | 40.4430        |
| <b>Total</b>  | <b>0.0295</b> | <b>0.3458</b> | <b>0.1562</b> | <b>4.5000e-004</b> | <b>9.5400e-003</b> | <b>0.0132</b> | <b>0.0227</b> | <b>1.0300e-003</b> | <b>0.0121</b> | <b>0.0132</b> | <b>0.0000</b> | <b>40.1275</b> | <b>40.1275</b> | <b>0.0126</b> | <b>0.0000</b> | <b>40.4430</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.5000e-003        | 1.1000e-003        | 0.0122        | 4.0000e-005        | 3.9500e-003        | 3.0000e-005        | 3.9800e-003        | 1.0500e-003        | 2.0000e-005        | 1.0700e-003        | 0.0000        | 3.5338        | 3.5338        | 9.0000e-005        | 0.0000        | 3.5360        |
| <b>Total</b> | <b>1.5000e-003</b> | <b>1.1000e-003</b> | <b>0.0122</b> | <b>4.0000e-005</b> | <b>3.9500e-003</b> | <b>3.0000e-005</b> | <b>3.9800e-003</b> | <b>1.0500e-003</b> | <b>2.0000e-005</b> | <b>1.0700e-003</b> | <b>0.0000</b> | <b>3.5338</b> | <b>3.5338</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>3.5360</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.6 2A - Excavation and Grading - 2019****Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |               |               |                |
| Fugitive Dust |                    |               |               |                    | 3.5400e-003        | 0.0000             | 3.5400e-003        | 3.8000e-004        | 0.0000             | 3.8000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 8.0800e-003        | 0.1305        | 0.2519        | 4.5000e-004        |                    | 8.3000e-004        | 8.3000e-004        |                    | 8.3000e-004        | 8.3000e-004        | 0.0000        | 40.1274        | 40.1274        | 0.0126        | 0.0000        | 40.4430        |
| <b>Total</b>  | <b>8.0800e-003</b> | <b>0.1305</b> | <b>0.2519</b> | <b>4.5000e-004</b> | <b>3.5400e-003</b> | <b>8.3000e-004</b> | <b>4.3700e-003</b> | <b>3.8000e-004</b> | <b>8.3000e-004</b> | <b>1.2100e-003</b> | <b>0.0000</b> | <b>40.1274</b> | <b>40.1274</b> | <b>0.0126</b> | <b>0.0000</b> | <b>40.4430</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.5000e-003        | 1.1000e-003        | 0.0122        | 4.0000e-005        | 3.9500e-003        | 3.0000e-005        | 3.9800e-003        | 1.0500e-003        | 2.0000e-005        | 1.0700e-003        | 0.0000        | 3.5338        | 3.5338        | 9.0000e-005        | 0.0000        | 3.5360        |
| <b>Total</b> | <b>1.5000e-003</b> | <b>1.1000e-003</b> | <b>0.0122</b> | <b>4.0000e-005</b> | <b>3.9500e-003</b> | <b>3.0000e-005</b> | <b>3.9800e-003</b> | <b>1.0500e-003</b> | <b>2.0000e-005</b> | <b>1.0700e-003</b> | <b>0.0000</b> | <b>3.5338</b> | <b>3.5338</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>3.5360</b> |



## Big Canyon Phase 2A - Orange County, Annual

**3.7 2B - On-Site Filling in Upland Areas - 2019****Unmitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |                    |               |               |                    | 4.7700e-003        | 0.0000             | 4.7700e-003        | 5.2000e-004        | 0.0000             | 5.2000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 9.8100e-003        | 0.1063        | 0.0595        | 1.6000e-004        |                    | 4.4500e-003        | 4.4500e-003        |                    | 4.1000e-003        | 4.1000e-003        | 0.0000        | 14.0233        | 14.0233        | 4.4000e-003        | 0.0000        | 14.1333        |
| <b>Total</b>  | <b>9.8100e-003</b> | <b>0.1063</b> | <b>0.0595</b> | <b>1.6000e-004</b> | <b>4.7700e-003</b> | <b>4.4500e-003</b> | <b>9.2200e-003</b> | <b>5.2000e-004</b> | <b>4.1000e-003</b> | <b>4.6200e-003</b> | <b>0.0000</b> | <b>14.0233</b> | <b>14.0233</b> | <b>4.4000e-003</b> | <b>0.0000</b> | <b>14.1333</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 7.5000e-004        | 5.5000e-004        | 6.0900e-003        | 2.0000e-005        | 1.9800e-003        | 1.0000e-005        | 1.9900e-003        | 5.2000e-004        | 1.0000e-005        | 5.4000e-004        | 0.0000        | 1.7669        | 1.7669        | 4.0000e-005        | 0.0000        | 1.7680        |
| <b>Total</b> | <b>7.5000e-004</b> | <b>5.5000e-004</b> | <b>6.0900e-003</b> | <b>2.0000e-005</b> | <b>1.9800e-003</b> | <b>1.0000e-005</b> | <b>1.9900e-003</b> | <b>5.2000e-004</b> | <b>1.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>1.7669</b> | <b>1.7669</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.7680</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.7 2B - On-Site Filling in Upland Areas - 2019****Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |                    |               |               |                    | 1.7700e-003        | 0.0000             | 1.7700e-003        | 1.9000e-004        | 0.0000             | 1.9000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 2.9400e-003        | 0.0476        | 0.0904        | 1.6000e-004        |                    | 3.1000e-004        | 3.1000e-004        |                    | 3.1000e-004        | 3.1000e-004        | 0.0000        | 14.0233        | 14.0233        | 4.4000e-003        | 0.0000        | 14.1332        |
| <b>Total</b>  | <b>2.9400e-003</b> | <b>0.0476</b> | <b>0.0904</b> | <b>1.6000e-004</b> | <b>1.7700e-003</b> | <b>3.1000e-004</b> | <b>2.0800e-003</b> | <b>1.9000e-004</b> | <b>3.1000e-004</b> | <b>5.0000e-004</b> | <b>0.0000</b> | <b>14.0233</b> | <b>14.0233</b> | <b>4.4000e-003</b> | <b>0.0000</b> | <b>14.1332</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 7.5000e-004        | 5.5000e-004        | 6.0900e-003        | 2.0000e-005        | 1.9800e-003        | 1.0000e-005        | 1.9900e-003        | 5.2000e-004        | 1.0000e-005        | 5.4000e-004        | 0.0000        | 1.7669        | 1.7669        | 4.0000e-005        | 0.0000        | 1.7680        |
| <b>Total</b> | <b>7.5000e-004</b> | <b>5.5000e-004</b> | <b>6.0900e-003</b> | <b>2.0000e-005</b> | <b>1.9800e-003</b> | <b>1.0000e-005</b> | <b>1.9900e-003</b> | <b>5.2000e-004</b> | <b>1.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>1.7669</b> | <b>1.7669</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.7680</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.8 2C - Fine Site Grading - 2019****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |                    |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 4.7700e-003        | 0.0000             | 4.7700e-003   | 5.2000e-004        | 0.0000             | 5.2000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0145        | 0.1715        | 0.0769        | 2.2000e-004        |                    | 6.5300e-003        | 6.5300e-003   |                    | 6.0100e-003        | 6.0100e-003        | 0.0000        | 19.8878        | 19.8878        | 6.2900e-003        | 0.0000        | 20.0451        |
| <b>Total</b>  | <b>0.0145</b> | <b>0.1715</b> | <b>0.0769</b> | <b>2.2000e-004</b> | <b>4.7700e-003</b> | <b>6.5300e-003</b> | <b>0.0113</b> | <b>5.2000e-004</b> | <b>6.0100e-003</b> | <b>6.5300e-003</b> | <b>0.0000</b> | <b>19.8878</b> | <b>19.8878</b> | <b>6.2900e-003</b> | <b>0.0000</b> | <b>20.0451</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 7.5000e-004        | 5.5000e-004        | 6.0900e-003        | 2.0000e-005        | 1.9800e-003        | 1.0000e-005        | 1.9900e-003        | 5.2000e-004        | 1.0000e-005        | 5.4000e-004        | 0.0000        | 1.7669        | 1.7669        | 4.0000e-005        | 0.0000        | 1.7680        |
| <b>Total</b> | <b>7.5000e-004</b> | <b>5.5000e-004</b> | <b>6.0900e-003</b> | <b>2.0000e-005</b> | <b>1.9800e-003</b> | <b>1.0000e-005</b> | <b>1.9900e-003</b> | <b>5.2000e-004</b> | <b>1.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>1.7669</b> | <b>1.7669</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.7680</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.8 2C - Fine Site Grading - 2019****Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |                    |               |               |                    | 1.7700e-003        | 0.0000             | 1.7700e-003        | 1.9000e-004        | 0.0000             | 1.9000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 3.8100e-003        | 0.0639        | 0.1248        | 2.2000e-004        |                    | 3.6000e-004        | 3.6000e-004        |                    | 3.6000e-004        | 3.6000e-004        | 0.0000        | 19.8878        | 19.8878        | 6.2900e-003        | 0.0000        | 20.0451        |
| <b>Total</b>  | <b>3.8100e-003</b> | <b>0.0639</b> | <b>0.1248</b> | <b>2.2000e-004</b> | <b>1.7700e-003</b> | <b>3.6000e-004</b> | <b>2.1300e-003</b> | <b>1.9000e-004</b> | <b>3.6000e-004</b> | <b>5.5000e-004</b> | <b>0.0000</b> | <b>19.8878</b> | <b>19.8878</b> | <b>6.2900e-003</b> | <b>0.0000</b> | <b>20.0451</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 7.5000e-004        | 5.5000e-004        | 6.0900e-003        | 2.0000e-005        | 1.9800e-003        | 1.0000e-005        | 1.9900e-003        | 5.2000e-004        | 1.0000e-005        | 5.4000e-004        | 0.0000        | 1.7669        | 1.7669        | 4.0000e-005        | 0.0000        | 1.7680        |
| <b>Total</b> | <b>7.5000e-004</b> | <b>5.5000e-004</b> | <b>6.0900e-003</b> | <b>2.0000e-005</b> | <b>1.9800e-003</b> | <b>1.0000e-005</b> | <b>1.9900e-003</b> | <b>5.2000e-004</b> | <b>1.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>1.7669</b> | <b>1.7669</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.7680</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.9 3A - Temporary Irrigation - 2019****Unmitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 2.1300e-003        | 0.0216        | 0.0120        | 4.0000e-005        |               | 7.8000e-004        | 7.8000e-004        |                | 7.2000e-004        | 7.2000e-004        | 0.0000        | 3.5591        | 3.5591        | 1.1300e-003        | 0.0000        | 3.5872        |
| <b>Total</b> | <b>2.1300e-003</b> | <b>0.0216</b> | <b>0.0120</b> | <b>4.0000e-005</b> |               | <b>7.8000e-004</b> | <b>7.8000e-004</b> |                | <b>7.2000e-004</b> | <b>7.2000e-004</b> | <b>0.0000</b> | <b>3.5591</b> | <b>3.5591</b> | <b>1.1300e-003</b> | <b>0.0000</b> | <b>3.5872</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 5.0000e-004        | 3.7000e-004        | 4.0600e-003        | 1.0000e-005        | 1.3200e-003        | 1.0000e-005        | 1.3300e-003        | 3.5000e-004        | 1.0000e-005        | 3.6000e-004        | 0.0000        | 1.1779        | 1.1779        | 3.0000e-005        | 0.0000        | 1.1787        |
| <b>Total</b> | <b>5.0000e-004</b> | <b>3.7000e-004</b> | <b>4.0600e-003</b> | <b>1.0000e-005</b> | <b>1.3200e-003</b> | <b>1.0000e-005</b> | <b>1.3300e-003</b> | <b>3.5000e-004</b> | <b>1.0000e-005</b> | <b>3.6000e-004</b> | <b>0.0000</b> | <b>1.1779</b> | <b>1.1779</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>1.1787</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.9 3A - Temporary Irrigation - 2019****Mitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 6.5000e-004        | 0.0104        | 0.0210        | 4.0000e-005        |               | 6.0000e-005        | 6.0000e-005        |                | 6.0000e-005        | 6.0000e-005        | 0.0000        | 3.5591        | 3.5591        | 1.1300e-003        | 0.0000        | 3.5872        |
| <b>Total</b> | <b>6.5000e-004</b> | <b>0.0104</b> | <b>0.0210</b> | <b>4.0000e-005</b> |               | <b>6.0000e-005</b> | <b>6.0000e-005</b> |                | <b>6.0000e-005</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>3.5591</b> | <b>3.5591</b> | <b>1.1300e-003</b> | <b>0.0000</b> | <b>3.5872</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 5.0000e-004        | 3.7000e-004        | 4.0600e-003        | 1.0000e-005        | 1.3200e-003        | 1.0000e-005        | 1.3300e-003        | 3.5000e-004        | 1.0000e-005        | 3.6000e-004        | 0.0000        | 1.1779        | 1.1779        | 3.0000e-005        | 0.0000        | 1.1787        |
| <b>Total</b> | <b>5.0000e-004</b> | <b>3.7000e-004</b> | <b>4.0600e-003</b> | <b>1.0000e-005</b> | <b>1.3200e-003</b> | <b>1.0000e-005</b> | <b>1.3300e-003</b> | <b>3.5000e-004</b> | <b>1.0000e-005</b> | <b>3.6000e-004</b> | <b>0.0000</b> | <b>1.1779</b> | <b>1.1779</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>1.1787</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.10 3B - Soil Amendments - 2019****Unmitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 9.7900e-003        | 0.1031        | 0.0409        | 1.0000e-004        |               | 4.7600e-003        | 4.7600e-003        |                | 4.3800e-003        | 4.3800e-003        | 0.0000        | 8.7360        | 8.7360        | 2.7600e-003        | 0.0000        | 8.8051        |
| <b>Total</b> | <b>9.7900e-003</b> | <b>0.1031</b> | <b>0.0409</b> | <b>1.0000e-004</b> |               | <b>4.7600e-003</b> | <b>4.7600e-003</b> |                | <b>4.3800e-003</b> | <b>4.3800e-003</b> | <b>0.0000</b> | <b>8.7360</b> | <b>8.7360</b> | <b>2.7600e-003</b> | <b>0.0000</b> | <b>8.8051</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 5.0000e-005        | 1.3900e-003        | 3.8000e-004        | 0.0000             | 8.0000e-005        | 1.0000e-005        | 8.0000e-005        | 2.0000e-005        | 1.0000e-005        | 3.0000e-005        | 0.0000        | 0.2941        | 0.2941        | 3.0000e-005        | 0.0000        | 0.2948        |
| Worker       | 5.0000e-004        | 3.7000e-004        | 4.0600e-003        | 1.0000e-005        | 1.3200e-003        | 1.0000e-005        | 1.3300e-003        | 3.5000e-004        | 1.0000e-005        | 3.6000e-004        | 0.0000        | 1.1779        | 1.1779        | 3.0000e-005        | 0.0000        | 1.1787        |
| <b>Total</b> | <b>5.5000e-004</b> | <b>1.7600e-003</b> | <b>4.4400e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>2.0000e-005</b> | <b>1.4100e-003</b> | <b>3.7000e-004</b> | <b>2.0000e-005</b> | <b>3.9000e-004</b> | <b>0.0000</b> | <b>1.4721</b> | <b>1.4721</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>1.4735</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.10 3B - Soil Amendments - 2019****Mitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 1.5900e-003        | 0.0256        | 0.0516        | 1.0000e-004        |               | 1.6000e-004        | 1.6000e-004        |                | 1.6000e-004        | 1.6000e-004        | 0.0000        | 8.7360        | 8.7360        | 2.7600e-003        | 0.0000        | 8.8051        |
| <b>Total</b> | <b>1.5900e-003</b> | <b>0.0256</b> | <b>0.0516</b> | <b>1.0000e-004</b> |               | <b>1.6000e-004</b> | <b>1.6000e-004</b> |                | <b>1.6000e-004</b> | <b>1.6000e-004</b> | <b>0.0000</b> | <b>8.7360</b> | <b>8.7360</b> | <b>2.7600e-003</b> | <b>0.0000</b> | <b>8.8051</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 5.0000e-005        | 1.3900e-003        | 3.8000e-004        | 0.0000             | 8.0000e-005        | 1.0000e-005        | 8.0000e-005        | 2.0000e-005        | 1.0000e-005        | 3.0000e-005        | 0.0000        | 0.2941        | 0.2941        | 3.0000e-005        | 0.0000        | 0.2948        |
| Worker       | 5.0000e-004        | 3.7000e-004        | 4.0600e-003        | 1.0000e-005        | 1.3200e-003        | 1.0000e-005        | 1.3300e-003        | 3.5000e-004        | 1.0000e-005        | 3.6000e-004        | 0.0000        | 1.1779        | 1.1779        | 3.0000e-005        | 0.0000        | 1.1787        |
| <b>Total</b> | <b>5.5000e-004</b> | <b>1.7600e-003</b> | <b>4.4400e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>2.0000e-005</b> | <b>1.4100e-003</b> | <b>3.7000e-004</b> | <b>2.0000e-005</b> | <b>3.9000e-004</b> | <b>0.0000</b> | <b>1.4721</b> | <b>1.4721</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>1.4735</b> |



## Big Canyon Phase 2A - Orange County, Annual

**3.11 3C - Planting afor Riparian - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0160        | 0.1748        | 0.0972        | 2.6000e-004        |               | 7.3200e-003        | 7.3200e-003        |                | 6.7400e-003        | 6.7400e-003        | 0.0000        | 23.0789        | 23.0789        | 7.3000e-003        | 0.0000        | 23.2614        |
| <b>Total</b> | <b>0.0160</b> | <b>0.1748</b> | <b>0.0972</b> | <b>2.6000e-004</b> |               | <b>7.3200e-003</b> | <b>7.3200e-003</b> |                | <b>6.7400e-003</b> | <b>6.7400e-003</b> | <b>0.0000</b> | <b>23.0789</b> | <b>23.0789</b> | <b>7.3000e-003</b> | <b>0.0000</b> | <b>23.2614</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 1.1000e-004        | 3.4700e-003        | 9.4000e-004   | 1.0000e-005        | 1.9000e-004        | 2.0000e-005        | 2.1000e-004        | 5.0000e-005        | 2.0000e-005        | 8.0000e-005        | 0.0000        | 0.7353        | 0.7353        | 6.0000e-005        | 0.0000        | 0.7369        |
| Worker       | 1.2500e-003        | 9.1000e-004        | 0.0102        | 3.0000e-005        | 3.2900e-003        | 2.0000e-005        | 3.3200e-003        | 8.7000e-004        | 2.0000e-005        | 9.0000e-004        | 0.0000        | 2.9449        | 2.9449        | 7.0000e-005        | 0.0000        | 2.9467        |
| <b>Total</b> | <b>1.3600e-003</b> | <b>4.3800e-003</b> | <b>0.0111</b> | <b>4.0000e-005</b> | <b>3.4800e-003</b> | <b>4.0000e-005</b> | <b>3.5300e-003</b> | <b>9.2000e-004</b> | <b>4.0000e-005</b> | <b>9.8000e-004</b> | <b>0.0000</b> | <b>3.6802</b> | <b>3.6802</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>3.6836</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.11 3C - Planting afor Riparian - 2019****Mitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 4.5300e-003        | 0.0770        | 0.1486        | 2.6000e-004        |               | 4.2000e-004        | 4.2000e-004        |                | 4.2000e-004        | 4.2000e-004        | 0.0000        | 23.0788        | 23.0788        | 7.3000e-003        | 0.0000        | 23.2614        |
| <b>Total</b> | <b>4.5300e-003</b> | <b>0.0770</b> | <b>0.1486</b> | <b>2.6000e-004</b> |               | <b>4.2000e-004</b> | <b>4.2000e-004</b> |                | <b>4.2000e-004</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>23.0788</b> | <b>23.0788</b> | <b>7.3000e-003</b> | <b>0.0000</b> | <b>23.2614</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 1.1000e-004        | 3.4700e-003        | 9.4000e-004   | 1.0000e-005        | 1.9000e-004        | 2.0000e-005        | 2.1000e-004        | 5.0000e-005        | 2.0000e-005        | 8.0000e-005        | 0.0000        | 0.7353        | 0.7353        | 6.0000e-005        | 0.0000        | 0.7369        |
| Worker       | 1.2500e-003        | 9.1000e-004        | 0.0102        | 3.0000e-005        | 3.2900e-003        | 2.0000e-005        | 3.3200e-003        | 8.7000e-004        | 2.0000e-005        | 9.0000e-004        | 0.0000        | 2.9449        | 2.9449        | 7.0000e-005        | 0.0000        | 2.9467        |
| <b>Total</b> | <b>1.3600e-003</b> | <b>4.3800e-003</b> | <b>0.0111</b> | <b>4.0000e-005</b> | <b>3.4800e-003</b> | <b>4.0000e-005</b> | <b>3.5300e-003</b> | <b>9.2000e-004</b> | <b>4.0000e-005</b> | <b>9.8000e-004</b> | <b>0.0000</b> | <b>3.6802</b> | <b>3.6802</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>3.6836</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.12 4 - Raise viewing area and trail upgrades - 2019****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 0.0658        | 0.0000             | 0.0658        | 0.0340         | 0.0000             | 0.0340        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0173        | 0.1797        | 0.0859        | 1.8000e-004        |               | 8.7700e-003        | 8.7700e-003   |                | 8.0700e-003        | 8.0700e-003   | 0.0000        | 16.1049        | 16.1049        | 5.0600e-003        | 0.0000        | 16.2313        |
| <b>Total</b>  | <b>0.0173</b> | <b>0.1797</b> | <b>0.0859</b> | <b>1.8000e-004</b> | <b>0.0658</b> | <b>8.7700e-003</b> | <b>0.0745</b> | <b>0.0340</b>  | <b>8.0700e-003</b> | <b>0.0421</b> | <b>0.0000</b> | <b>16.1049</b> | <b>16.1049</b> | <b>5.0600e-003</b> | <b>0.0000</b> | <b>16.2313</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 7.5000e-004        | 5.5000e-004        | 6.0900e-003        | 2.0000e-005        | 1.9800e-003        | 1.0000e-005        | 1.9900e-003        | 5.2000e-004        | 1.0000e-005        | 5.4000e-004        | 0.0000        | 1.7669        | 1.7669        | 4.0000e-005        | 0.0000        | 1.7680        |
| <b>Total</b> | <b>7.5000e-004</b> | <b>5.5000e-004</b> | <b>6.0900e-003</b> | <b>2.0000e-005</b> | <b>1.9800e-003</b> | <b>1.0000e-005</b> | <b>1.9900e-003</b> | <b>5.2000e-004</b> | <b>1.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>1.7669</b> | <b>1.7669</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.7680</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.12 4 - Raise viewing area and trail upgrades - 2019****Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr            |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |                    |               |               |                    | 0.0244        | 0.0000             | 0.0244        | 0.0126         | 0.0000             | 0.0126        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 3.3100e-003        | 0.0535        | 0.1023        | 1.8000e-004        |               | 3.4000e-004        | 3.4000e-004   |                | 3.4000e-004        | 3.4000e-004   | 0.0000        | 16.1048        | 16.1048        | 5.0600e-003        | 0.0000        | 16.2313        |
| <b>Total</b>  | <b>3.3100e-003</b> | <b>0.0535</b> | <b>0.1023</b> | <b>1.8000e-004</b> | <b>0.0244</b> | <b>3.4000e-004</b> | <b>0.0247</b> | <b>0.0126</b>  | <b>3.4000e-004</b> | <b>0.0130</b> | <b>0.0000</b> | <b>16.1048</b> | <b>16.1048</b> | <b>5.0600e-003</b> | <b>0.0000</b> | <b>16.2313</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 7.5000e-004        | 5.5000e-004        | 6.0900e-003        | 2.0000e-005        | 1.9800e-003        | 1.0000e-005        | 1.9900e-003        | 5.2000e-004        | 1.0000e-005        | 5.4000e-004        | 0.0000        | 1.7669        | 1.7669        | 4.0000e-005        | 0.0000        | 1.7680        |
| <b>Total</b> | <b>7.5000e-004</b> | <b>5.5000e-004</b> | <b>6.0900e-003</b> | <b>2.0000e-005</b> | <b>1.9800e-003</b> | <b>1.0000e-005</b> | <b>1.9900e-003</b> | <b>5.2000e-004</b> | <b>1.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>1.7669</b> | <b>1.7669</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.7680</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.13 5 - Pruning, Soil Amendments, etc - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0378        | 0.4137        | 0.2300        | 6.1000e-004        |               | 0.0173        | 0.0173        |                | 0.0160        | 0.0160        | 0.0000        | 54.6200        | 54.6200        | 0.0173        | 0.0000        | 55.0520        |
| <b>Total</b> | <b>0.0378</b> | <b>0.4137</b> | <b>0.2300</b> | <b>6.1000e-004</b> |               | <b>0.0173</b> | <b>0.0173</b> |                | <b>0.0160</b> | <b>0.0160</b> | <b>0.0000</b> | <b>54.6200</b> | <b>54.6200</b> | <b>0.0173</b> | <b>0.0000</b> | <b>55.0520</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.9700e-003        | 2.1600e-003        | 0.0240        | 8.0000e-005        | 7.7900e-003        | 5.0000e-005        | 7.8500e-003        | 2.0700e-003        | 5.0000e-005        | 2.1200e-003        | 0.0000        | 6.9695        | 6.9695        | 1.7000e-004        | 0.0000        | 6.9738        |
| <b>Total</b> | <b>2.9700e-003</b> | <b>2.1600e-003</b> | <b>0.0240</b> | <b>8.0000e-005</b> | <b>7.7900e-003</b> | <b>5.0000e-005</b> | <b>7.8500e-003</b> | <b>2.0700e-003</b> | <b>5.0000e-005</b> | <b>2.1200e-003</b> | <b>0.0000</b> | <b>6.9695</b> | <b>6.9695</b> | <b>1.7000e-004</b> | <b>0.0000</b> | <b>6.9738</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.13 5 - Pruning, Soil Amendments, etc - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0107        | 0.1822        | 0.3517        | 6.1000e-004        |               | 1.0000e-003        | 1.0000e-003        |                | 1.0000e-003        | 1.0000e-003        | 0.0000        | 54.6199        | 54.6199        | 0.0173        | 0.0000        | 55.0520        |
| <b>Total</b> | <b>0.0107</b> | <b>0.1822</b> | <b>0.3517</b> | <b>6.1000e-004</b> |               | <b>1.0000e-003</b> | <b>1.0000e-003</b> |                | <b>1.0000e-003</b> | <b>1.0000e-003</b> | <b>0.0000</b> | <b>54.6199</b> | <b>54.6199</b> | <b>0.0173</b> | <b>0.0000</b> | <b>55.0520</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.9700e-003        | 2.1600e-003        | 0.0240        | 8.0000e-005        | 7.7900e-003        | 5.0000e-005        | 7.8500e-003        | 2.0700e-003        | 5.0000e-005        | 2.1200e-003        | 0.0000        | 6.9695        | 6.9695        | 1.7000e-004        | 0.0000        | 6.9738        |
| <b>Total</b> | <b>2.9700e-003</b> | <b>2.1600e-003</b> | <b>0.0240</b> | <b>8.0000e-005</b> | <b>7.7900e-003</b> | <b>5.0000e-005</b> | <b>7.8500e-003</b> | <b>2.0700e-003</b> | <b>5.0000e-005</b> | <b>2.1200e-003</b> | <b>0.0000</b> | <b>6.9695</b> | <b>6.9695</b> | <b>1.7000e-004</b> | <b>0.0000</b> | <b>6.9738</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.13 5 - Pruning, Soil Amendments, etc - 2020****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.0786        | 0.8340        | 0.5016        | 1.3600e-003        |               | 0.0342        | 0.0342        |                | 0.0314        | 0.0314        | 0.0000        | 119.6116        | 119.6116        | 0.0387        | 0.0000        | 120.5787        |
| <b>Total</b> | <b>0.0786</b> | <b>0.8340</b> | <b>0.5016</b> | <b>1.3600e-003</b> |               | <b>0.0342</b> | <b>0.0342</b> |                | <b>0.0314</b> | <b>0.0314</b> | <b>0.0000</b> | <b>119.6116</b> | <b>119.6116</b> | <b>0.0387</b> | <b>0.0000</b> | <b>120.5787</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |                    |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 6.2000e-003        | 4.3400e-003        | 0.0493        | 1.7000e-004        | 0.0175        | 1.2000e-004        | 0.0176        | 4.6400e-003        | 1.1000e-004        | 4.7400e-003        | 0.0000        | 15.1076        | 15.1076        | 3.4000e-004        | 0.0000        | 15.1162        |
| <b>Total</b> | <b>6.2000e-003</b> | <b>4.3400e-003</b> | <b>0.0493</b> | <b>1.7000e-004</b> | <b>0.0175</b> | <b>1.2000e-004</b> | <b>0.0176</b> | <b>4.6400e-003</b> | <b>1.1000e-004</b> | <b>4.7400e-003</b> | <b>0.0000</b> | <b>15.1076</b> | <b>15.1076</b> | <b>3.4000e-004</b> | <b>0.0000</b> | <b>15.1162</b> |

## Big Canyon Phase 2A - Orange County, Annual

**3.13 5 - Pruning, Soil Amendments, etc - 2020****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.0240        | 0.4080        | 0.7876        | 1.3600e-003        |               | 2.2300e-003        | 2.2300e-003        |                | 2.2300e-003        | 2.2300e-003        | 0.0000        | 119.6114        | 119.6114        | 0.0387        | 0.0000        | 120.5786        |
| <b>Total</b> | <b>0.0240</b> | <b>0.4080</b> | <b>0.7876</b> | <b>1.3600e-003</b> |               | <b>2.2300e-003</b> | <b>2.2300e-003</b> |                | <b>2.2300e-003</b> | <b>2.2300e-003</b> | <b>0.0000</b> | <b>119.6114</b> | <b>119.6114</b> | <b>0.0387</b> | <b>0.0000</b> | <b>120.5786</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |                    |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 6.2000e-003        | 4.3400e-003        | 0.0493        | 1.7000e-004        | 0.0175        | 1.2000e-004        | 0.0176        | 4.6400e-003        | 1.1000e-004        | 4.7400e-003        | 0.0000        | 15.1076        | 15.1076        | 3.4000e-004        | 0.0000        | 15.1162        |
| <b>Total</b> | <b>6.2000e-003</b> | <b>4.3400e-003</b> | <b>0.0493</b> | <b>1.7000e-004</b> | <b>0.0175</b> | <b>1.2000e-004</b> | <b>0.0176</b> | <b>4.6400e-003</b> | <b>1.1000e-004</b> | <b>4.7400e-003</b> | <b>0.0000</b> | <b>15.1076</b> | <b>15.1076</b> | <b>3.4000e-004</b> | <b>0.0000</b> | <b>15.1162</b> |

**4.0 Operational Detail - Mobile**



## Big Canyon Phase 2A - Orange County, Annual

## 4.1 Mitigation Measures Mobile

|             | ROG         | NOx         | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|-------------|-------------|-------------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category    | tons/yr     |             |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Mitigated   | 4.2400e-003 | 6.2400e-003 | 0.0748 | 2.6000e-004 | 0.0283        | 1.7000e-004  | 0.0284     | 7.5000e-003    | 1.6000e-004   | 7.6600e-003 | 0.0000   | 23.3937   | 23.3937   | 6.6000e-004 | 0.0000 | 23.4103 |
| Unmitigated | 4.2400e-003 | 6.2400e-003 | 0.0748 | 2.6000e-004 | 0.0283        | 1.7000e-004  | 0.0284     | 7.5000e-003    | 1.6000e-004   | 7.6600e-003 | 0.0000   | 23.3937   | 23.3937   | 6.6000e-004 | 0.0000 | 23.4103 |

## 4.2 Trip Summary Information

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 12.55                   | 12.55    | 12.55  | 75,802      | 75,802     |
| Total     | 12.55                   | 12.55    | 12.55  | 75,802      | 75,802     |

## 4.3 Trip Type Information

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 16.60      | 8.40       | 6.90        | 100.00     | 0.00       | 0.00        | 100            | 0        | 0       |

## 4.4 Fleet Mix

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.682140 | 0.053800 | 0.258090 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.005970 | 0.000000 | 0.000000 |

## Big Canyon Phase 2A - Orange County, Annual

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

[illegible]

## Big Canyon Phase 2A - Orange County, Annual

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

[illegible]

Mitigated

[illegible]

## Big Canyon Phase 2A - Orange County, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Big Canyon Phase 2A - Orange County, Annual

|             | ROG         | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|-------------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr     |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 2.6700e-003 | 0.0000 | 8.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.6000e-004 | 1.6000e-004 | 0.0000 | 0.0000 | 1.7000e-004 |
| Unmitigated | 2.6700e-003 | 0.0000 | 8.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.6000e-004 | 1.6000e-004 | 0.0000 | 0.0000 | 1.7000e-004 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 2.6600e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005        | 0.0000        | 8.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.6000e-004        | 1.6000e-004        | 0.0000        | 0.0000        | 1.7000e-004        |
| <b>Total</b>          | <b>2.6700e-003</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.6000e-004</b> | <b>1.6000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.7000e-004</b> |

## Big Canyon Phase 2A - Orange County, Annual

**6.2 Area by SubCategory****Mitigated**

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 2.6600e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005        | 0.0000        | 8.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.6000e-004        | 1.6000e-004        | 0.0000        | 0.0000        | 1.7000e-004        |
| <b>Total</b>          | <b>2.6700e-003</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.6000e-004</b> | <b>1.6000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.7000e-004</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water**

## Big Canyon Phase 2A - Orange County, Annual

|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 9.4645    | 6.7000e-004 | 1.4000e-004 | 9.5223 |
| Unmitigated | 9.4645    | 6.7000e-004 | 1.4000e-004 | 9.5223 |

## 7.2 Water by Land Use

Unmitigated

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 4.5626         | 9.4645        | 6.7000e-004        | 1.4000e-004        | 9.5223        |
| <b>Total</b> |                    | <b>9.4645</b> | <b>6.7000e-004</b> | <b>1.4000e-004</b> | <b>9.5223</b> |

## Big Canyon Phase 2A - Orange County, Annual

**7.2 Water by Land Use****Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 4.5626         | 9.4645        | 6.7000e-004        | 1.4000e-004        | 9.5223        |
| <b>Total</b> |                    | <b>9.4645</b> | <b>6.7000e-004</b> | <b>1.4000e-004</b> | <b>9.5223</b> |

**8.0 Waste Detail****8.1 Mitigation Measures Waste****Category/Year**

|             | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-----------|--------|--------|--------|
|             | MT/yr     |        |        |        |
| Mitigated   | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000    | 0.0000 | 0.0000 | 0.0000 |



## Big Canyon Phase 2A - Orange County, Annual

**8.2 Waste by Land Use****Unmitigated**

|              | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**9.0 Operational Offroad**

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## Big Canyon Phase 2A - Orange County, Annual

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

---

# Appendix F

## **Hydrology and Water Quality Information**



180 Grand Avenue  
Suite 1050  
Oakland, CA 94612  
510.839.5066 [phone](#)  
510.839.5825 [fax](#)

[www.esassoc.com](http://www.esassoc.com)

# memorandum

date June 28, 2018

to Project file

cc

from Andrew Collison

subject Geomorphic and hydrologic basis of design for Big Canyon Creek restoration Phase 2A

## Background

Big Canyon is a tributary to Newport Bay located in the City of Newport Beach, CA (see Figure 1). A multiphase restoration project is being undertaken to restore the creek and its floodplain between Jamboree Road and the Bay, as well as to address water quality and mosquito breeding problems. The project is divided into four phases, with construction of Phase 1 completed in 2016 (see Figure 2). Phase 1 is located immediately downstream of Jamboree Road. This memorandum addresses Phase 2A, which covers approximately 1,600 feet of creek and surrounding floodplain in the middle of the project area between the Phase 1 area (upstream boundary) and an Arizona crossing that forms the start of the Phase 2B and Phase 2C areas (downstream boundary). This memorandum presents the basis for channel sizing, floodplain grading and the selection of biotechnical bank stabilization methods, as well as the underlying hydrologic analysis.

## Existing Conditions

Big Canyon has a watershed area of 1.7 square miles at Jamboree Road, with a stormdrain that collects runoff from 0.2 square miles to the north discharging to the creek just upstream of the Arizona crossing. The watershed is largely a mixture of residential, commercial and open space (golf course). Mean annual rainfall is 13 inches, falling mostly between November and April in a typical Mediterranean climate. Reach 2A was pasture in the 1930s and before, but as the watershed urbanized in the 1960s and 1970s it was colonized by scrub and then invasive pepperwood trees. In response to upstream urbanization and hydromodification (reductions in sediment supply and increases in the peak and duration of flows due to impervious surfaces and the efficient stormdrain network) the creek transformed from a shallow braided wash (as shown in photos from 1938) to a deeper, locally incised channel. The presence of pepperwood trees, which inhibit native understory from growing, further contributed to creek bank erosion. The result is a deeper than natural creek that is less well connected to its floodplain (i.e. overflows less frequently).

## **Project Goals and Restoration Approach**

The Phase 2A goals are to restore aquatic and riparian habitat to Big Canyon by:

1. Removing invasive pepperwood trees that have inhibited the establishment of native riparian habitat, and replanting with native vegetation that is acclimated to the soil conditions (including some saline soils)
2. Restoring the physical channel and floodplain functions that sustain habitat, by restoring a stable channel cross section with areas where the channel overflows seasonally onto the floodplain to create seasonal wetlands

These goals will be met by removing the pepperwood trees and restoring native vegetation, and conducting light grading to restore the channel to be less incised, wider, and better connected to its floodplain. Because pepperwood trees are able to regrow from root masses, restoration will involve grubbing the shallow roots out and excavating deeper root balls. Root ball removal is expected to result in a ‘pock marked’ condition across the floodplain with dish-like depressions. Where pepperwood trees are adjacent to the channel the depressions will unavoidably tear out the existing creek banks. In reaches where the existing channel is deeper than desired this will create an opportunity to adapt the root ball depression into lower floodplain areas that develop into seasonal wetlands. In other areas (e.g. where a root ball depression is on an outside bend or the existing channel is already an appropriate width and depth) the approach will be to reconstruct the banks of the creek to appropriate stable dimensions using biotechnical methods (e.g. biodegradable coir fabric, use of live, native plant materials). The condition of the creek immediately following pepperwood root ball removal is somewhat unpredictable, since the extent of roots and degree of disturbance can only be estimated based on what is visible above ground. We have therefore developed an adaptive restoration design approach that anticipates the various conditions that may be encountered after grubbing (e.g. outside bend bank with hole from root ball removal, inside bend without rootball removal etc), and provides engineering design details (treatments) for those conditions, and estimates the approximate location and length of channel in each condition. The precise location of each treatment cannot be known in advance, but the design provides a decision tree that leads the construction contractor to the appropriate treatment and design detail. The decision tree is shown in Table 1 below.

| Bank position  | Bank impacted by rootball removal? | Bank Height After Grubbing | Treatment and design detail                                                                                     |
|----------------|------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------|
| Inside bend    | damaged                            | >2 ft                      | excavate floodplain (30 ft max) and reconstruct 1 ft tall bank with VSL, floodplain daylight slope 3:1 with ECF |
|                |                                    | ≤2 ft                      | cut bank to 3:1, revegetate with ECF                                                                            |
|                | undamaged                          | >2 ft                      | excavate floodplain (30 ft max), leaving 1 ft tall bank, floodplain daylight slope 3:1 with ECF                 |
|                |                                    | ≤2 ft                      | cut bank to 3:1, revegetate with ECF                                                                            |
| Straight reach | damaged                            | >2 ft                      | excavate floodplain (30 ft max) and reconstruct 1 ft tall bank with VSL, floodplain daylight slope 3:1 with ECF |
|                |                                    | ≤2 ft                      | reconstruct bank at 3:1, revegetate with ECF                                                                    |
|                | undamaged                          | >2 ft                      | excavate floodplain (30 ft max), leaving 1 ft tall bank, floodplain daylight slope 3:1 with ECF                 |
|                |                                    | ≤2 ft                      | cut bank to 3:1, revegetate with ECF                                                                            |
| Outside bend   | damaged                            | >2 ft                      | reconstruct bank with VSL, 1.5:1 max slope                                                                      |
|                |                                    | ≤2 ft                      | reconstruct bank with VSL, 1.5:1 max slope                                                                      |
|                | undamaged                          | >2 ft                      | cut bank to 3:1, revegetate with ECF or brush mat TBD                                                           |
|                |                                    | ≤2 ft                      | cut bank to 3:1, revegetate with ECF or brush mat TBD                                                           |

**Table 1. Decision tree for selecting biotechnical bank treatments**

VSL = Vegetated Soil Lift, ECF = Erosion Control Fabric

## Hydrologic Analysis of Big Canyon

Hydraulic modeling of Big Canyon was conducted to select biotechnical materials that are erosion-resistant enough to allow for plant establishment in the first few years following restoration, and to inform estimations of floodplain inundation frequency. Hydraulic models apply inflows (the volume of flow associated with a given recurrence interval rainstorm such as the 2-year or 100-year event) to geometric surfaces representing the channel and floodplain, and predict the resulting flow depth, velocity, inundation extent and erosive power. Previous studies have used simple empirical methods to calculate these inflows, but for the Phase 2A analysis and subsequent phases ESA elected to develop a new hydrologic model of the watershed, cross referenced to a flow frequency analysis of a nearby USGS gage. The model, developed using US Army Corps of Engineers HEC HMS software, more accurately represents the watershed landuses and resulting stormwater flows than previous methods. Outputs from the watershed hydrology model (flows for given flood events) were used as inputs to a 2D hydraulic model (HEC RAS 2D). The hydrologic analysis is described in more detail in a technical memorandum (ESA, 2018), but a brief summary is included here.

## Estimation of flow frequency for Big Canyon

The most accurate method of estimating flow frequencies in a watershed is a long term flow gage, if available. However, like most small creeks, Big Canyon is not gaged and so three indirect methods of estimating flows were used. The first method used was a HEC HMS model. The watershed and flow lines were delineated in GIS, and classified based on the various landuses, vegetation covers and associated permeabilities, as well as the

underlying soil hydrologic properties. The soil types and landuses are shown in Figures 3 and 4. Rainfall events of given recurrence intervals were identified using the NOAA Atlas 14, and used as inputs to the HEC HMS model. The results are a series of hydrographs (plots of creek runoff versus time). Representative hydrographs are shown in Figure 5, and tabulated in Table 2.

The results were compared with two other sources; StreamStats and comparison with the nearby Bonita Creek USGS gage. StreamStats is a USGS statistical tool that uses data from multiple flow gages across Southern California to develop empirical relationships between rainfall, watershed area and flow, but without accounting for landuse, distance inland or other factors that influence watershed runoff across the region. As such it is arguably the weakest line of evidence at Big Canyon, but can be helpful as part of a ‘preponderance of evidence’ approach. The Bonita Creek USGS gage is located 1.5 miles north of Big Canyon on the same side of the Bay, and drains a watershed with similar landuses and topography, making it a good candidate for a weighted watershed area-based comparison of flows. It is larger, at 5.4 square miles. The flows were therefore weighted by the relative areas of Bonita Creek and Big Canyon (3.2:1) to estimate normalized flows for Big Canyon. Area-weighted data from a nearby, similar watershed such as Bonita Creek is generally considered one of the most accurate ways of estimating flows where the period of record exceeds or is close to the recurrence interval of the event under consideration. Bonita Creek has 16 years of flow data, meaning that it is likely an accurate method of calculating flows up to about the 10-year flow and potentially up to the 25-year flood, but for higher (less frequent) flows the lack of data becomes a limitation on accuracy. By comparison, flows from HEC RAS models are typically less accurate for smaller events (such as the 2 and 10-year event) because the model tends to be over conservative (overestimate flood magnitudes) in small events, and become more accurate with larger, less frequent events where those conservative assumptions become more valid. The results of all methods are shown in Table 1.

| Estimated recurrence interval (years) | Bonita Creek observed flow (cfs) | Bonita Creek flow weighted for Big Canyon watershed area (cfs) | Big Canyon HEC HMS flow (cfs) | Big Canyon StreamStats flow (cfs) |
|---------------------------------------|----------------------------------|----------------------------------------------------------------|-------------------------------|-----------------------------------|
| 2                                     | 518                              | 162                                                            | 400                           | 36                                |
| 10                                    | 1660                             | 517                                                            | 780                           | 157                               |
| 25                                    | 2378                             | 741                                                            | 1051                          | 221                               |
| 100                                   | 3531                             | 1101                                                           | 1536                          | 331                               |

**Table 2. Estimate flow recurrence for Big Canyon at Jamboree Road using various methods**

Recommended values for habitat design shown in green, engineering values shown in grey

Based on the above analysis, ESA recommends using weighted Bonita Creek values for the environmental analyses (2 and 10-year event) and the more conservative HEC HMS results for the engineering analyses (10-, 25- and 100-year flood). For events that use the weighted Bonita Creek peak flows but require a full hydrograph rather than a single peak flow, we recommend adjusting the corresponding HEC HMS hydrograph to fit the weighted Bonita Creek peak flow. This is the approach used in the hydraulic modeling described below.

## Hydraulic modeling

A hydraulic model of the Phase 2A area was developed in HEC RAS 2D. The underlying topography was the 2011 USGS LiDAR surface for Orange County. Because of the dense vegetation cover in parts of the project site, ESA staff conducted a field verification of the LiDAR surface that involved using a total station to survey several cross sections across the floodplain and channel, for comparison with the LiDAR surface. The results showed typical errors of a foot or more in the elevation of the channel and floodplain. To improve the accuracy of the channel design and hydraulic model, the surveyed cross sections were used to interpolate the channel geometry between sections, with the resulting cross section being “burned in” to the LiDAR surface (shown in Figure 6).

The corrected surface was imported to HEC RAS and divided into elements that represent the two dimensional flow of water across the surface. The upstream boundary was the Phase 1/Phase 2A boundary, with the flows from Jamboree Road shown in Table 1 being applied. The downstream boundary was the Arizona crossing at the Phase 2A/Phase 2B/C boundary, which was modeled as a normal depth boundary. The flows were used as shown in Table 3.

| Flow recurrence and peak                                                   | Purpose                                                                                                                                     |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 2-year flow (162 cfs)                                                      | Delineate the frequently inundated floodplain areas (Figure 7)                                                                              |
| 10-year environmental flow (517 cfs)<br>10-year engineering flow (780 cfs) | Delineate the outer limits of infrequently inundated floodplain (Figure 8)<br>Identify biotechnical bank stabilization materials (Figure 9) |

**Table 3. Flow events modeled**

Inundation depth and extent results from the 2 and 10-year flow were used as a line of evidence to assess floodplain connectivity in the biological assessment. Shear stress results from the 10-year flow were compared with the shear resistance of biotechnical bank materials to identify areas where greater or lesser erosion control are needed, and to select treatments appropriately (discussed below).

## Selecting biotechnical bank stabilization methods

As discussed above, immediately following tree root removal it is anticipated that there will be lengths of creek channel that require reconstruction to appropriate dimensions. For outside bends where the channel requires fill to create an appropriate channel dimension rather than cut, the design approach is to construct the bank using Vegetated Soil Lifts (VSLs). For banks constructed in filled or placed soil rather than cut into native soil, VSLs provide a higher level of sub-surface bank stabilization than methods such as willow mattresses, which only provide surface erosion protection. VSLs help the banks remain stable during the first one to two years after construction when the root masses and surface cover of riparian vegetation is still developing and the placed fill is inherently weaker than most cut slopes. VSLs use biodegradable coir fabric to encapsulate soil in 1-foot lifts that



build the bank up to its design height. Between each lift of fabric encapsulated soil, a horizontal layer of live pole plantings is placed (typically willow poles). An advantage of using VSLs at Big Canyon is that it provides an opportunity to amend the native soil during construction, which can help mitigate for the presence of salinity that would otherwise inhibit willow and other riparian plants from growing. For channel areas where the required channel dimension requires cut rather than fill, brush mat using native plants or replanting with biodegradable Erosion Control Fabric (ECF) are proposed. To provisionally assess the risk of erosion following construction (before plants have become established) ESA used the more conservative 10-year flow (780 cfs) with a shear stress evaluation. The 10-year event was selected because it provides a good compromise between over- and under-conservatism in design for a restoration project where there is little risk to infrastructure if some erosion does occur, and where some adjustment in channel alignment is acceptable. Note that this analysis made several conservative assumptions (i.e. assumptions that likely overestimate the erosion risk). Firstly, the “engineering” 10-year flow is likely an overestimate of the actual 10-year flow, and is potentially closer to a 25-year flow. Secondly, the analysis used the existing channel geometry, which is incised in some locations. This was used because the proposed geometry is uncertain and dependent on the degree to which root ball removal changes the channel morphology after grubbing. Use of the existing channel geometry is more conservative than using the proposed condition, which will be wider and shallower in most cases.

The 10-year flow shear stress results were compared with published values for shear resistance (Fischenich, 2001). The results (Figure 9) show low shear stresses in the downstream reach of the site (from the Arizona crossing up to Station 900), where valley gradient is flatter due to the grade control of the Arizona crossing. In this area the 10-year event stresses are all well within the range that can be resisted by the coir erosion control fabric lining both the VSL and the vegetation mattresses, before vegetation becomes established. In the upper reach where valley gradient is steeper (station 900 to 1800), some short sections areas of channel have stresses that exceed the resistance of coir fabric, but are within the range of brush mattresses once vegetation has become established. These reaches will be investigated in more detail during final design.



SOURCE: City of Newport Beach, ESRI — Big Canyon Habitat Restoration and Water Quality Improvement Project. D130934

**Figure 1**  
Project Location/Regional Map

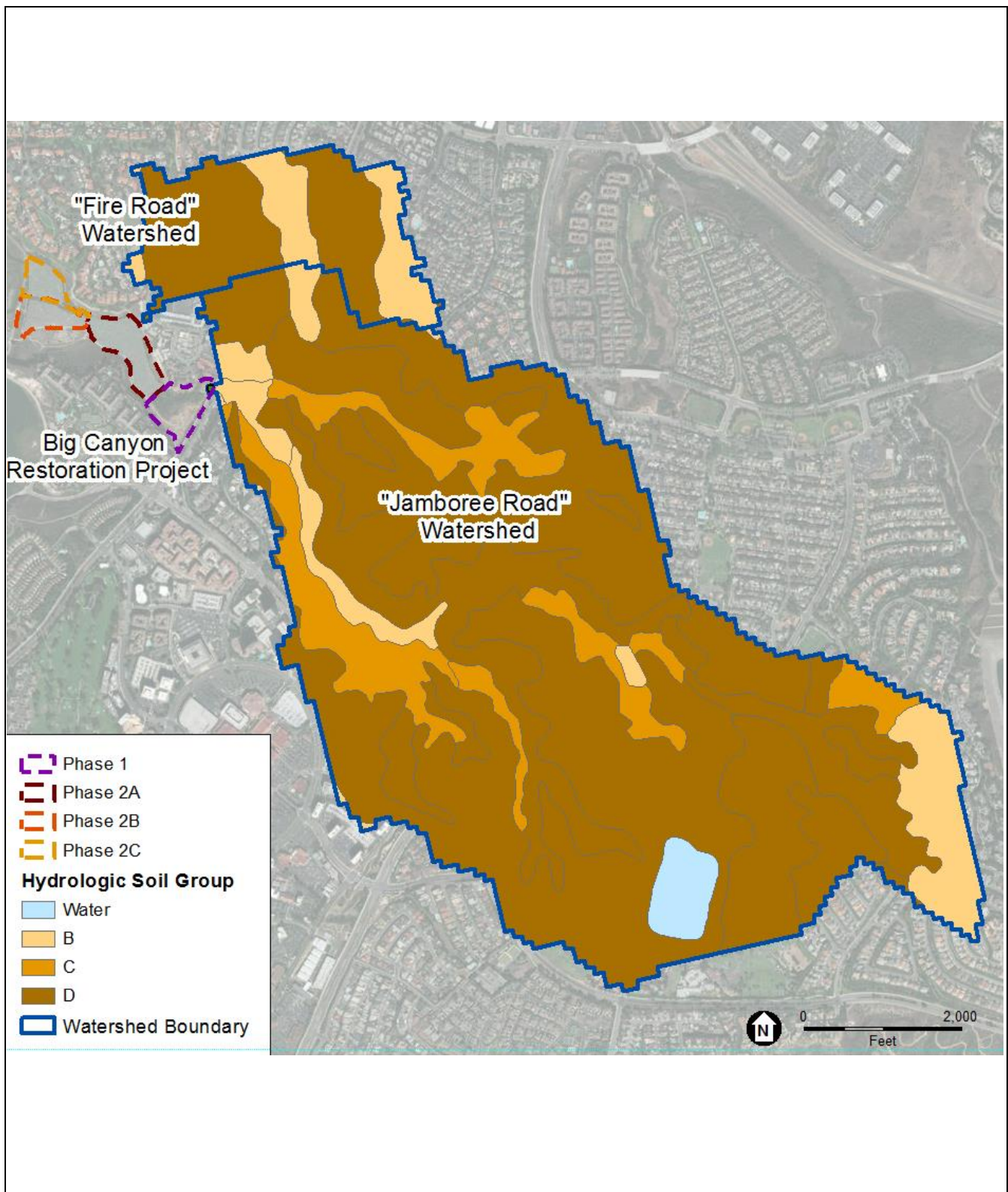




Project Name

**Figure 2**  
**Big Canyon Coastal Habitat Restoration**  
**and Adaptation - Phases 1 and 2**



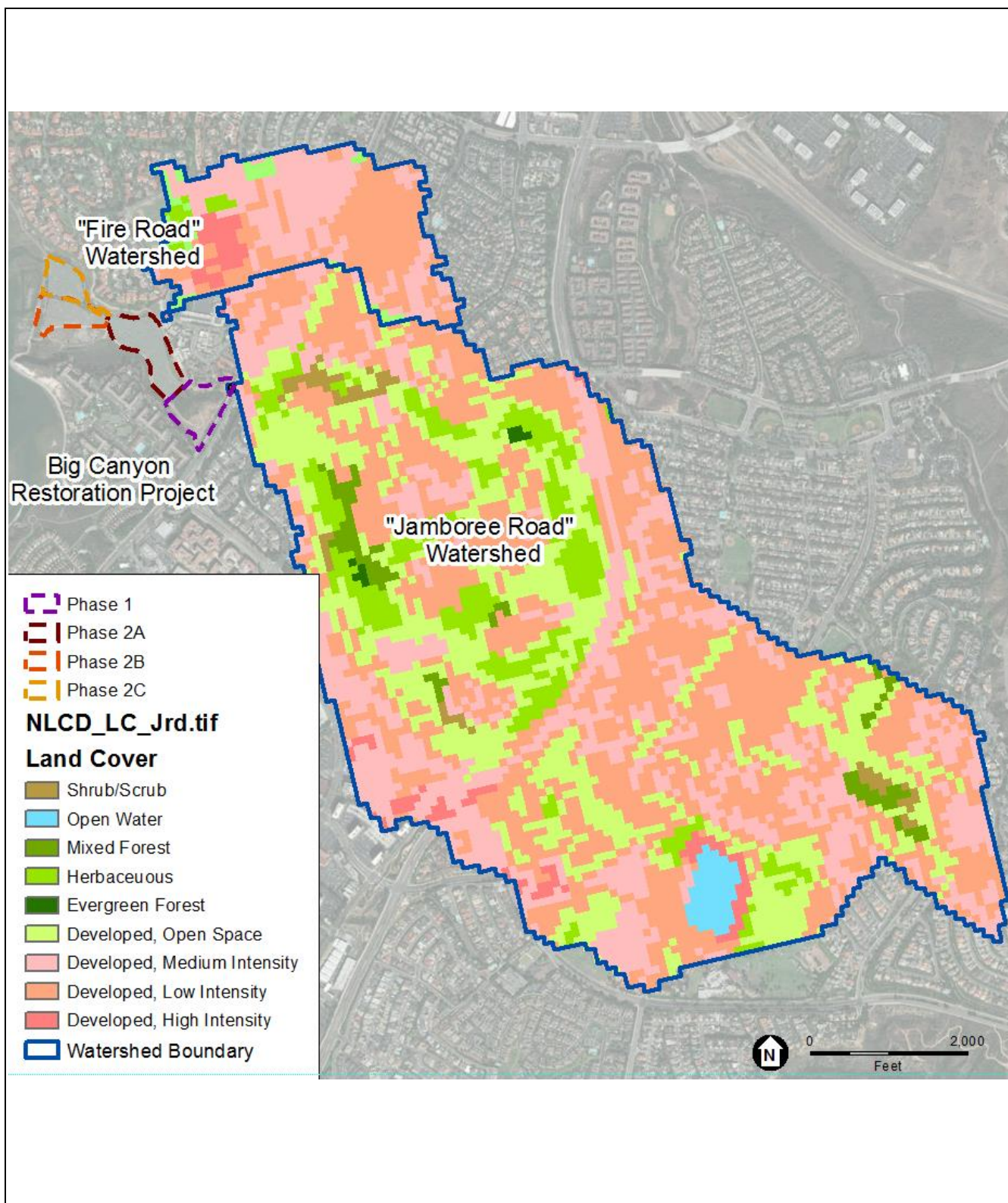


SOURCE:

Big Canyon Phase 2, D171063

**Figure 3**

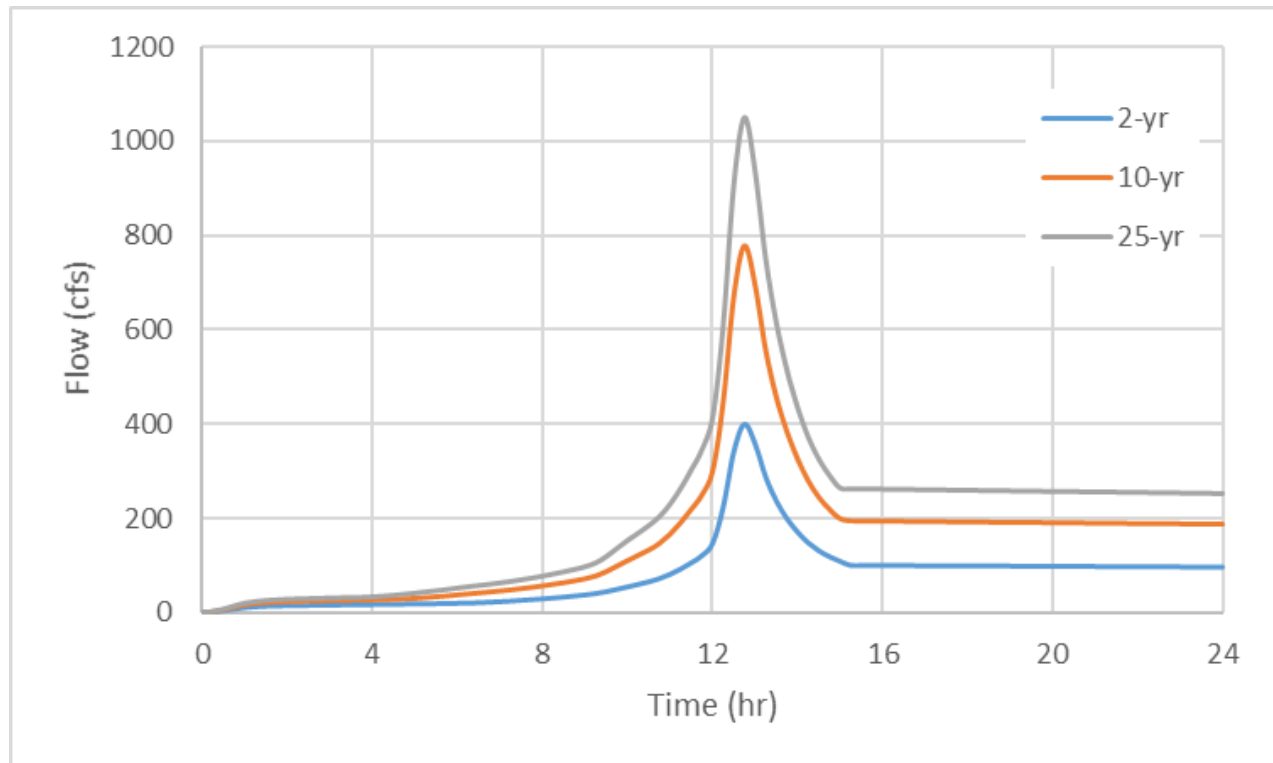
Hydrologic soil types in the Big Canyon watershed  
HEC HMS model



SOURCE:

Big Canyon Phase 2, D171063

**Figure 4**  
Landuses in the Big Canyon watershed HEC HMS  
model

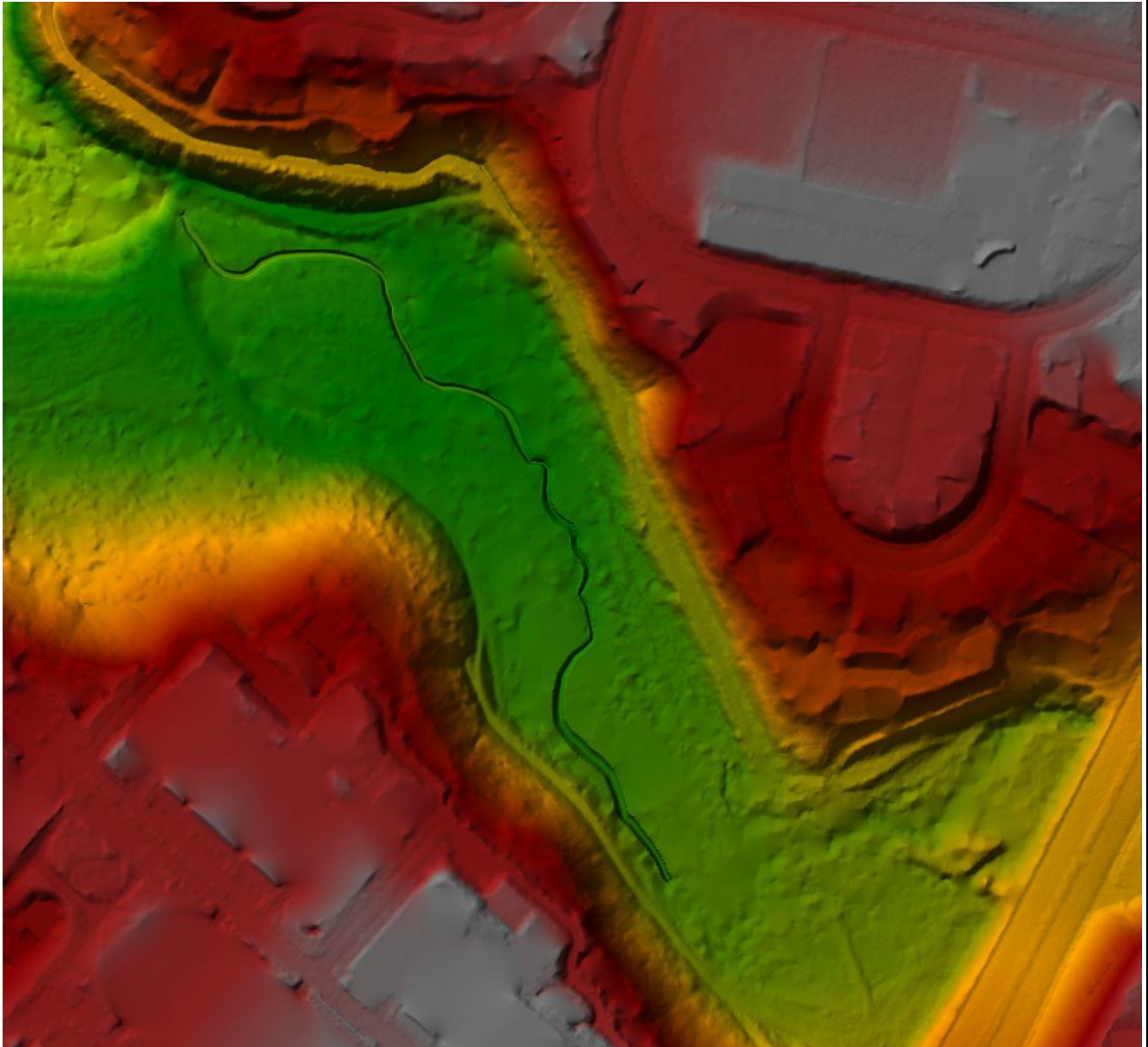


SOURCE:

Big Canyon Phase 2, D171063

**Figure 5**  
Hydrographs generated from HEC HMS model  
prior to adjusting peak flows

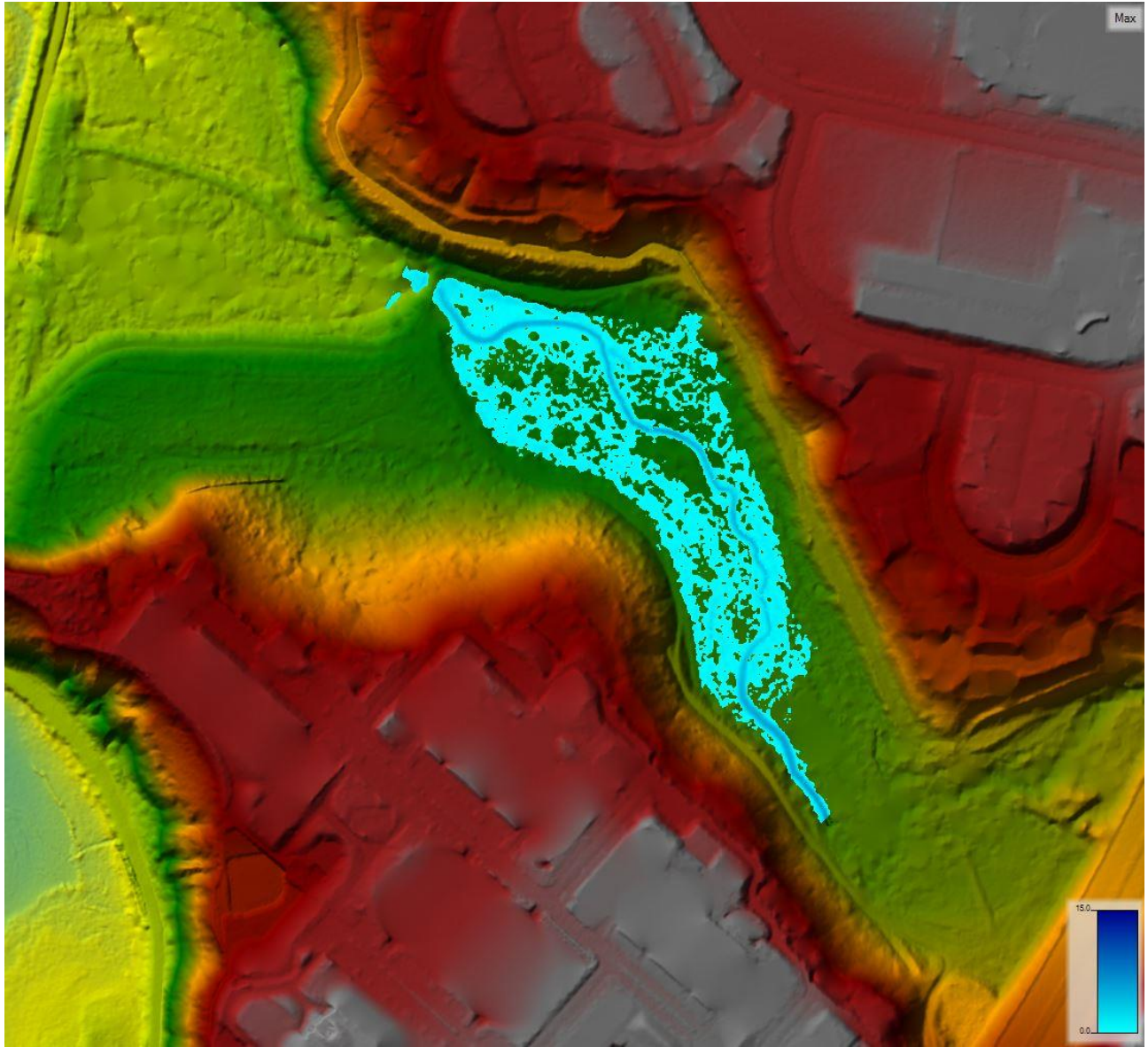




SOURCE:

Big Canyon Phase 2, D171063

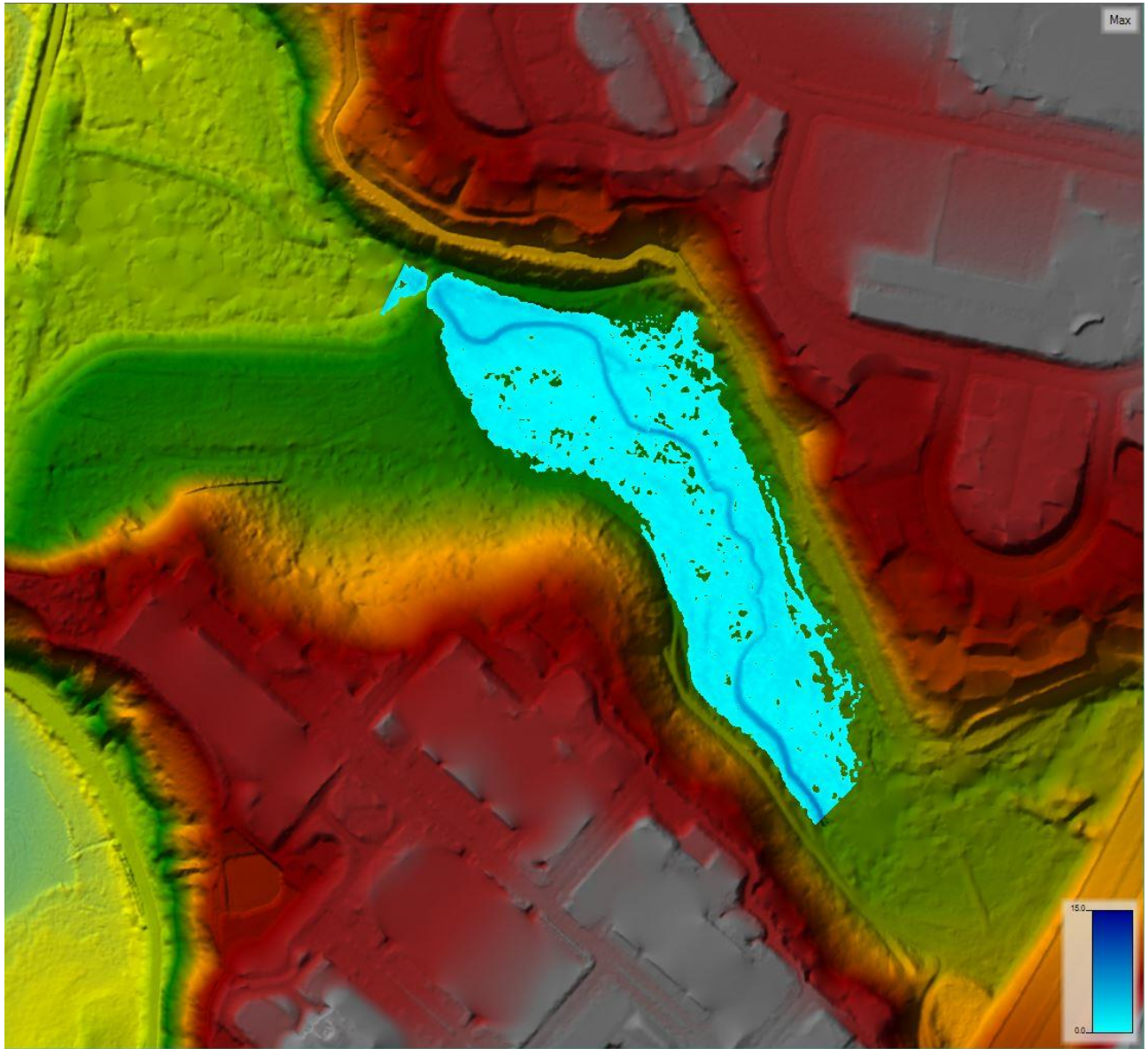
**Figure 6**  
Hydraulic model underlying topographic surface



SOURCE: ESA

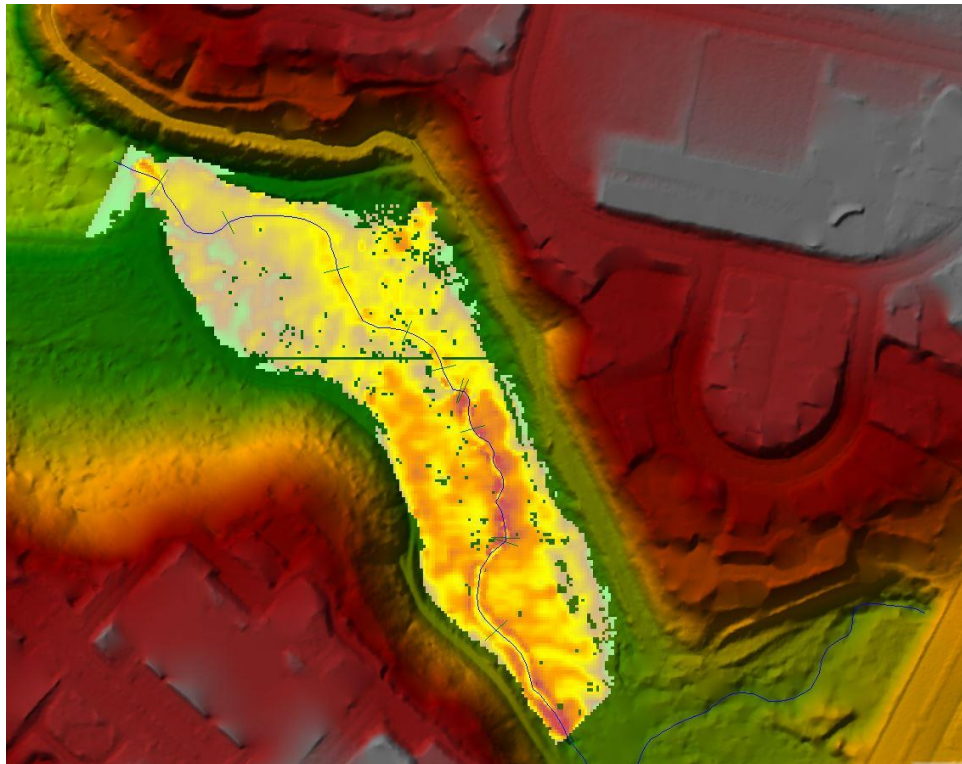
Big Canyon Phase 2, D171063  
**Figure 7**  
Inundation depth during 2-year flow  
(existing conditions)



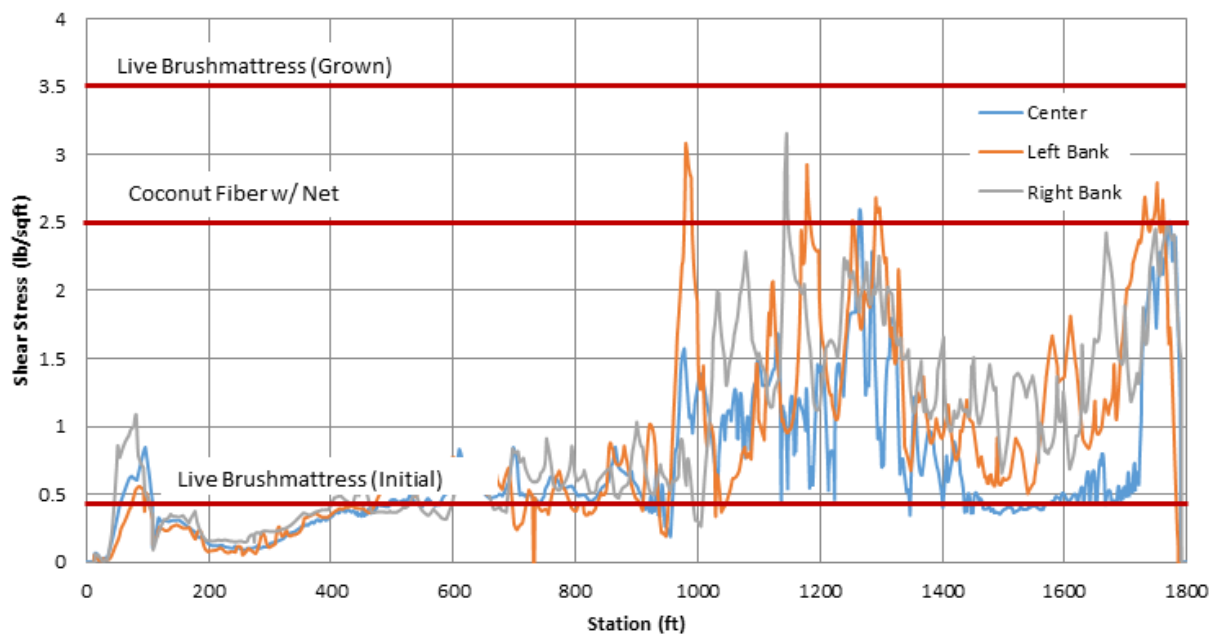


SOURCE:ESA

Big Canyon Phase 2, D171063  
**Figure 8**  
Inundation depth during 10-year flow  
(existing conditions)



### Big Canyon Phase 2 Restoration Shear Stress Analysis - Q10



SOURCE:

Big Canyon Phase 2, D171063

**Figure 9**  
Shear stress (erosion potential) during 10-year flow



## TECHNICAL MEMORANDUM

**Subject:** Water Quality Report – Selenium Water Quality Monitoring Following Big Canyon Phase 1 Water Quality and Restoration Project Implementation

**Date:** June 29, 2018

**Submitted by:** Steve Morgan, M.S., Environmental Scientist, Burns & McDonnell

The City of Newport Beach performed Selenium (Se) monitoring in Big Canyon in support of the multi-benefit Big Canyon Habitat Restoration & Water Quality Improvement Project (Phase 1). This Se monitoring included three pre-construction sampling events performed on 3/25/2015, 4/27/2015, and 5/21/2015, and an additional post-construction sampling event performed on 7/31/2017 with the dry weather flow diversion in operation. A summary of the results from these four sampling events can be found in the table below (refer to attached Figures 1 and 2 for sampling locations):

| Sampling Location                            | 3/25/2015<br>Total Se (ppb) | 4/27/2015<br>Total Se (ppb) | 5/21/2015<br>Total Se (ppb) | 7/31/2017<br>Total Se (ppb) |
|----------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| BCJAM0-A4<br>(end of stream before inlet)    |                             | 17                          | 11                          |                             |
| BCJAM0-A3-1                                  |                             |                             |                             |                             |
| BCJAM0-A3-2                                  |                             | 7                           | 12                          | 17.2                        |
| BCJAM0-A1                                    |                             | 5                           | 12                          |                             |
| BCJAM0-A2                                    |                             | 7                           | 14                          |                             |
|                                              |                             | 18                          |                             |                             |
| BCJAM0-A5                                    | 11                          |                             | 13,14                       |                             |
| BCJAM0-A6                                    |                             | 17                          | 18                          |                             |
| BCJAM0-A7<br>(along bank out of main stream) |                             | 22                          | 24                          |                             |
| BCJAM0-B                                     |                             | 66                          | 19                          |                             |
| BCJAM0-C                                     |                             | 41                          | 26                          |                             |
| BCJAM0-D (seep)                              |                             | 32                          | 75                          |                             |
| BCJAM0-E (seep)                              |                             | 250                         | 32                          |                             |
| BCJAM0-F                                     |                             | 44                          | 26                          |                             |
| BCJAM0-G (creek)                             |                             | 37                          | 28                          |                             |
| BCJAM-0B                                     |                             |                             |                             | 121                         |
| BCJAM-0C                                     |                             |                             |                             | 93.1                        |
| BC Jam-1                                     | 24                          | 35                          | 34                          |                             |
| BC Jam-1b                                    |                             |                             |                             |                             |

| Sampling Location                                                | 3/25/2015<br>Total Se (ppb) | 4/27/2015<br>Total Se (ppb) | 5/21/2015<br>Total Se (ppb) | 7/31/2017<br>Total Se (ppb) |
|------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| BC Jam-2 (UBCW-JAM)                                              | 25                          | 36                          | 49                          |                             |
| BC Jam-2A<br>(outlet of serpentine channel)                      |                             |                             |                             | 12.5                        |
| BC Jam-2B<br>(upstream of confluence with<br>serpentine channel) |                             |                             |                             | 14.5                        |
| BC Jam-3<br>(100-feet downstream of<br>confluence)               | 22                          | 37                          | 49                          | 13.9                        |
| BC Jam-4                                                         | 24                          |                             | 54                          |                             |
| BC Jam-4A                                                        |                             |                             | 54                          |                             |
| BC Jam-4B                                                        |                             |                             | 53                          |                             |
| BC Jam-5                                                         | 23                          |                             | 55                          |                             |
| BC Jam-6                                                         | 23                          |                             | 63,56                       | 21.5                        |

*\*Not all sampling locations were utilized during these four sampling events. Sampling locations with no results were removed from the table.*

In the three sampling events prior to the installation of the diversion downstream of Jamboree Road, the concentration of Se was measured to be 22 ppb, 37 ppb, and 49 ppb in the area 100-feet downstream of the confluence (see row BC Jam-3, highlighted above). In the post-construction sampling event on 7/31/2017, the concentration of Se was 13.9 ppb at that same sampling location. These results suggest that the installation of the dry weather diversion downstream of Jamboree Road has contributed to reduced Se concentrations (anywhere from a 38-78% reduction based on the previous sample comparisons).

It is important context to note that the 2015 samples were taken after a period of prolonged drought when groundwater levels were relatively low, whereas the 2017 sampling event occurred after the El Niño rain season of 2016-2017, which caused groundwater levels to rise over 2 feet. This as well as other environmental factors need to be taken into consideration when comparing these sampling event results. However, the elevated groundwater level likely led to greater releases of Se from groundwater and increased concentrations of Se upstream (see row BCJAM0-A3-2, highlighted above). This suggests that Se reductions from the dry weather diversion may be greater than the 38-78% indicated by this data set. Under drier conditions, the groundwater table will lower, and the concentrations of Se downstream of the diversion would likely decrease with decreased groundwater seepage.

Water quality sampling and analysis for Se of Big Canyon is being planned for the summer of 2018 as part of the Phase 2B and 2C Feasibility Study. In addition to monitoring for Se in surface water, this sampling will also include flow monitoring, groundwater monitoring, and sediment analysis. The ongoing monitoring program will have a continued emphasis on clarifying the contribution that groundwater has on downstream flow and Se concentrations.



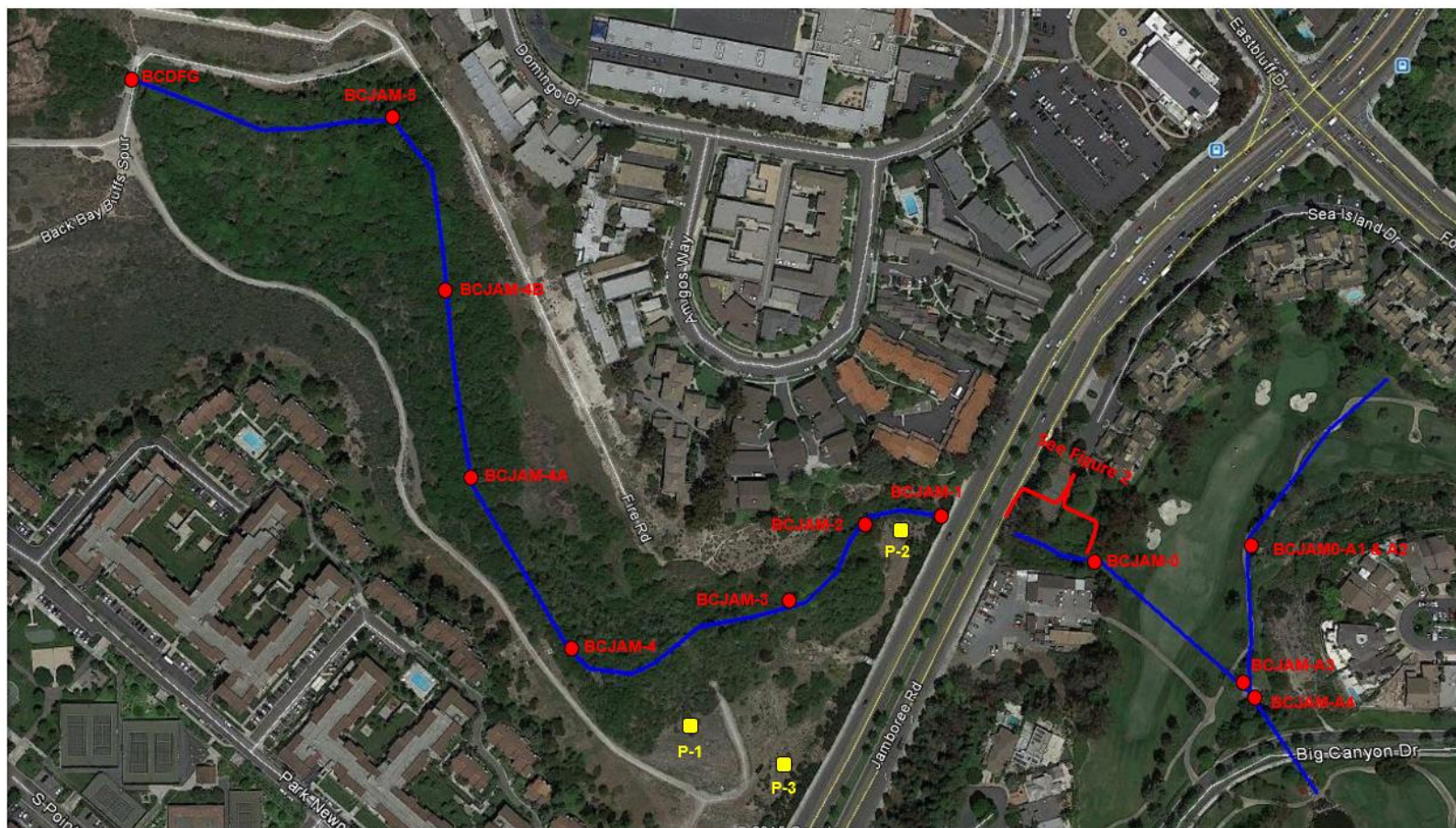


Figure 1. Big Canyon Selenium Monitoring Sites





Figure 2. Monitoring Sites in Reach 2 – Maintenance Yard Canyon

## **Big Canyon Coastal Habitat Restoration and Adaptation Project – Phase 2A**

### **Sediment and Erosion Control During Construction**

The project stormwater pollution and sediment control will be managed through a project specific Stormwater Pollution Prevention Plan (SWPPP) during the construction phase. The key project specific SWPPP elements will include check dams in Big Canyon Creek, a rock construction entrance, and biodegradable wattles.

#### Phase I SWPPP Summary

Prior to any clearing, grubbing and grading, several check dams will be installed in Big Canyon Creek. The check dams will serve to limit the amount of sediment discharged from the site during the construction process. Biodegradable wattles will be installed along the banks (top of bank adjacent to creek) prior to any clearing, grubbing, and grading to limit and control the amount of sediment that could potentially be discharged from the site during precipitation events. Rock construction entrances will reduce mud and debris that might otherwise be tracked outside the project limits of disturbance. There are three access ramps into the Phase 2A area that are shown on the Design Plans. These locations include two existing gravel roads off of the main perimeter roads. The number of access roads and their locations were selected to avoid stream channel crossing by equipment. The location of the construction entrances will be coordinated with the City of Newport Beach. These systems will be installed in accordance with the project specific SWPPP and inspected prior to any clearing, grubbing and grading. These systems will be inspected and maintained regularly and following precipitation events.

#### Phase II SWPPP Summary

During and following the installation of site vegetation, both wattles and biodegradable rolled erosion control products will be used to control surface soil erosion that could occur during precipitation events and during the vegetation establishment phase. The construction entrances will remain in place and check dams in Big Canyon Creek will not be removed until the entire site is stabilized through the establishment of vegetative cover and protected with biodegradable wattles and biodegradable rolled erosion control products.

# Appendix G

## **Noise and Vibration Calculations**



## Project: Big Canyon Coastal Habitat Restoration and Adaptation

### Construction Noise Impact on Sensitive Receptors

#### Parameters

|                     |                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------|
| Construction Hours: | 8 Daytime hours (7 am to 7 pm)<br>0 Evening hours (7 pm to 10 pm)<br>0 Nighttime hours (10 pm to 7 am) |
| Leq to L10 factor   | 3                                                                                                      |

|                                                                          |                  |                                           |                            | Sensitive Receptor |      |                 |     |                                   |
|--------------------------------------------------------------------------|------------------|-------------------------------------------|----------------------------|--------------------|------|-----------------|-----|-----------------------------------|
| Construction Phase<br>Equipment Type                                     | No. of<br>Equip. | Reference<br>Noise Level at<br>50ft, Lmax | Acoustical<br>Usage Factor | Distance (ft)      | Lmax | Combined<br>Leq | L10 | Estimated Noise<br>Shielding, dBA |
| <b>1A: Site Preparation Clearing and Grubbing</b>                        |                  |                                           |                            |                    |      | <b>82</b>       |     |                                   |
| Rubber Tired Loader                                                      | 1                | 79                                        | 50%                        | 50                 | 79   | 76              | 79  | 0                                 |
| Backhoe                                                                  | 1                | 80                                        | 40%                        | 50                 | 80   | 76              | 79  | 0                                 |
| Rubber Tired Dozers                                                      | 1                | 82                                        | 40%                        | 50                 | 82   | 78              | 81  | 0                                 |
| <b>1B: Clearing and Grubbing</b>                                         |                  |                                           |                            |                    |      | <b>85</b>       |     |                                   |
| Rubber Tired Loader                                                      | 1                | 79                                        | 50%                        | 50                 | 79   | 76              | 79  | 0                                 |
| Backhoe                                                                  | 1                | 80                                        | 40%                        | 50                 | 80   | 76              | 79  | 0                                 |
| Rubber Tired Dozers                                                      | 1                | 82                                        | 40%                        | 50                 | 82   | 78              | 81  | 0                                 |
| Other Material Handling Equipment                                        | 1                | 85                                        | 50%                        | 50                 | 85   | 82              | 85  | 0                                 |
| Off-highway Trucks                                                       | 1                | 76                                        | 20%                        | 50                 | 76   | 69              | 72  | 0                                 |
| <b>2A: Excavaation and Grading</b>                                       |                  |                                           |                            |                    |      | <b>84</b>       |     |                                   |
| Rubber Tired Loader                                                      | 1                | 79                                        | 50%                        | 50                 | 79   | 76              | 79  | 0                                 |
| Backhoe                                                                  | 1                | 80                                        | 40%                        | 50                 | 80   | 76              | 79  | 0                                 |
| Compactor (Ground)                                                       | 1                | 83                                        | 20%                        | 50                 | 83   | 76              | 79  | 0                                 |
| Graders                                                                  | 1                | 85                                        | 40%                        | 50                 | 85   | 81              | 84  | 0                                 |
| Off-highway Trucks                                                       | 1                | 76                                        | 20%                        | 50                 | 76   | 69              | 72  | 0                                 |
| <b>2B: Onsite Filling in Upland Areas</b>                                |                  |                                           |                            |                    |      | <b>81</b>       |     |                                   |
| Rubber Tired Loader                                                      | 1                | 79                                        | 50%                        | 50                 | 79   | 76              | 79  | 0                                 |
| Backhoe                                                                  | 1                | 80                                        | 40%                        | 50                 | 80   | 76              | 79  | 0                                 |
| Compactor (Ground)                                                       | 1                | 83                                        | 20%                        | 50                 | 83   | 76              | 79  | 0                                 |
| Off-highway Trucks                                                       | 1                | 76                                        | 20%                        | 50                 | 76   | 69              | 72  | 0                                 |
| <b>2C: Fine Stie Grading</b>                                             |                  |                                           |                            |                    |      | <b>83</b>       |     |                                   |
| Rubber Tired Loader                                                      | 1                | 79                                        | 50%                        | 50                 | 79   | 76              | 79  | 0                                 |
| Backhoe                                                                  | 1                | 80                                        | 40%                        | 50                 | 80   | 76              | 79  | 0                                 |
| Graders                                                                  | 1                | 85                                        | 40%                        | 50                 | 85   | 81              | 84  | 0                                 |
| Off-highway Trucks                                                       | 1                | 76                                        | 20%                        | 50                 | 76   | 69              | 72  | 0                                 |
| <b>3A: Temporary Irrigation</b>                                          |                  |                                           |                            |                    |      | <b>69</b>       |     |                                   |
| Off-highway Trucks                                                       | 1                | 76                                        | 20%                        | 50                 | 76   | 69              | 72  | 0                                 |
| <b>3B: Soil Amendments</b>                                               |                  |                                           |                            |                    |      | <b>77</b>       |     |                                   |
| Rubber Tired Loader                                                      | 1                | 79                                        | 50%                        | 50                 | 79   | 76              | 79  | 0                                 |
| Off-highway Trucks                                                       | 1                | 76                                        | 20%                        | 50                 | 76   | 69              | 72  | 0                                 |
| <b>3C: Plantings for Riparian, Alkaline Meadow &amp; Upland Habitats</b> |                  |                                           |                            |                    |      | <b>79</b>       |     |                                   |
| Rubber Tired Loader                                                      | 1                | 79                                        | 50%                        | 50                 | 79   | 76              | 79  | 0                                 |
| Backhoe                                                                  | 1                | 80                                        | 40%                        | 50                 | 80   | 76              | 79  | 0                                 |
| Off-highway Trucks                                                       | 1                | 76                                        | 20%                        | 50                 | 76   | 69              | 72  | 0                                 |
| <b>4: Raise Viewing Area and Trail Upgrades</b>                          |                  |                                           |                            |                    |      | <b>81</b>       |     |                                   |
| Backhoe                                                                  | 1                | 80                                        | 40%                        | 50                 | 80   | 76              | 79  | 0                                 |
| Rubber Tired Loader                                                      | 1                | 79                                        | 50%                        | 50                 | 79   | 76              | 79  | 0                                 |
| Compactor (Ground)                                                       | 1                | 83                                        | 20%                        | 50                 | 83   | 76              | 79  | 0                                 |
| Off-highway Trucks                                                       | 1                | 76                                        | 20%                        | 50                 | 76   | 69              | 72  | 0                                 |
| <b>5: Pruning, Soil Amendments and Other Measures</b>                    |                  |                                           |                            |                    |      | <b>79</b>       |     |                                   |
| Rubber Tired Loader                                                      | 1                | 79                                        | 50%                        | 50                 | 79   | 76              | 79  | 0                                 |
| Backhoe                                                                  | 1                | 80                                        | 40%                        | 50                 | 80   | 76              | 79  | 0                                 |
| Off-highway Trucks                                                       | 1                | 76                                        | 20%                        | 50                 | 76   | 69              | 72  | 0                                 |

## Project: Big Canyon Coastal Habitat Restoration and Adaptation

### Vibration Velocity Calculations

|                          |             |                            |                                     |
|--------------------------|-------------|----------------------------|-------------------------------------|
| Large Bulldozer (V1)     | 0.089       | in/sec PPV                 |                                     |
| Reference Distance (R1)  | 25          | ft                         |                                     |
| Distance (R2)            | 60          | ft                         |                                     |
|                          | 0.416666667 |                            |                                     |
|                          | 0.269       | $V1(R1/R2)^r$              | r=1.5                               |
| Large Bulldozer at 60 ft | 0.024       | in/sec PPV                 |                                     |
| RMS                      | 0.0060      | in/sec                     |                                     |
|                          | 1.00E-06    | $20 \cdot \log(V/V_{ref})$ | $V_{ref} = 0.000001 \text{ in/sec}$ |
| RMS                      | 75.5        | VdB                        |                                     |

## Project: Big Canyon Coastal Habitat Restoration and Adaptation

### Vibration Velocity Calculations

|                          |             |                         |                        |
|--------------------------|-------------|-------------------------|------------------------|
| Loaded Trucks (V1)       | 0.076       | in/sec PPV              |                        |
| Reference Distance (R1)  | 25          | ft                      |                        |
| Distance (R2)            | 60          | ft                      |                        |
|                          | 0.416666667 |                         |                        |
|                          | 0.269       | $V1(R1/R2)^r$           | r=1.5                  |
| Large Bulldozer at 60 ft | 0.020       | in/sec PPV              |                        |
| RMS                      | 0.0051      | in/sec                  |                        |
|                          | 1.00E-06    | $20 \cdot \log(V/Vref)$ | Vref = 0.000001 in/sec |
| RMS                      | 74.2        | VdB                     |                        |

## Project: Big Canyon Coastal Habitat Restoration and Adaptation

### Vibration Velocity Calculations

|                          |             |                            |                                     |
|--------------------------|-------------|----------------------------|-------------------------------------|
| Small Bulldozer (V1)     | 0.003       | in/sec PPV                 |                                     |
| Reference Distance (R1)  | 25          | ft                         |                                     |
| Distance (R2)            | 60          | ft                         |                                     |
|                          | 0.416666667 |                            |                                     |
|                          | 0.269       | $V1(R1/R2)^r$              | r=1.5                               |
| Large Bulldozer at 60 ft | 0.001       | in/sec PPV                 |                                     |
| RMS                      | 0.0002      | in/sec                     |                                     |
|                          | 1.00E-06    | $20 \cdot \log(V/V_{ref})$ | $V_{ref} = 0.000001 \text{ in/sec}$ |
| RMS                      | 46.1        | VdB                        |                                     |

## Appendix H

### **Assembly Bill 52 Native American Consultation Information**



**CITY OF NEWPORT BEACH**

100 Civic Center Drive  
Newport Beach, California 92660

[newportbeachca.gov](http://newportbeachca.gov)

March 16, 2018

Andrew Salas, Chairman  
Gabrieleño Band of Mission Indians – Kizh Nation  
PO Box 393  
Covina, CA 91723

RE: Notice of Proposed Project Pursuant to Public Resources Code Section 21080.3.1  
("AB 52") - **Big Canyon Restoration Project, Phase 2A, City of Newport Beach**

Dear Mr. Salas:

This letter is to inform you that the Newport Bay Conservancy (Conservancy) proposes to implement Phase 2A of the Big Canyon Restoration Project (Project), as described below. As lead agency pursuant to the California Environmental Quality Act (CEQA), the City of Newport Beach (City), recognizing the importance of protecting tribal cultural resources and sacred places, will continue its previous outreach and monitoring efforts initiated in Phase 1 (located immediately upstream of Phase 2A) of the Big Canyon restoration. As you know, the Gabrieleño Band of Mission Indians – Kizh Nation conducted the cultural resources and archeological monitoring for the duration of all Phase 1 construction-related excavation activities.

The City is now formally initiating AB 52 outreach for the Phase 2A Project. Per AB 52, the tribe has the right to consult on a proposed public or private project prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report.

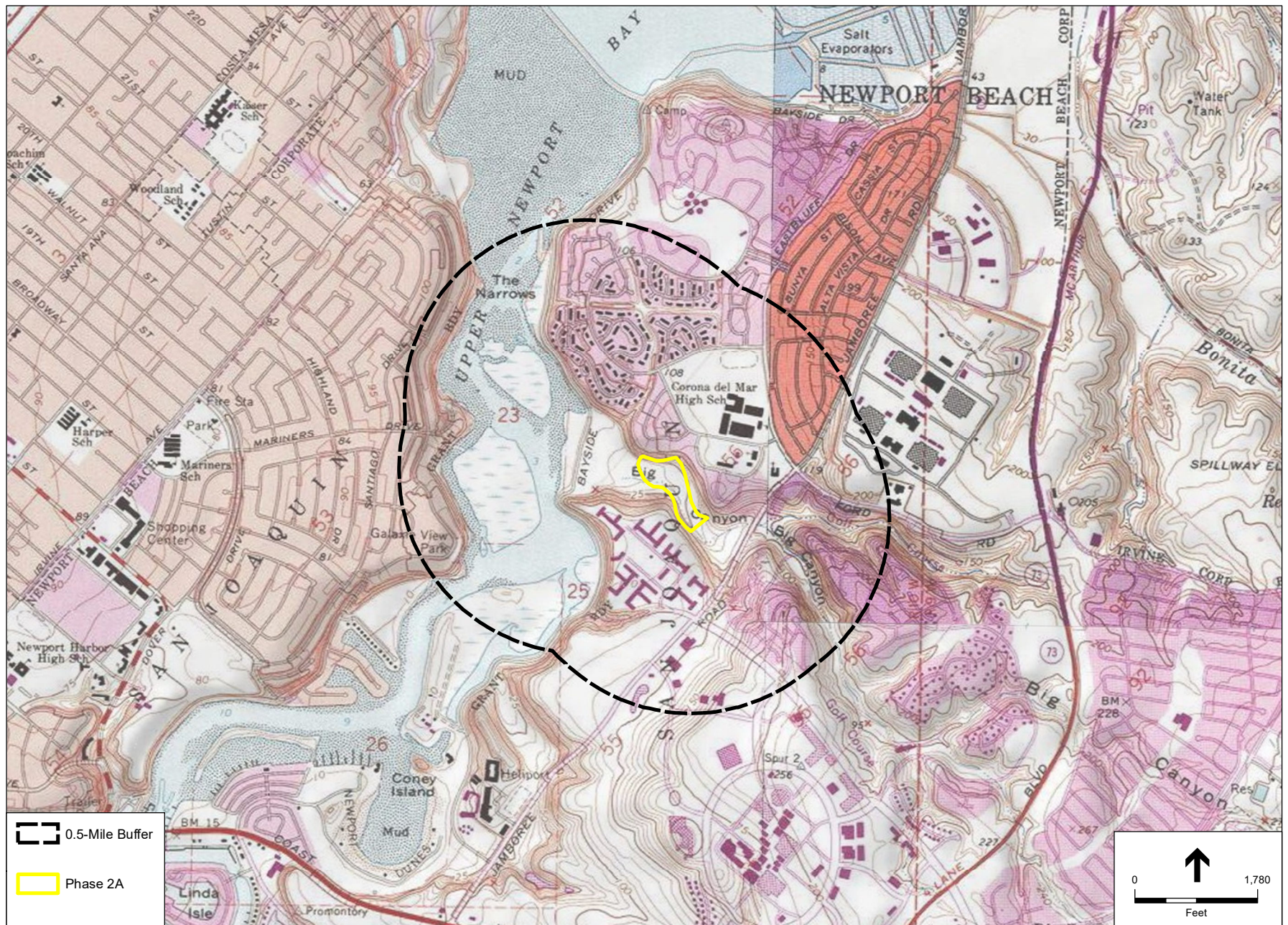
The Project is located in the City of Newport Beach, within Orange County, as shown in the attached map (Figure 1). The Phase 2A Project area measures approximately 9.2 acres. The Project would involve restoration planning and design, including invasive plant removal and limited grading, followed by native plant revegetation and management, including possible soil amendment, to restore riparian and upland habitats.

If you would, please send me a letter in the next 30 calendar days from receipt of this letter indicating that you would like to continue working with the City on this Project.

Sincerely,

Robert Stein  
City of Newport Beach





Big Canyon Restoration Project, Phase 2a . D171063

**Figure 1**  
Project Map





**CITY OF NEWPORT BEACH**

100 Civic Center Drive  
Newport Beach, California 92660

[newportbeachca.gov](http://newportbeachca.gov)

March 19, 2018

San Gabriel Band of Mission Indians  
Anthony Morales, Chief  
PO Box 693  
San Gabriel, CA 91778

RE: Notice of Proposed Project Pursuant to Public Resources Code Section 21080.3.1  
("AB 52") - **Big Canyon Restoration Project, Phase 2A, City of Newport Beach**

Dear Mr. Morales:

This letter is to inform you that the Newport Bay Conservancy (Conservancy) proposes to implement Phase 2A of the Big Canyon Restoration Project (Project), as described below. As lead agency pursuant to the California Environmental Quality Act (CEQA), the City of Newport Beach (City), recognizing the importance of protecting tribal cultural resources and sacred places, will continue its previous outreach and monitoring efforts initiated in Phase 1 (located immediately upstream of Phase 2A) of the Big Canyon restoration. The Gabrieleño Band of Mission Indians-Kizh Nation conducted cultural resources and archeological monitoring for the duration of all Phase 1 construction-related excavation activities.

The City is now initiating AB 52 outreach for the Phase 2A Project. Per AB 52, the tribe has the right to consult on a proposed public or private project prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report.

The Project is located in the City of Newport Beach, within Orange County, as shown in the attached map (Figure 1). The Phase 2A Project area measures approximately 9.2 acres. The Project would involve restoration planning and design, including invasive plant removal and limited grading, followed by native plant revegetation and management, including possible soil amendment, to restore riparian and upland habitats.

You have 30 calendar days from receipt of this letter to notify us in writing that you would like to consult on this Project. Please provide the lead contact person's contact information in your response. Please contact me as soon as possible if you wish to engage in consultation. My contact information is as follows:



Robert Stein, Assistant City Engineer  
City of Newport Beach  
100 Civic Center Drive  
Newport Beach, CA 92660  
Phone: (949) 644-3322  
E-mail: [rstein@newportbeachca.gov](mailto:rstein@newportbeachca.gov)

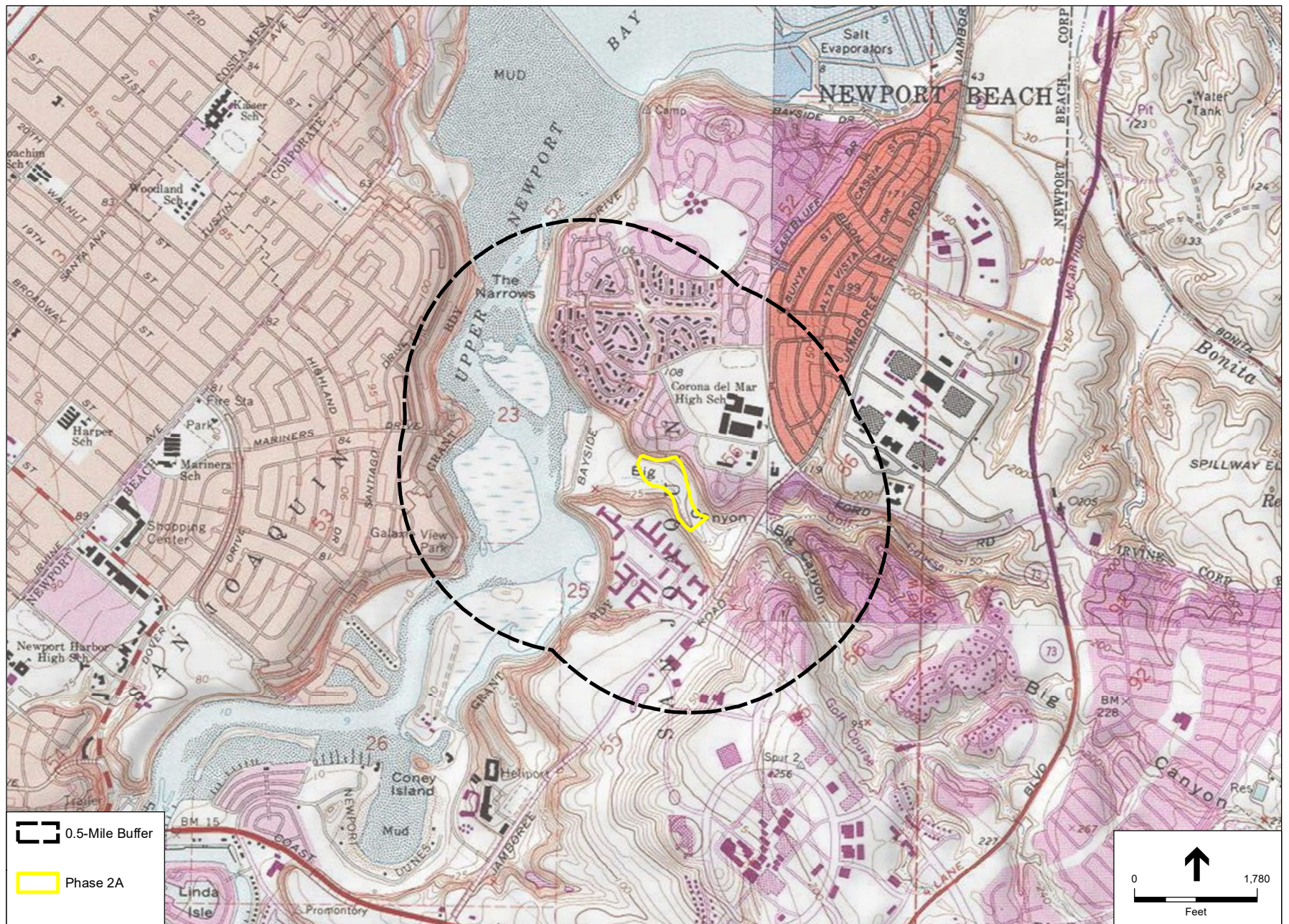
We look forward to working with you should you elect to engage in the consultation process.

Sincerely,

A handwritten signature in blue ink, appearing to be 'RS', with a stylized flourish at the end.

Robert Stein  
City of Newport Beach





Big Canyon Restoration Project, Phase 2a . D171063

**Figure 1**  
Project Map





**CITY OF NEWPORT BEACH**

100 Civic Center Drive  
Newport Beach, California 92660

[newportbeachca.gov](http://newportbeachca.gov)

March 19, 2018

Joyce Stanfield Perry, Tribal Manager  
Juaneño Band of Mission Indians, Acjachemen Nation  
4955 Paseo Segovia  
Irvine, CA 92603

RE: Notice of Proposed Project Pursuant to Public Resources Code Section 21080.3.1  
("AB 52") - **Big Canyon Restoration Project, Phase 2A, City of Newport Beach**

Dear Ms. Perry:

This letter is to inform you that the Newport Bay Conservancy (Conservancy) proposes to implement Phase 2A of the Big Canyon Restoration Project (Project), as described below. As lead agency pursuant to the California Environmental Quality Act (CEQA), the City of Newport Beach (City), recognizing the importance of protecting tribal cultural resources and sacred places, will continue its previous outreach and monitoring efforts initiated in Phase 1 (located immediately upstream of Phase 2A) of the Big Canyon restoration. The Gabrieleño Band of Mission Indians – Kizh Nation conducted cultural resources and archeological monitoring for the duration of all Phase 1 construction-related excavation activities.

The City is now initiating AB 52 outreach for the Phase 2A Project. Per AB 52, the tribe has the right to consult on a proposed public or private project prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report.

The Project is located in the City of Newport Beach, within Orange County, as shown in the attached map (Figure 1). The Phase 2A Project area measures approximately 9.2 acres. The Project would involve restoration planning and design, including invasive plant removal and limited grading, followed by native plant revegetation and management, including possible soil amendment, to restore riparian and upland habitats.

You have 30 calendar days from receipt of this letter to notify us in writing that you would like to consult on this Project. Please provide the lead contact person's contact information in your response. Please contact me as soon as possible if you wish to engage in consultation. My contact information is as follows:

Robert Stein, Assistant City Engineer  
City of Newport Beach  
100 Civic Center Drive  
Newport Beach, CA 92660  
Phone: (949) 644-3322  
E-mail: [rstein@newportbeachca.gov](mailto:rstein@newportbeachca.gov)

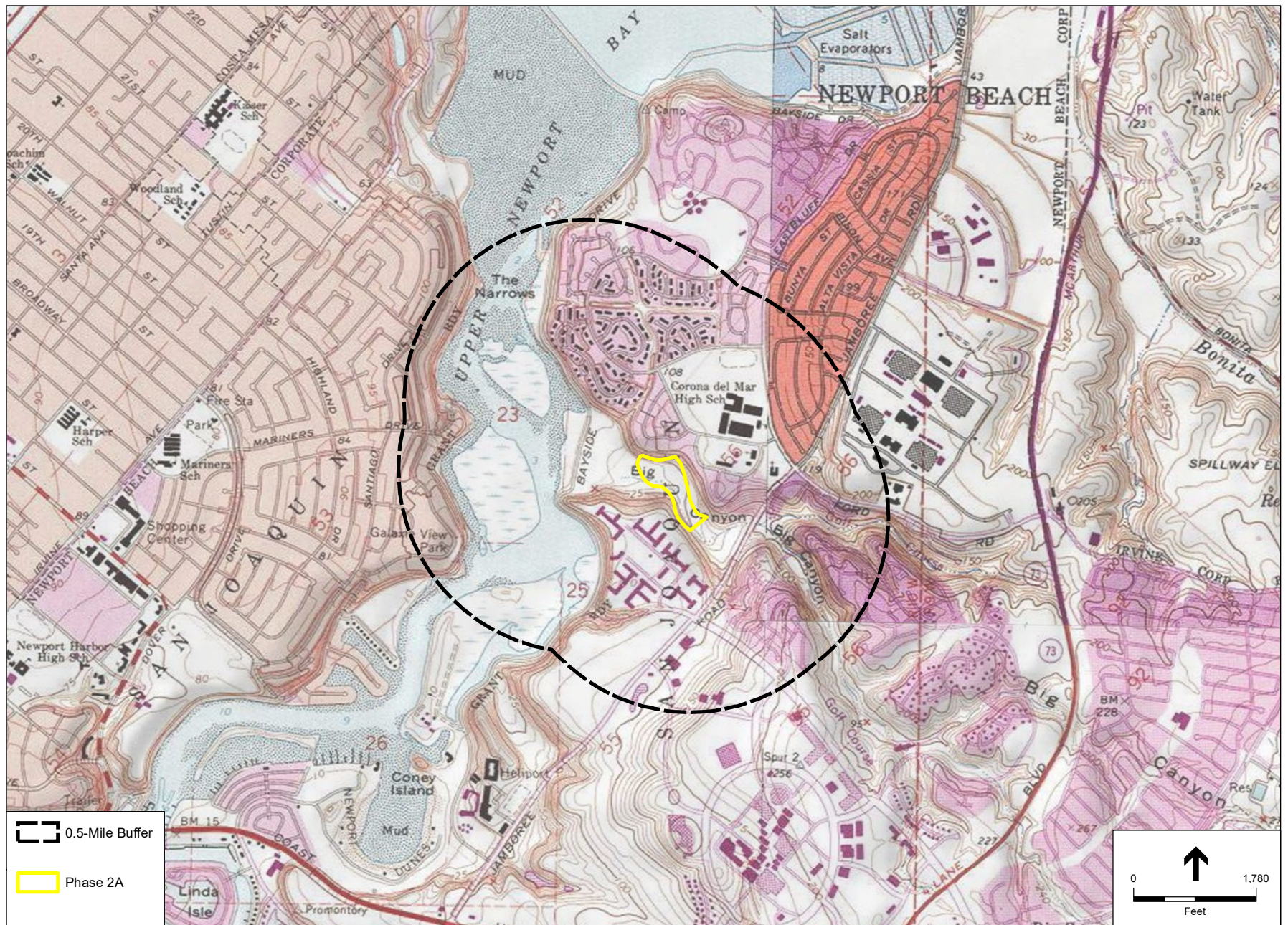
We look forward to working with you should you elect to engage in the consultation process.

Sincerely,

A handwritten signature in blue ink, appearing to be 'RS' with a stylized flourish.

Robert Stein  
City of Newport Beach





Big Canyon Restoration Project, Phase 2a . D171063

**Figure 1**  
Project Map





# GABRIELEÑO BAND OF MISSION INDIANS - KIZH NATION

Historically known as The San Gabriel Band of Mission Indians  
recognized by the State of California as the aboriginal tribe of the Los Angeles basin

City of Newport Beach  
100 Civic Center Dr.  
Newport Beach, CA 92660

March 29, 2018

Re: AB52 Consultation request for the Big Canyon Restoration Project Phase 2A, City of Newport Beach

Dear Robert Stein,

Please find this letter as a written request for consultation regarding the above-mentioned project pursuant to Public Resources Code § 21080.3.1, subd. (d). Your project lies within our ancestral tribal territory, meaning belonging to or inherited from, which is a higher degree of kinship than traditional or cultural affiliation. Your project is located within a sensitive area and may cause a substantial adverse change in the significance of our tribal cultural resources. Most often, a records search for our tribal cultural resources will result in a "no records found" for the project area. The Native American Heritage Commission (NAHC), ethnographers, historians, and professional archaeologists can only provide limited information that has been previously documented about California Native Tribes. This is the reason the NAHC will always refer the lead agency to the respective Native American Tribe of the area because the NAHC is only aware of general information and are not the experts on each California Tribe. Our Elder Committee & tribal historians are the experts for our Tribe and are able to provide a more complete history (both written and oral) regarding the location of historic villages, trade routes, cemeteries and sacred/religious sites in the project area. Therefore, to avoid adverse effects to our tribal cultural resources, we would like to consult with you and your staff to provide you with a more complete understanding of the prehistoric use(s) of the project area and the potential risks for causing a substantial adverse change to the significance of our tribal cultural resources.

Consultation appointments are available on Wednesdays and Thursdays at our offices at 910 N. Citrus Ave. Covina, CA 91722 or over the phone. Please call toll free 1-844-390-0787 or email [gabrielenoindians@yahoo.com](mailto:gabrielenoindians@yahoo.com) to schedule an appointment.

\*\* Prior to the first consultation with our Tribe, we ask all those individuals participating in the consultation to view a video produced and provided by CalEPA and the NAHC for sensitivity and understanding of AB52. You can view their videos at: <http://calepa.ca.gov/Tribal/Training/> or <http://nahc.ca.gov/2015/12/ab-52-tribal-training/>

With Respect,

Andrew Salas, Chairman

Andrew Salas, Chairman

Albert Perez, treasurer

PO Box 393, Covina, CA 91723

Nadine Salas, Vice-Chairman

Martha Gonzalez Lemos, treasurer

[www.gabrielenoindians.org](http://www.gabrielenoindians.org)

Christina Swindall Martinez, secretary

Richard Gradias, Chairman of the Council of Elders

[gabrielenoindians@yahoo.com](mailto:gabrielenoindians@yahoo.com)

**Michael Houlihan**

---

**From:** Stein, Robert <RStein@newportbeachca.gov>  
**Sent:** Thursday, June 21, 2018 12:09 PM  
**To:** Michael Houlihan  
**Cc:** Nova, Makana  
**Subject:** Big Canyon - Phase 2 AB52 consultation  
**Attachments:** letter Kizh Nation.pdf; letter Perry.pdf; letter Morales.pdf

Michael,

The City sent out the three attached letters. Only Kizh Nation responded requesting a consultation.

Robert Stein, PhD, PE  
Assistant City Engineer  
City of Newport Beach  
(949) 644-3322  
[rstein@newportbeachca.gov](mailto:rstein@newportbeachca.gov)

## Memorandum

**To:** Michael Houlihan, ESA Consultants  
**From:** Robert Stein, City of Newport Beach  
**Date:** May 24, 2018  
**Re:** Big Canyon Phase 2 Project Area Site Visit and Consultation with the Gabrieleño Band of Mission Indians – Kizh Nation

---

In response to the City's AB 52 notification letters for Phase 2 of the Big Canyon project, dated March 16, 2018 to the Gabrieleño Band of Mission Indians – Kizh Nation, March 19, 2018 to the San Gabriel Band of Mission Indians, and March 19, 2018 to the Juaneno Band of Mission Indians – Acjacheman Nation, only the Gabrieleño Band of Mission Indians – Kizh Nation responded and requested consultation. Mr. Andy Salas of the Gabrieleño Band of Mission Indians – Kizh Nation was identified as the primary point of contact for the tribe. Mr. Salas also requested a site visit.

On May 17, 2018, I met with Mr. Salas and Mr. Teutimez to walk the Big Canyon Phase 2 project area. We were accompanied on the site walk by Dave Pohl and Scott Holbrook of ESA.

Mr. Salas stated that for past construction projects that include excavation into undisturbed ground, the City of Newport Beach has utilized the research and monitoring expertise and services of the Kizh Nation, during project planning, design and construction. This includes Phase 1 of the Big Canyon Project.

The Cultural Resources Monitoring Report (dated July 3, 2017) for the Phase 1 project (located east of the project site) was prepared by Mr. Salas, and it documents the cultural resources monitoring for the project's construction-related excavation activities (October 17, 2016 to April 25, 2017). The report states that while "ambiguous finds had the potential of being cultural resources, none of the objects were diagnostic and were ultimately deemed non-cultural. No objects were collected and no significant cultural resources were observed."

Through correspondence and prior meetings, Mr. Salas provided compelling evidence indicating that the Kizh Nation are the people that have occupied this area of Orange County for at least 6,000 years. Mr. Andy Salas is the son of Ernie P. Teutimez-Salas, Chief of the Gabrieleño Band of Mission Indians – Kizh Nation, and serves as the Chairperson of Kizh Nation. Mr. Salas has been providing consulting expertise on identifying and protecting tribal cultural resources for over 35 years. Mr. Salas served as monitoring manager for the Big Canyon Restoration Project – Phase 1 and supervised all monitoring work. He was assisted by his cousin, Matt Teutimez, who served as the tribal biologist. Mr. Teutimez visited Big Canyon prior to the Phase 1 construction.

Mr. Salas stated that while no permanent encampments would be found in the canyon, it is likely that there were day camps in the area. Mr. Salas also noted that the nearest Kizh Nation village was located about 3,000 feet away just across the bay near the Santa Isabella Channel (along what is now Irvine Avenue).



Mr. Salas recommended that monitoring during Phase 2 excavation activities would be sufficient for protecting any potential cultural resources that might be uncovered. Mr. Salas and Mr. Teutimez also stated that they would like to collect some of the native plants in the Phase 2 area that have traditional medicinal uses.

During the site visit and other consultation conducted for the project, no known tribal cultural resources were identified. Although no known tribal cultural resources were identified, the City of Newport Beach agreed to have a representative from the Kizh Nation monitor excavation activities along with an archaeologist to reduce potential impacts to archaeological resources. In addition, the City of Newport Beach will include as a condition of approval to allow a representative from the Kizh Nation to collect native plants in the Phase 2 area that are planned to be removed as part of the proposed project.

# WHY THE ORIGINAL INDIAN TRIBE OF THE GREATER LOS ANGELES AREA IS CALLED KIZH NOT TONGVA

by  
E. Gary Stickel, Ph.D (UCLA)  
Tribal Archaeologist  
Gabrieleno Band of Mission Indians/ Kizh Nation

The original Indian Tribe of the greater Los Angeles and Orange County areas, has been referred to variously which has lead to much confusion. This article is intended to clarify what they were called, what they prefer to be called today (Kizh), and what they do not want to be called (i.e. "tongva"). Prior to the invasion of foreign nations into California (the Spanish Empire and the Russian Empire) in the 1700s, California Indian Tribes did not have pan-tribal names for themselves such as Americans are used to (for example, the "Cherokee" or "Navajo" [Dine]). The local Kizh Indian People identified themselves with their associated resident village (such as Topanga, Cahuenga, Tujunga, Cucamonga, etc.). This concept can be understood if one considers ancient Greece where, before the time of Alexander the Great, the people there did not consider themselves "Greeks" but identified with their city states. So one was an Athenian from Athens or a Spartan from Sparta. Similarly the Kizh identified with their associated villages. Anthropologists, such as renowned A.L. Kroeber, a professor at the University of California at Berkeley, who wrote the first "bible" of California Indians (1925), inappropriately referred to the subject tribe as the "Gabrielinos" (Kroeber 1925). The origin of the preferred ethnic name is as follows. When the Spanish invaded the local Indian territory in 1771, they set up their headquarters for occupation at a place now called Whittier Narrows located 15 miles east of downtown Los Angeles. The Spanish built their first mission facility there because it was well-watered by the San Gabriel River and especially because it also had a good number of prominent populous villages (e.g. Shevaanga [Sibangna or Siba], Isantcangna, Houtngna, Ouitchingna, etc.). The Spanish used the people from those villages as slave labor to build the first San Gabriel Mission there at Whittier Narrows. Because the Indian people of the Whittier Narrows area there collectively called themselves "Kizh" (McCawley 1996, 43), the Spanish referred to them as "Kicherenos" – thereby hispanisizing the term with their suffix. The recent-most overview book on the tribe expressed it this way:

" . . . Kizh for the Indians living near San Gabriel (i.e. Whittier Narrows area). . . According to Harrington's (ethnographer J.P. Harrington) consultant Raimundo Yorba, the Gabrielino in the Whittier Narrows area referred to themselves as Kichireno, one of a bunch of people that lived at that place of San Gabriel which is known as Mision Vieja. Kichereno is not a place name, but a tribe name, the name of a kind of people" (Harrington 1986: R129 F345; cited in McCawley 1996, 43).

The word "kizh" itself meant the houses they lived in, most of which were dome-shaped and made with a framework of willow branches and roofed over with thatching (Johnston 1962; McCawley 1996). After just a few years, the first mission compound was washed away by probably El Nino flood conditions. The Spanish then decided to move their outpost five miles north and build a new San Gabriel Mission there in 1774. Once the mission was relocated, the Spanish eventually dropped the use of the term "Kichereno" and replaced it with "Gabrieleno" when referring to the Indians of the area.

Following that origin, the Tribal name of Kizh began with scholars interested in recording the Tribe's language in the form of vocabulary lists. The first such vocabulary was published by John Scouler in his report "N.W. American Tribes" (Scouler 1841, 229, 247-251). However, Scouler referred to the language with the name "San Gabriel" only. The first scholar to publish the Tribal name of "Kizh" was Horatio Hale in 1846 in a United States government report on "Ethnography and Philology." Hale spelled the word as both "Kizh" (p. 143) and as "Kij" (pp. 222, 566) and he also provided a vocabulary list of words in his publication. As was the practice at the time, he meant the word "Kizh" to refer to both the tribe and to its language (as we say today that people speak English in England and German in Germany; Hale 1846, see Attachment A-1). The next scholar to recognize the Tribe's name of "Kizh" was Lieutenant A.W. Whipple (Whipple 1855) who contributed a presentation on a Kizh vocabulary list which was published within a "Report upon the Indian Tribes," in 1855 for the U.S. War Department (Whipple 1855). In it, he acknowledged the earlier work of Hale (1844) and provided his own Kizh vocabulary list (see Attachment A-2). The next year, a German scholar with the name Johann Buschmann published his study of the tribe's language in 1856. He published it in the German "Royal Academy of Science" in Berlin. In concert with Hale (1846) and Whipple (1855), he referred to the Tribe and their language as "Kizh" and used that term for the title of his publication (Buschmann 1856; Attachment A-3). Given that he published his study in the prestigious German Royal Academy of Science, it was a *de facto* recognition by another nation of the Tribe's name of Kizh. In the same year, Robert Gordon Latham published the

name of the Tribe and its language as “Kij” (Latham 1856, 85; Attachment A-4). Four years later, Latham published his “Opuscula, Essays Chiefly Philological and Ethnographical” in which he acknowledged Dr. Coulter’s work at San Gabriel. Latham later again referred to the Tribe and its language as “Kij” (Latham 1860, 304, 305). Since Dr. Latham’s work was published in both England and in Scotland (London and Edinburgh respectively; Attachment A-6), his work was another *de facto* recognition by both England and Scotland of the name of Kizh or Kij as the Tribe’s name. In 1858, Hermann E. Ludewig also published in London a book entitled American Aboriginal Languages (Ludewig 1858). He mentioned Kizh throughout his book (Ludewig 1858, 26, 62, 63, 220, 237 and 250). In it, he acknowledged the previous works on the Kizh language by Hale (1846), Turner (1855), a paper read by Buschmann in 1855 (published by Buschmann 1856), and Scouler’s work published in Whipple (1855; see Attachment A-5). Fifteen years later, the noted scholar Lewis H. Morgan published his “System of Consanguinity and Affinity of the Human Family.” It was published in our national museum, The Smithsonian Institution’s “Contributions to Knowledge.” In it, he mentions various tribes including “...The Mission Indians, namely, the Kizhes of San Gabriel...” (Morgan 1871, 252; Attachment A-7). Six years later, Albert Gatschet, in his “Indian Languages of the Pacific States and Territories,” mentions the “Kizh” (Gatschet 1877, 152, 171; Attachment A-8). The renowned historian Hubert Howe Bancroft (for whom the library at U.C. Berkeley is named) mentioned that one of the native languages of “...southern California...(was the) Kizh...” (Bancroft 1883, 674). Bancroft also mentioned “The Kizh appears to have been spoken, in a slightly divergent dialect, at the Mission of San Fernando...” and provided two versions of the Lord’s Prayer in the two main Kizh dialects (Bancroft 1883, 675-676; Attachment A-9). Next, another scholar named Daniel G. Brinton published “A Linguistic Classification and Ethnographic Description of the Native Tribes of North and South America” in 1891. He also referred to the same tribe as “Kizh” (Brinton 1891, 133; Attachment A-10). Nine years later, David Prescott Barrows published his landmark study “The Ethno-Botany of the Coahuilla Indians of Southern California” (Barrows 1900). In that study he too refers to the Tribe as the “Kizh” (Barrows 1900, 12, 15, 17, 18, 20, 21). Barrows also opined “Mr. Gatschet is in error when he speaks of the Serrano and San Gabriel Indians calling themselves Takhtam and Tobikhar, respectively. The words are unknown as tribal designations among these Indians themselves, and precisely this point constitutes the objections to them” (Barrows 1900, 20; Attachment A-11). Finally, and prior to publishing his landmark 1925 book on the California Indians, A.L. Kroeber published his study of the “Shoshonean Dialects of California” at U.C. Berkeley in 1907. In it he acknowledged the tribal term of “Kizh, also written Kij,” but then used the term “Gabrielino” to refer to the tribe in both that publication and later in his 1925 book (Kroeber 1907, 141; Attachment A-12).

A priest of San Gabriel Mission, Fr. Eugene Sugranes, published a book entitled, “The Old San Gabriel Mission” in 1909. In it he stated, “The language spoken by the San Gabriel Mission Indians was the Kizh. The Lord’s Prayer in the Kizh dialect is as follows...” (Sugranes 1909, 29). Fr. Sugranes verifies that Kizh initially was recognized by the Catholic clergy at San Gabriel Mission, even though they went on to rename them “Gabrielinos”, thereby further degrading the culture of the Kizh (Attachment A-13).

As the above references attest, the scholars of the international academic community recognized the name of “Kizh” as both the name of the Tribe and its language. Also, as noted above, given the presence of the term “Kizh” in four nations’ publications (i.e. in the United States, England, Scotland and Germany), the term was widely recognized and respected in both the 19<sup>th</sup> and early 20<sup>th</sup> centuries. Apparently, when the renowned and highly respected A.L. Kroeber published his major work on California Indian tribes, in which he dropped the use of Kizh and replaced it with Gabrielino, he influenced later scholars, who also disregarded the original term of Kizh. That appellation of “Gabrielino” unfortunately became a standard term for the Tribe with both academics and laymen alike (e.g. Johnston 1962, Bean and Smith 1978 and McCawley 1996).

The tribe today, also known as “The Gabrieleno Band of Mission Indians,” prefers to call themselves with a name which originated with their own language and which is the closest thing to a pan-tribal name that was used by their ancestors historically (at Whittier Narrows). They prefer it to the Spanish derived name of “Gabrielinos” (sic “Gabrielinos”) as that was the name given to them by their conquerors and it is not appropriate today whereas “Kizh” is. The Tribe has published their name in a landmark book about their 18th century hero Toypurina who led a 1785 revolt against the Spanish Empire’s brutal conquest of their territory. That publication is the Tribe’s first book published with its own press: the Kizh Tribal Press (Teutimes, Salas, Martinez and Stickel 2013).

But if Kizh is the preferred tribal name why has the name of “tongva” been used. I shall address that next. Over one hundred years after the tribal name of Kizh was published by Hale (1846), an ethnographer by the name of C. Hart Merriam was studying the tribe’s culture. He interviewed one of the tribe’s female members by the name of Rosemyre at Fort Tejon located today at the beginning of the “Grape Vine” part of the pass through the San Gabriel Mountains north of the tribe’s territory and north of present-day Los Angeles. Merriam asked her what the name of her

tribe was. He did not understand that she could not accurately answer his question as her people did not have such a concept. The current Chairman of the tribe, Andrew Salas, has opined a scenario of how she responded and how Merriam misunderstood her. Mr. Salas thinks Rosemyre responded not with a tribal name *per se* but with her village name—in the manner in which she and her people were accustomed. She responded with the word “Toviscangna”-- which was the name of her home village that was located at Mission San Gabriel (Serra 1778). It is believed that Merriam glitched her response into “Tongva” and wrongfully attributed it as the name of the tribe. Merriam later published his misinterpretation in a paper that he subtitled “A Mortuary Ceremony of the Tong-va of Tejon” (Merriam 1955). Not only did Merriam misinterpret the name for the tribe but he thought the tribe's territory was at “Tejon” when that area was of the Tataviam Tribe (cf. Heizer 1978, ix; Bean and Smith 1978, 538). Unfortunately, the term of “tongva” was promoted by persons claiming to be Gabrieleno Indians. They were so effective at promoting this false concept in the 1980s and 1990s that they not only got the general public to believe it (the term does sound “Indian” as did Tonto of the Lone Ranger fame) but they even got some genuine tribal members to believe it as well (e.g. Rocha and Cook 1982). The perpetrators have also gotten various cities in the greater Los Angeles area to believe the farce of “tongva” to the point where they have named monuments and a park with the false name. The name of Tongva was prominently promoted by one Cindi Alvitre, who has been on the teaching staff of California State University at Long Beach. In an interview with her by the staff of DIG “CSULB's Monthly Student Magazine” posted on the internet on April 9, 2011, Ms. Alvitre stated “The name given to the collective group of Tribes that inhabited what is know CSULB was 'Gabrielino,' given to the group by Spanish settlers. . .” and she went on to state: “The name Tongva is what we've chosen to use in the present which means ‘people of the earth’... There was no one tribe called 'Tongva' ” (Alvitre 2011; Attachment A-14). As to the probable true meaning of the word, the renowned early ethnographer J.P. Harrington recorded an ethnographic Gabrieleno note in which he stated “...Tongva means where the people used to grind their seeds on the rocks” (Harrington, Microfilm Reel 5, p. 426; see Attachment A-14). Therefore, the term “tongva” was mistakenly attributed as a word meaning “the tribe” when, according to Harrington, the word does not mean tribe but what archaeologists call a “bedrock mortar” or a rock outcrop with holes in it created by Indians pounding pestles into them to process acorns and other plant products.

The above discussion has hopefully shown that the term “Kizh” is the appropriate name for the original tribe that inhabited the greater Los Angeles area whereas “tongva” is an illegitimate word for the tribe. Because the perpetrators have been so successful in promoting the false concept, it will take a great deal of “damage control” to correct all the mistaken usages of the false word and replace it with the most legitimate one of “Kizh.”

### Acknowledgments

The author would like to acknowledge the useful research assistance the Arthur Mgebrov provided to this article. His literature search disclosed several scholarly references included in this paper. Also the assistance of James Flaherty, who helped produce this paper, is gratefully appreciated.

### References Cited:

Alvitre, Cindi

2011 Is CSULB really in Indian Burial Ground? Interview by Lauren Williams for DIG, CSULB's Monthly Student Magazine. Posted on the Internet on April 9, 2011.

Bancroft, Hubert Howe

1883 Shoshone Languages in The Works of Hubert Howe Bancroft, Vol. III Myths and Languages, Bancroft and Company, San Francisco.

Barrows, David Prescott

1900 The Ethno-botany of the Coahuilla Indians of Southern California. University of Chicago Press, Chicago.

Bean, Lowell John and Charles R. Smith

1978 Gabrielino. In Handbook of the North American Indians, Vol. 8 California, edited by R. F. Heizer, Smithsonian Institution, Washington D.C. pp. 538-549.

Brinton, Daniel G.

1891 The American Race: a Linguistic Classification and Ethnographic Description of the native Tribes of North and South America. N.D.C. Hodges, publisher, New York.

Buschmann, Johann Carl

1856 The Kizh and Netela Languages of new California. The Press of the Royal Academy of Sciences, Berlin, Germany.

Gatschet, Albert S.

1877 Indian Languages of the Pacific States and Territories. Magazine of American History, Vol. 1, No. 3, pp. 150-171.

Hale, Horatio

1846 Ethnography and Philology. In United States Exploring Expedition during the years 1838, 1839, 1840, 1841, 1842, Vol. VI, Printed by C. Sherman, Philadelphia.

Harrington, J. P.

n.d. Notes on the Gabrielino word "tongva," Harrington notes on file at the U.S. Archives, Reel 5, p. 426. Washington, D.C.

Heizer, Robert F.

1978 Handbook of the North American Indians, Vol. 8 California, Smithsonian Institution, Washington D.C.

Johnston, Bernice

1962 California's Gabrielino Indians. Southwest Museum, Los Angeles, California.

Kroeber, A.L.

1907 Shoshonean Dialects of California. University of California Publications, American Archaeology and Ethnology, Vol. 4, No. 3., Berkeley.

1925 Handbook of the Indians of California. Bureau of American Ethnology, Bulletin 78, Washington, D.C.

Latham, Robert Gordon

1856 Central America. Transactions of the Philological Society. Published by George Bell, London.

1860 On the Languages of New California. In Opuscula – Essays Chiefly Philological and Ethnographical by Robert Gordon Latham (of Cambridge and University College, London). Published by Williams & Norgate, London and Edinburgh.

Ludewig, Hermann E.

1858 American Aboriginal Languages. Trübner and Co., London.

McCawley, William

1996 The First Angelinos, the Gabrielino Indians of Los Angeles. Malki Museum Press, Banning.

Merriam, C. Hart

1955 The Ko-too-mut Ke-hi-ah or Fiesta for the Dead, a Mortuary Ceremony of the Tong-va of Tejon. In Studies of California Indians, University of California Press, Berkeley and Los Angeles, pp. 77-86.

Morgan, Lewis H. Morgan

1871 Systems of Consanguinity and Affinity of the Human Family, in Smithsonian Contributions to Knowledge, Vol. XVII, Smithsonian Institution, Washington, D.C.

Rocha, Vera and Charles Cook

1982 Application for Shevangna for the Sacred Lands File. Document on file at the Native American Heritage Commission, Sacramento.

Scouler, John

1841 N.W. American Tribes. In The Journal of the Royal Geographical Society of London, published by John Murray, Albemarle Street, London.

Serra, Junipero

1778 A document entitled "Confirmaciones" which mentions "Toviscanga" and is signed by Fr. Serra. On file at Mission San Gabriel, City of San Gabriel.

Sugranes, Eugene C.M.F.

1909 The Old San Gabriel Mission. San Gabriel Mission Press, San Gabriel.

Teutimes, Ernest, Andrew Salas, Christina Swindall-Martinez and Gary Stickel

2013 Toypurina, the Joan of Arc of California. Kizh Tribal Press, San Gabriel.

Whipple, Lieut. A.W.

1855 Vocabularies of North American Languages. *In* Report upon the Indian Tribes by Lieut. A.W. Whipple, Thomas Ewbank, and W.W. Turner. War Department, Washington D.C.

# Attachment A-1

## UNITED STATES EXPLORING EXPEDITION.

DURING THE YEARS

1838, 1839, 1840, 1841, 1842.

UNDER THE COMMAND OF

CHARLES WILKES, U. S. N.

VOL. VI.

---

## ETHNOGRAPHY AND PHILOLOGY.

BY

HORATIO HALE,

PHILOLOGIST OF THE EXPEDITION.

---

PHILADELPHIA:

PRINTED BY C. SHERMAN.

1846.

lumbia to San Francisco. This was about sixty miles south of the Shasty country. Mr. Dana, to whom I owe the vocabulary which is given of this language, observes, in his note to me: "The natives seen on reaching the Sacramento plains, resemble the Shasty Indians in their regular features. They have thick black hair descending low on the forehead, and hanging down to the shoulders. The faces of the men were colored with black and red paint, fancifully laid on in triangles and zigzag lines. The women were tattooed below the mouth. They were a mirthful race, always disposed to jest and laugh. They appeared to have had but little intercourse with foreigners. Their only arms were bows and arrows,—and in trading they preferred mere trinkets, such as beads and buttons, to the blankets, knives, and similar articles which were in request among the northern Indians."

Still farther south, about one hundred miles above the mouth of the Sacramento, Mr. Dana obtained vocabularies of the dialects of four tribes,—the *Puzhune*, *Sekamne*, *Tsamak*, and *Talatui*. He says of them:—"These Indians have the usual broad face and flattened nose of the coast tribes. The mouth is very large, and the nose broad and depressed. They are filthy in their habits and stupid in look, like the Chinooks. Throughout the Sacramento plains the Indians live mostly on a kind of bread or cake made of acorns. The acorns, after the shell is removed, are spread out and dried in the sun, then pounded with a stone pestle to a fine powder, and afterwards kneaded into a loaf about two inches thick, and baked. It has a black color, and a consistency like that of cheese, but a little softer; the taste, though not very pleasing, is not positively disagreeable."

Five vocabularies are given of idioms spoken by the natives of California, who were formerly under the control of the Spanish missions. The first of these was taken at San Rafael, on the north side of the bay of San Francisco, in about latitude  $38^{\circ} 10'$ . The second is of La Soledad, near the coast, in latitude  $36^{\circ}$ . The third of San Miguel, about fifty miles to the southeast of the last-mentioned. The fourth of San Gabriel (the *Kij*), in latitude  $34^{\circ}$ ; and the fifth of San Juan Capestrano, (the *Netēla*), twenty miles further down the coast. The "missions" are large square enclosures, surrounded by high walls of *adobes* or unburnt bricks. Around the inside are cells, which served as dormitories to the natives. The latter were collected at first, partly by persuasion and partly by force, into these missions, and employed there in agriculture and various simple arts, in which



The following examples will give some idea of the system of transitions in this language, and of the extraordinary changes which the words undergo. It certainly would not be supposed, without such evidence, that *himkunīti* and *tatētāt* were merely inflections of the same verb.

*tçitāpatçitūp maha*, I love thee  
*tçitapintçuō kōk*, I love him  
*himtāpintçiwāta tçii kak*, he loves me  
*hintçitapintçiwata tçii*, dost thou love me?

*tçihōtatçop tçii*, I see thee  
*chōton tçii*, I see him  
*himkuhōton kōk*, dost thou see him?  
*himkuhutotçōfon tçii*, dost thou see me?  
*himkuhōton kinuk*, dost thou see them?  
*kinuk himkunhōton*, do they see thee?

*sīt kōk*, give him  
*çiteto solo*, give us  
*çinēti kinuk*, give them  
*ēia putētip maha kуска kēutan?* who gave thee that horse?  
*çimma wala kotētāt tçii*, my father gave it to me  
*medji tikūmti*, to-morrow I will give it to him  
 “ *takūmti çimma*, thou wilt give it to my father  
     *kitētāt*           he will give it to me  
     *tatētāt*           thou wilt give it to me  
     *titētip*           I will give thee  
     *kitētiūp*          he will give thee  
*ēia himkunīti*, to whom didst thou give it?  
     *himti çimma*, I gave it to my father  
*wayk tçii keek timyēti*, I do not wish to give it to thee?

Of the remaining vocabularies little can be said beyond what may be gathered from the vocabularies. In the languages of Kij and Netēla a few examples of plural and pronominal forms were obtained, which may be worth preserving.

#### K I J.

|                         |                      |                         |                                        |
|-------------------------|----------------------|-------------------------|----------------------------------------|
| <i>worōit</i> , man     | pl. <i>wororōt</i>   | <i>tokōr</i> , woman    | pl. <i>totōkor</i>                     |
| <i>kītç</i> , house     | pl. <i>kikitç</i>    | <i>paitçuar</i> , bow   | pl. <i>papaitçuar</i>                  |
| <i>haiç</i> , mountain  | pl. <i>hahaiç</i>    | <i>wasi</i> , dog       | pl. <i>wausi</i> (qu. <i>wāwasi</i> ?) |
| <i>içot</i> , wolf      | pl. <i>içičot</i>    |                         |                                        |
| <i>tihōrwait</i> , good | pl. <i>tiriwait</i>  | <i>mohai</i> , bad      | pl. <i>momohai</i>                     |
| <i>tçinui</i> , small   | pl. <i>tçitçinui</i> | <i>arawātai</i> , white | pl. <i>rawānūt</i>                     |
| <i>yupixa</i> , black   | pl. <i>yupinūt</i>   | <i>kwauōxa</i> , red    | pl. <i>kwauōnūt</i>                    |

*ninak*, my father

*ayōinak*, our father

# SYNOPSIS.

| FAMILIES.                  |                                                                         | LANGUAGES.                        | DIALECTS.                                                                                                                    |                                                 |
|----------------------------|-------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1. Tahkali-Umkwa . . . . . | {                                                                       | A. Tahkali (Carriers)             | { a. Tlatskanai<br>b. Kwalhioqua                                                                                             |                                                 |
| 2. Kitunaha . . . . .      |                                                                         | B. Tlatskanai . . . . .           |                                                                                                                              |                                                 |
| 3. Tsihaili-Selish {       |                                                                         | C. Umkwa (Umpqua)                 | { c. Kullespelm (Ponderays)<br>d. Tsakaititlin (Spokan Inds.)<br>e. Soaiatipi (Kettle-falls, &c.)                            |                                                 |
|                            |                                                                         | 2. Kitunaha . . . . .             |                                                                                                                              | D. Kitunaha (Coutanies, Flat-bows)              |
|                            |                                                                         | Northern Branch {                 |                                                                                                                              | E. Shushwapumsh (Shushwaps, Atnahs)             |
|                            |                                                                         |                                   |                                                                                                                              | F. Selish (Flatheads) . . . . .                 |
|                            |                                                                         |                                   |                                                                                                                              | G. Skitsuish (Cœur d'alène)                     |
|                            |                                                                         |                                   | H. Piskwaus (Piscous)                                                                                                        |                                                 |
|                            |                                                                         | Middle Branch .                   | I. Skwale (Nasqually)                                                                                                        |                                                 |
|                            |                                                                         | Western Branch {                  | J. Tsihailish (Chickailis, Chilts) . . .                                                                                     | { f. Tsihailish<br>g. Kwaiantl<br>h. Kwenaiwitl |
|                            |                                                                         |                                   | K. Kawelitsk (Cowelits)                                                                                                      |                                                 |
|                            |                                                                         | Southern Branch                   | L. Nsietshawus (Killamuks)                                                                                                   |                                                 |
| 4. Sahaptin . . . . .      |                                                                         | M. Sahaptin (Nez-Perçés)          | { i. Pelus (Pelooses)<br>j. Jaakema (Yakemas)<br>k. Tlakatat (Klikatats)                                                     |                                                 |
| 5. Waiilatpu . . . . .     | N. Walawala (Wallawallas) . . . . .                                     |                                   |                                                                                                                              |                                                 |
|                            | O. Waiilatpu (Willetpoos, Cayuse)                                       |                                   |                                                                                                                              |                                                 |
| 6. Tshinuk . . . . .       | {                                                                       | Q. Watlala (Upper Chinooks) . . . | { l. Watlala (Cascade Inds.)<br>m. Nihaloitih (Echeloots)<br>n. Tshinuk<br>o. Tlatsap (Clatsops)<br>p. Wakaikam (Wahkyecums) |                                                 |
|                            |                                                                         | R. Tshinuk (Chinooks) . . . . .   |                                                                                                                              |                                                 |
|                            | 7. Kalapuya . . . . .                                                   | S. Kalapuya . . . . .             |                                                                                                                              | { q. Kalapuya<br>r. Tuhwalati (Follaties)       |
| 8. Iakon . . . . .         | T. Iakon (Lower Killamuks)                                              |                                   |                                                                                                                              |                                                 |
| 9. Lutuami . . . . .       | U. Lutuami (Tlamatl, Clamets)                                           |                                   |                                                                                                                              |                                                 |
| 10. Saste . . . . .        | V. Saste (Shasties)                                                     |                                   |                                                                                                                              |                                                 |
| 11. Palaihnih . . . . .    | W. Palaihnih (Palaiks)                                                  |                                   |                                                                                                                              |                                                 |
| 12. Shoshoni . . . . .     | { X. Shoshoni (Shoshonees, Snakes)<br>Y. Wihinasht (Western Shoshonees) |                                   |                                                                                                                              |                                                 |
| 13. Satsikaa . . . . .     | Z. Satsikaa (Blackfeet)                                                 |                                   |                                                                                                                              |                                                 |
| 14. Nootka . . . . .       | Kwoneatshatka (Newitsee)                                                |                                   |                                                                                                                              |                                                 |
| 15. ? . . . . .            | San Raphael                                                             |                                   |                                                                                                                              |                                                 |
| 16. Kizh . . . . .         | San Gabriel                                                             |                                   |                                                                                                                              |                                                 |
| 17. Netela . . . . .       | San Juan Capestrano                                                     |                                   |                                                                                                                              |                                                 |

EXPLORATIONS AND SURVEYS FOR A RAILROAD ROUTE FROM THE MISSISSIPPI RIVER TO THE PACIFIC OCEAN.  
WAR DEPARTMENT.

---

ROUTE NEAR THE THIRTY-FIFTH PARALLEL, UNDER THE COMMAND OF LIEUT. A. W. WHIPPLE,  
TOPOGRAPHICAL ENGINEERS, IN 1853 AND 1854.

---

REPORT  
UPON  
THE INDIAN TRIBES,

BY  
LIEUT. A. W. WHIPPLE, THOMAS EWBANK, ESQ., AND PROF. WM. W. TURNER.

---

WASHINGTON, D. C.,  
1855.

---

words are from a manuscript vocabulary taken by the Hon. John R. Bartlett, while engaged on the Mexican Boundary Survey; the Netela and Kizh are from Hale's Philology of the Exploring Expedition.

|              | CAHUILLO.         | KECHI.<br>(San Luis Rey.) | NETELA.<br>(San Juan Capistrano.) | KIZH.<br>(San Gabriel.) |
|--------------|-------------------|---------------------------|-----------------------------------|-------------------------|
| Father.....  | ne'-na (my).....  | peh-nah' (his).....       | nanā .....                        | anāk                    |
| Mother ..... | ne'-yih .....     | peh-yo' .....             | noyō.....                         | āōk                     |
| Head.....    | ni-yul'-uka ..... | po-ya' .....              | nuyū .....                        | apoān                   |
| Ear.....     | na-nock'-a.....   | no-nak' .....             | nanakūm.....                      | anāna, nājas            |
| Eye.....     | na'-push .....    | pu-sun'-o-push....        | nopūlum .....                     | atshotshon              |
| Nose .....   | ne'-mu .....      | ne-ma'-bi.....            | nomūūum.....                      | comēpin, mūpin          |
| Arm.....     | ne-mōk .....      | no-ma' .....              | namā.....                         | amān, mān               |
| Heart .....  | ne'-sun.....      | no-shōn.....              | nosūn .....                       | ahūng, sūn              |
| Blood .....  | ne'-o.....        | no-ōh .....               | noō'.....                         | akhain                  |
| Chief.....   | net'-i .....      | nōt.....                  | nōt.....                          | tomēr                   |
| House .....  | kish .....        | ki'-cha.....              | nikī.....                         | kītsh, kīn              |
| Arrow .....  | hul .....         | no-hu'.....               | hul .....                         | tshūar, nihūn           |
| Bow .....    | chu-quil'-no-pish | kō-to-pis.....            | kūtupsh .....                     | páitkhūar, páitōkh      |
| Sun.....     | ta'-mit .....     | te-met' .....             | temét.....                        | tāmet                   |
| Moon.....    | men'-yil .....    | moi-la.....               | mo-ī'l .....                      | mō-ār                   |
| Fire .....   | cūt.....          | kūt .....                 | mughāt.....                       | tshāwot, tōina          |
| Water.....   | pal.....          | pa-la .....               | pāl.....                          | bar                     |
| Bear.....    | hu'-nu-it .....   | hu'-nu-it .....           | hūnot .....                       | hūnar                   |
| Deer.....    | su'-quut .....    | su-kūt.....               | sukot.....                        | shukāt                  |
| Wolf.....    | is-o-wit.....     | i-sunt .....              | īsoť .....                        | īshot, Isot             |
| Dog .....    | a'-wūl.....       | a-wal' .....              | aghwāl .....                      | wausī, wasi             |
| I .....      | neh .....         | no .....                  | no.....                           | noma                    |
| Thou.....    | eh.....           | om .....                  | om .....                          | oma                     |
| He.....      | peh .....         | w'nal .....               | wanāl .....                       | ahē, pa-e               |
| One.....     | su'-pli.....      | su-pul.....               | pukū .....                        | pukū                    |
| Two.....     | me-wi' .....      | weh .....                 | wehē .....                        | wehē                    |
| Three .....  | me-pa'.....       | pai.....                  | pāhe.....                         | pāhe                    |
| Four.....    | me-wi'-chu.....   | wah-sah' .....            | watsā .....                       | watsā                   |

It will be observed that, in those languages of the Shoshonee family which we have been considering, the place of the accent is reckoned, not from the end, as in the classical tongues, but from the *beginning* of the word. In Comanche the accent is on the first syllable, with but few exceptions, as when a possessive pronoun is prefixed. Sometimes there is a secondary accent; this appears, for the most part, when the word contains more than four syllables, and is generally placed on the fifth from the beginning, as *te'-ith-tis-chi-ho'-no*, valley. In Chemehuevi and Cahuillo the accent is less regular: but in the former it is usually on the second syllable; and in the latter, on the first.

A-3

# KIZH UND NETELA

VON

NEU-CALIFORNIEN

DARGESTELLT

VON

JOH. CARL ED. BUSCHMANN.

AUS DEN ABHANDLUNGEN DER KÖNIGL. AKADEMIE DER WISSENSCHAFTEN  
ZU BERLIN 1855.



BERLIN

GEDRUCKT IN DER DRUCKEREI DER KÖNIGL. AKADEMIE  
DER WISSENSCHAFTEN

1856.

IN COMMISSION BEI F. DÜMMLER'S VERLAGS-UCHHANDLUNG.

den SCHOSCHONEN (p. 219<sup>a</sup>), bemerkt: „man wird auch sehn, daß das Wortverzeichnis des von den *Netela*-Indianern an der Küste von Californien, unter dem 34ten Breitegrade, gesprochenen Idioms *shows evident traces of connexion with the Shoshoni*;" und an einer späteren Stelle, bei den zwei californischen Sprachen selbst (567<sup>mm</sup>), heisst es: „Die Ähnlichkeit zwischen vielen Wörtern in diesen 2 Sprachen (*Kij* und *Netela*) und im *Shoshoni* geht deutlich genug aus einer Vergleichung der Wortverzeichnisse hervor. Die Ähnlichkeit ist zu groß, als daß man sie einem bloßen zufälligen Verkehr zuschreiben könnte; aber es ist zweifelhaft, ob die Erscheinung uns berechtigt sie als Zweige derselben Familie hinzustellen."

## §. 466.

## WORTVERZEICHNISS

der KIZH- und NETELA-Sprache

## A. Substantiva, Adjectiva und Verba

|               | <u>KIZH</u><br>(San Gabriel)     | NETELA<br>(San Juan Capistrano) |
|---------------|----------------------------------|---------------------------------|
| alive         | <i>yait</i>                      |                                 |
| arm           | <i>a-mūn, mūn</i>                | <i>na-mū</i>                    |
| arrow         | <i>tschūar, ni-hūn, G toūarr</i> | <i>hul, G ūl</i>                |
| bad           | <i>mohörūi, mōhai, G chaītē</i>  | <i>hūtoigötō</i>                |
| bear          | <i>hūnar</i>                     | <i>hūnot</i>                    |
| beard         | <i>aōng, pehen</i>               | <i>nu-mūs</i>                   |
| bird          | <i>amūscharot</i>                | <i>chéymat</i>                  |
| black         | <i>yupīxa, yomāxpe, G yupixa</i> | <i>yaōátχnot, G yūbūtexanut</i> |
| blood         | <i>axain</i>                     | <i>no-ó (no=ó)</i>              |
| blue          | <i>saschūsscha</i>               |                                 |
| boat f. canoe |                                  |                                 |
| body          | <i>G a-tatax</i>                 | <i>G pē-tūxo</i>                |
| bone          | <i>a-ént, ēan</i>                | <i>no-hūksēn</i>                |

*whether the evidence which it affords will justify us in classing them together as branches of the same family.* Diese ganze Stelle ist, bis auf ein paar Buchstaben, vom ersten Worte bis zum letzten, aus Vol. VI. der *expl. exp.* (p. 567<sup>mm-mf</sup>) wiederholt. Von einem Urtheile Gallatin's über die *Kij*- und *Netela*-Sprache kann also nicht die Rede seyn.

A-4

TRANSACTIONS  
OF THE  
PHILOLOGICAL SOCIETY  
1856.

1856

PUBLISHED FOR THE SOCIETY  
BY GEORGE BELL, 186, FLEET STREET,  
London.

2264/63/23

| ENGLISH.           | COCONOONS.   | TULARE. |
|--------------------|--------------|---------|
| <i>day</i> .....   | hial .....   | tahoh*. |
| <i>fire</i> .....  | sottol ..... | ossel.  |
| <i>water</i> ..... | illeck ..... | illick. |

XI. THE SALINAS GROUP.—This is a name which I propose for a group of considerable compass, and one which contains more than one mutually unintelligible form of speech. It is taken from the river Salinas, the drainage of which lies in the counties of Monterey and San Luis Obispo. The southern boundary of Santa Cruz lies but a little to the north of its mouth.

The Gioloco may possibly belong to this group, notwithstanding its reference to the Mission of San Francisco. The *alla*, and *mut-* (in *mut-ryocuse*), may = the *ahay* and *i-mit-a* (*sky*) of the Eslen.

The Ruslen has already been mentioned, and that in respect to its relations to the Costano. It belongs to this group.

So does the Soledad of *Mofras*; which, though it differs from that of Hale in the last half of the numerals, seems to represent the same language.

So do the Eslen and Carmel forms of speech; allied to one another somewhat more closely than to the Ruslen and Soledad.

So do the San Antonio and San Miguel forms of speech.

The Ruslen, Eslen, San Antonio, and San Miguel are, probably, four mutually unintelligible languages.

The Salinas languages are succeeded to the south by the forms of speech of—

XII. THE SANTA BARBARA GROUP—containing the Santa Barbara, Santa Inez, and San Luis *Obispo* languages.

XIII. THE CAPISTRANO GROUP.—Capistrano is a name suggested by that of the Mission of San Juan Capistrano. The group, I think, falls into two divisions:—

1. *The Proper Capistrano, or Netela*, of San Luis *Rey* and San Juan Capistrano.

2. *The San Gabriel, or Kij*, of San Gabriel and San Fernando.

\* Same word as *taech* = *light* in Coconoons; in Pima *tai*.



# AMERICAN ABORIGINAL LANGUAGES.

BY

HERMANN E. LUDEWIG.

---

WITH ADDITIONS AND CORRECTIONS

BY PROFESSOR WM. W. TURNER.

---

EDITED BY NICOLAS TRÜBNER.

LONDON:

TRÜBNER AND CO., 60, PATERNOSTER ROW.

MDCCCLVIII.

## QUICHUA.

Barcia-Pinelo mentions "JUAN DE VEGA, Arte e Rudimentos de Gramatica Quichua. Impreso en Lima;" and states that "FR. MARTIN DE VICTORIA, del Orden de la Merced, fue el primero que redujo à arte la lengua del Inca."

## RICCAREES.

Riccree Vocabulary, pp. 348—352 of: Die Indianer Nord Amerika's und die während eines achtjährigen Aufenthalts unter den wildesten ihrer Stämme erlebten Abenteuer und Schicksale, von G. Catlin. Nach der fünften englischen Ausgabe deutsch herausgegeben von Dr. Heinrich Berghaus. Mit 24 vom Verfasser nach der Natur entworfenen Gemälden. Zweite Ausgabe. *Brüssel*, Muquardt, 1851, 8vo, pp. 382.

## RUMSEN.

[A. F. POTT, Die quinare und vigesimale Zählmethode. On the numerals, p. 63. —W. W. T.]

## SAHAPTIN.

[Dr. SCOULER's Vocabularies are printed also in the *Edinburgh New Philosophical Journal*, Vol. XLI, pp. 190—192.

J. HOWSE, Vocabularies of certain North American Languages, in: *Proceedings of the Philological Society of London*, Vol. IV. Okanagan Vocabulary, pp. 199—204.—W. W. T.]

SAN GABRIEL, KIZH.

Californian Indians, mentioned already under "Diegeños," pp. 62, 63, to which add—

JOH. CARL ED. BUSCHMANN, Die Sprachen Kizh und Netela von Neu Californien. Abhandlung gelesen in der Berliner Akademie der Wissenschaften, October 25, 1855, pp. 501—531 of the "Abhandlungen der Philosophisch-historischen Klasse" of said Academy for 1855, and with separate title. *Berlin*, Dümmler, 1856, 4to.

SAN JUAN CAPISTRANO, ACAGCHEMEM,  
NETELA.

Californian Indians, for which see the article "Diegeños," pp. 62, 63, adding—

JOH. CARL ED. BUSCHMANN, Die Sprachen Kizh und Netela von Neu Californien. Abhandlung gelesen in der Berliner Akademie der Wissenschaften, October 25, 1855, pp. 501—531 of the "Abhandlungen der Philosophisch-historischen Klasse" of said Academy, 1855, and with separate title. *Berlin*, Dümmler, 1856, 4to.

—629, in: HOR. HALE, *Ethnography and Philology of the United States Exploring Expedition. Philadelphia, Lea and Blanchard, 1846, folio. Ibid.*, pp. 533, 634: Vocabulary of Languages spoken at the Missions, "*La Soledad and San Miguel.*"

Nos. 15, 16, 17, reprinted under U, p. 128, of the Vocabularies in Vol. II of: Transactions of the American Ethnological Society. The words of the Missions: *La Soledad and San Miguel, ibid.*, p. 126.

Twenty-eight Words of *Netela* and *Kizh* compared with *Cahuillo* and *Kechi*, by PROFESSOR W. W. TURNER, p. 77 of: Report upon the Indian Tribes, added to Lieutenant A. W. Whipple's Report (in Vol. II of the Pacific Railroad Reports. *Washington, 1855, 4to*).

Des Langues *Kizh* et *Netela* de la Nouvelle-Californie, by DR. BUSCHMANN, in: Monthly Report of the Royal Academy of Sciences of Berlin, for September and October, 1855.

Diegeño and English Vocabulary, taken by LIEUTENANT A. W. WHIPPLE from Tomaso, the chief the Tribe, pp. 5, 6, of Lieutenant A. W. Whipple's Extract from a Journal of an Expedition from San Diego, California, to the Rio Colorado, from September 11 to December 11, 1849. (Congress Documents, 31 Congress, Second Session, Senate Executive Documents, No. 19). Reprinted, pp. 95 to 101, and Diegeño numerals, by Lieutenant W. A. Whipple, compared with those given by Dr. Scouler, pp. 103 of: Lieutenant A. W. Whipple's Report upon the Indian Tribes, etc. (Vol. II of Pacific Railroad Reports. *Washington, 1855, 4to*). Also reprinted on pp. 103, 104 of: Schoolcraft's Indian Tribes of the United States, Vol. II.

Twenty-eight *Kechi* Words (from BARTLETT) compared with *Cahuillo*, *Netela*, and *Kizh*, p. 77 of: Report upon the the Indian Tribes, added to Lieutenant A. W. Whipple's Report (Vol. II of Pacific Railroad Reports. *Washington, 1855, 4to*).

Vocabularies of the Deguino or Comeya, at San Diego; *Kechi*, at San Luis Rey and San Luis Obispo, have been taken by JOHN R. BARTLETT, the United States Boundary Commissioner.

See also under *Californians* and *Cahuillos*.

## DELAWARE, LENAPE, LENNO-LENAPE.

Belonging to the Algonquin stock. The following are mentioned as the three original tribes:—1. The *Unami*, or *Wanami* (Turtle tribe) 2. The *Unalachtgo* (Turkey tribe). 3. *Minsi*, *Ministi*, or *Munseyi* (Wolf tribe).

### WORDS AND VOCABULARIES.

HERVAS, Vocabolario Poliglotta, p. 240 (numerals, etc.)

SMITH BARTON, New Views, etc.—Comparative Vocabularies, and "Specimen of a Comparison of the Languages of the Delaware Stock and those of the Six Nations." *Ibid.*, Appendix, p. 20.

In the vocabularies he gives also *Canestoga* (or *Susquehannocs*) words.

A-6

OPUSCULA.

ESSAYS

CHIEFLY

PHILOLOGICAL AND ETHNOGRAPHICAL

BY

ROBERT GORDON LATHAM,

M.A., M.D., F.R.S., ETC.

LATE FELLOW OF KINGS COLLEGE, CAMBRIDGE, LATE PROFESSOR OF ENGLISH  
IN UNIVERSITY COLLEGE, LONDON, LATE ASSISTANT PHYSICIAN  
AT THE MIDDLESEX HOSPITAL.

WILLIAMS & NORGATE,

14 HENRIETTA STREET, COVENT GARDEN, LONDON

AND

20 SOUTH FREDERICK STREET, EDINBURGH.

LEIPZIG, R. HARTMANN.

1860.

## MISCELLANEOUS AFFINITIES.

|                      |                      |                      |                         |
|----------------------|----------------------|----------------------|-------------------------|
| <i>English</i> ..... | man.                 | Watlala .....        | <i>tklaleq.</i>         |
| Jakon .....          | <i>kalt.</i>         | Chinook .....        | <i>waleq.</i>           |
| Selish .....         | <i>skalt-amekho.</i> | Chickaili .....      | <i>khaaq.</i>           |
| Skitsuish .....      | <i>skaitl-emukh.</i> | Skwale .....         | <i>stklatlakl-adai.</i> |
| Piscous .....        | <i>skaltamikho.</i>  | Muskoghe .....       | <i>okulosoha.</i>       |
| <i>English</i> ..... | woman.               | <i>English</i> ..... | child.                  |
| Jakon .....          | <i>tklaks.</i>       | Jakon .....          | <i>mohaite.</i>         |
| Wallawalla .....     | <i>tilaki.</i>       | Shahaptin .....      | <i>miaots.</i>          |
| Watlala .....        | <i>tklkakilak.</i>   | <i>English</i> ..... | mother.                 |
| Chinook .....        | <i>tklakel.</i>      | Jakon .....          | <i>tkhla.</i>           |
| Cayoose .....        | <i>pin-tkhlaui.</i>  | Chinook .....        | <i>tkhlianaa.</i>       |
| Molele .....         | <i>longi-tklai.</i>  | <i>English</i> ..... | husband.                |
| Killamuk .....       | <i>sui-tklats.</i>   | Jakon .....          | <i>sonsit.</i>          |
| Shushwap .....       | <i>somo-tklitck.</i> | Chikaili .....       | <i>cineis.</i>          |
| Cootanie .....       | <i>pe-tklki.</i>     | Cowelitz .....       | <i>skhon.</i>           |
| <i>English</i> ..... | boy.                 | Killamuck .....      | <i>ntsuon.</i>          |
| Jakon .....          | <i>tklom-kato.</i>   | Umpqua .....         | <i>skhon.</i>           |
| Kizh .....           | <i>kwiti.</i>        | — do. ....           | <i>changa.</i>          |
| Cowelitz .....       | <i>kwaiitkl.</i>     | <i>English</i> ..... | wife.                   |
| <i>English</i> ..... | girl.                | Jakon .....          | <i>sintkhaks.</i>       |
| Jakon .....          | <i>tklaaksawa.</i>   | Cayuse .....         | <i>intkhikaio.</i>      |
| Kizh .....           | <i>takhai.</i>       | Molele .....         | <i>longitkhilai.</i>    |
| Satsikaa .....       | <i>kokwa.</i>        |                      |                         |

*The Sahaptin.* — The Sahaptin, Shoshoni and Lutuami groups are more closely connected than the text makes them.

*The Shoshoni (Paduca) group.* — The best general name for this class is, in the mind of the present writer, Paduca; a name which was proposed by him soon after his notification of the affinity between the Shoshoni and the Comanch, in A.D. 1845. Until then, the two languages stood alone; *i. e.* there was no class at all. The Wihinast was shewn to be akin to the Shoshoni by Mr. Hale; the Wihinast vocabulary having been collected by that indefatigable philologue during the United States Exploring Expedition. In Gallatin's Report this affinity is put forward with due prominence; the Wihinast being spoken of as the Western Shoshoni.

In '50 the Report of the Secretary at War on the route from San Antonio to El Paso supplied an Utah vocabulary; which the paper of May '53 shews to be Paduca.

In the Report upon the Indian Tribes &c. of '55, we find the Chemehuevi, or the language of one of the *Pah-utah* bands "for the first time made public. It agrees" (writes Professor Turner) "with Simpson's Utah and Hale's East Shoshoni."

Carvalho (I quote from Buschmann) gives the numerals of the Piede (Pa-uta) of the Muddy River. They are nearly those of the Chemehuevi.

| ENGLISH.           | PIEDE.             |
|--------------------|--------------------|
| <i>one</i> .....   | soos.              |
| <i>two</i> .....   | weioone.           |
| <i>three</i> ..... | pioone.            |
| <i>four</i> .....  | wolsooing.         |
| <i>five</i> .....  | shoomin.           |
| <i>six</i> .....   | navi.              |
| <i>seven</i> ..... | navikavah.         |
| <i>eight</i> ..... | nanneëtsooïn.      |
| <i>nine</i> .....  | shookootspenkermi. |
| <i>ten</i> .....   | tomshooïn.         |

For the Cahuillo see below.

Is the Kioway Paduca? The only known Kioway vocabulary is one published by Professor Turner in the Report just alluded to. It is followed by the remark that "a comparison of this vocabulary with those of the Shoshoni stock does, it is true, show a greater degree of resemblance than is to be found in any other direction. *The resemblance, however, is not sufficient to establish a radical affinity, but rather appears to be the consequence of long intercommunication.*"

For my own part I look upon the Kioway as Paduca — *the value of the class being raised.*

| ENGLISH.              | KIOWAY. | ENGLISH.           | KIOWAY. |
|-----------------------|---------|--------------------|---------|
| <i>man</i> .....      | kiani.  | <i>star</i> .....  | tah.    |
| <i>woman</i> .....    | mayi.   | <i>fire</i> .....  | pia.    |
| <i>head</i> .....     | kiaku.  | <i>water</i> ..... | tu.     |
| <i>hair</i> .....     | ooto.   | <i>I</i> .....     | no.     |
| <i>face</i> .....     | caupa.  | <i>thou</i> .....  | am.     |
| <i>forehead</i> ..... | taupa.  | <i>he</i> .....    | kin.    |
| <i>ear</i> .....      | taati.  | <i>we</i> .....    | kime.   |
| <i>eye</i> .....      | taati.  | <i>ye</i> .....    | tusa.   |
| <i>nose</i> .....     | maucon. | <i>they</i> .....  | cuta.   |
| <i>mouth</i> .....    | surol.  | <i>one</i> .....   | pahco.  |
| <i>tongue</i> .....   | den.    | <i>two</i> .....   | gia.    |
| <i>tooth</i> .....    | zun.    | <i>three</i> ..... | pao.    |
| <i>hand</i> .....     | mortay. | <i>four</i> .....  | iaki.   |
| <i>foot</i> .....     | onsut.  | <i>five</i> .....  | onto.   |
| <i>blood</i> .....    | um.     | <i>six</i> .....   | mosso.  |
| <i>bone</i> .....     | tonsip. | <i>seven</i> ..... | pantsa. |
| <i>sky</i> .....      | kiacoh. | <i>eight</i> ..... | iatsa.  |
| <i>sun</i> .....      | pai.    | <i>nine</i> .....  | cohtsu. |
| <i>moon</i> .....     | pa.     | <i>ten</i> .....   | cokhi.  |

XIII. *The Capistrano group.* — Buschmann in his paper on the Netela and Kizh states, after Mofras, that the Juyubit, the Caguilla, and the Sibapot tribes belong to the Mission of St. Gabriel. Turner gives a Cahuillo, or Cawio, vocabulary. The district from which it was taken belonged to the St. Gabriel district. The Indian, however, who supplied it had lived with the priests of San Luis Rey, until the break-up of the Mission.

Meanwhile, the San Fernando approaches the San Gabriel, *i. e.* the Kizh.

See also Turner, *p. 77* — where the name *Kechi* seems, word for word, to be Kizh. The Kizh, however is a *San Gabriel* form of speech.

XIV. *The Yuma group.* — Turner gives a Mojave, or Mohavi vocabulary; the first ever published. It is stated and shewn to be Yuma. The Yabipai, in the same paper, is inferred to be Yuma; containing, as it does, the word

*hanna* = good = *hanna*, *Dieguno*.

*n'yatz* = I = *nyat*, *do*.

*pook* = beads = *pook*, *Cuchan*.

The Mohave vocabulary gives the following extracts.

| ENGLISH.            | MOHAVE.             | CUCHAN.                  | DIEGUNO.             | COCOMANCOPA.             |
|---------------------|---------------------|--------------------------|----------------------|--------------------------|
| <i>man</i> .....    | <i>ipah</i> .....   | <i>ipatsh</i> .....      | <i>aykutshet</i> ... | <i>ipatshe</i> .         |
| <i>woman</i> ..     | <i>sinyax</i> ..    | <i>sinyak</i> .....      | <i>sin</i> .....     | <i>sinchayaixhutsh</i> . |
| <i>head</i> .....   | <i>cawawa</i> ...   | <i>umwhelthe</i> .....   | <i>estar</i> .....   | .....                    |
| <i>hair</i> .....   | <i>imi</i> .....    | <i>ocono</i> .....       | .....                | .....                    |
| <i>face</i> .....   | <i>ihalimi</i> ..   | <i>edotshe</i> .....     | <i>wa</i> .....      | .....                    |
| <i>forehead</i> ..  | <i>yamapul</i> .    | <i>iyucoloque</i> .....  | .....                | .....                    |
| <i>ear</i> .....    | <i>esmailk</i> ...  | <i>smythl</i> .....      | <i>hamatl</i> .....  | .....                    |
| <i>eye</i> .....    | <i>idotz</i> .....  | <i>edotshii</i> .....    | <i>awuc</i> .....    | <i>ayedotsh</i> .        |
| <i>nose</i> .....   | <i>ihu</i> .....    | <i>ehotshi</i> .....     | <i>hu</i> .....      | <i>yayyayooche</i> .     |
| <i>mouth</i> .....  | <i>ia</i> .....     | <i>iyuquaofe</i> .....   | <i>ah</i> .....      | <i>izatsh</i> .          |
| <i>tongue</i> ..... | <i>ipailya</i> ..   | <i>epulche</i> .....     | .....                | .....                    |
| <i>tooth</i> .....  | <i>ido</i> .....    | <i>aredoche</i> .....    | .....                | .....                    |
| <i>hand</i> .....   | .....               | <i>isalche</i> .....     | <i>sithl</i> .....   | .....                    |
| <i>arm</i> .....    | <i>isail</i> .....  | .....                    | .....                | .....                    |
| <i>foot</i> .....   | <i>imilapilap</i>   | <i>imetshshpaslapyah</i> | <i>hamilyah</i> ..   | .....                    |
| <i>blood</i> .....  | <i>niawhut</i> ...  | <i>awhut</i> .....       | .....                | .....                    |
| <i>sky</i> ..       | <i>amaiiga</i> ...  | <i>ammai</i> .....       | .....                | .....                    |
| <i>sun</i> .....    | <i>nyatz</i> .....  | <i>nyatsh</i> .....      | <i>nyatz</i> .....   | .....                    |
| <i>moon</i> .....   | <i>hullya</i> ..... | <i>huthlya</i> .....     | <i>hullash</i> ..... | .....                    |
| <i>star</i> .....   | <i>hamuse</i> ..    | <i>klupwataie</i> .....  | <i>hummashish</i>    | .....                    |
| .....               | .....               | <i>hutshar</i> .....     | .....                | .....                    |
| <i>fire</i> .....   | <i>awa</i> .....    | <i>aawo</i> .....        | .....                | <i>ahúch</i> .           |
| <i>water</i> .....  | <i>aha</i> .....    | <i>aha</i> .....         | <i>aha</i> .....     | .....                    |
| <i>I</i> .....      | <i>nyatz</i> .....  | <i>nyat</i> .....        | <i>nyat</i> .....    | <i>inyatz</i> .          |
| <i>thou</i> .....   | <i>mantz</i> ...    | <i>mantz</i> ..          | .....                | <i>mantz</i> .           |
| <i>he</i> .....     | <i>pepa</i> .....   | <i>habuisk</i> .....     | <i>pu</i> .....      | .....                    |
| <i>one</i> .....    | <i>setto</i> .....  | <i>sin</i> .....         | <i>hini</i> .....    | .....                    |
| <i>two</i> .....    | <i>havika</i> ....  | <i>havik</i> .....       | <i>hawuk</i> .....   | .....                    |
| <i>three</i> .....  | <i>hamoko</i> ...   | <i>hamok</i> .....       | <i>hamuk</i> .....   | .....                    |
| <i>four</i> .....   | <i>pinepapa</i> .   | <i>chapop</i> .....      | <i>chapop</i> .....  | .....                    |
| <i>five</i> .....   | <i>serapa</i> ..    | <i>serap</i> .....       | <i>serap</i> .....   | .....                    |
| <i>six</i> .....    | <i>sinta</i> .....  | <i>humhúk</i> .....      | .....                | .....                    |
| <i>seven</i> .....  | <i>vika</i> .....   | <i>pathkaie</i> .....    | .....                | .....                    |
| <i>eight</i> .....  | <i>muka</i> .....   | <i>chiphuk</i> .....     | .....                | .....                    |
| <i>nine</i> .....   | <i>pai</i> .....    | <i>hummamuk</i> .....    | .....                | .....                    |
| <i>ten</i> .....    | <i>arapa</i> .....  | <i>sahbuk</i> .....      | .....                | .....                    |

A-7

SMITHSONIAN  
CONTRIBUTIONS TO KNOWLEDGE.

—  
VOL. XVII.  
—



EVERY MAN IS A VALUABLE MEMBER OF SOCIETY, WHO, BY HIS OBSERVATIONS, RESEARCHES, AND EXPERIMENTS, PROCURES  
KNOWLEDGE FOR MEN.—SMITHSON.

CITY OF WASHINGTON:  
PUBLISHED BY THE SMITHSONIAN INSTITUTION.  
MDCCCLXXI.



S Y S T E M S

OF

CONSANGUINITY AND AFFINITY

OF THE

H U M A N F A M I L Y.

BY

LEWIS H. MORGAN.

[ACCEPTED FOR PUBLICATION, JANUARY, 1868.]

the Table, and the same is equally true of the Spokane, these are sufficient grounds for the admission of the Salish and Sahaptin nations into the Ganowánian family.

One other stock language belonging to the valley of the Columbia, namely, the Kootenay, is represented in the Table. The Flatbows speak a dialect of the same language, and the two together are its only ascertained representatives. Their range is along the western slopes of the Rocky Mountains immediately north of the Flathead area. Although incompletely shown, the Kootenay system of relationship is interesting as a further glimpse at the stupendous scheme of consanguinity which prevails amongst the aboriginal inhabitants of this area. Upon independent grounds a more complex system might be expected to exist in the valley of the Columbia than upon the St. Lawrence or the Mississippi. With so many nations crowded together, but held asunder by dialects and mutually unintelligible stock languages, and yet intermingling by marriage, the constant tendency would be to increase and intensify the special discriminations developed from the system, by the gradual introduction of the special features of each into all the others. These new features do not necessarily disturb the essential framework of the system, although they may greatly increase its complexity, and render it more difficult of ascertainment. Beside this a plan of consanguinity so elaborate as that of the Ganowánian family, could not be maintained pure and simple in its minute details, amongst so many nations, and over such immense areas. Additions and modifications are immaterial so long as they leave undisturbed the fundamental conceptions on which the original system rests.

#### V. Shoshonee Nations.

1. Shoshonees or Snake Indians. 2. Bonnacks. 3. Utahs of the Colorado (1. Tabegwaches. 2. Wemenuches. 3. Yampahs or Utahs of Grand River. 4. Unitahs. 5. Chemehuevis. 6. Capotes. 7. Mohuaches. 8. Pah-Utes). 4. Utahs of Lower California (1. Cahuillos. 2. Kechis. 3. Netelas. 4. Kizhes). 5. Comanches.

There are reasons for believing that the Shoshonee migration was the last of the series, in the order of time, which left the valley of the Columbia, and spread into other parts of the continent. It was a pending migration at the epoch of European colonization. It furnishes an apt illustration of the manner in which Indian migrations are prosecuted under the control of physical causes. They were gradual movements, extended through long periods of time, involving the forcible displacement of other migrants that had preceded them; and therefore, are without any definite direction, except such as was dictated by the exigencies of passing events. The initial point of this migration, as well as its entire course, stands fully revealed. Almost the entire area overspread, showing the general outline of a head, trunk and two legs, is still held by some one of the branches of this great stem. Upon the south branch of the Columbia River the Shoshonees still reside; south of them along the mountain wastes of the interior are the Bonnacks, a closely affiliated people, who occupy quite near to the head-waters of the Colorado. The mountains and the rugged regions drained by the Upper Colorado and its tributaries are held by the Utahs in several independent bands or embryo nations, who are spread over an area of considerable extent. Here the original stream of this migration divided

into two branches; one of them, the Comanche, turned to the southeast, and occupied the western parts of the present State of Texas; whilst the other keeping the west side of the Colorado, descended towards the Gulf of California, and appropriated the regions near the Village Indians of the Lower Colorado. These are the Pah-Utes. Still other bands moved westward and southward and occupied Lower California. These are the Cahiullos, between the San Gabriel and Sante Anna Rivers; and the Mission Indians, namely, the Kizhes of San Gabriel, the Netelas of San Juan Capestrano, and the Kechis of San Louis Rey. Upon the basis of linguistic affinities the conclusion is inevitable that both the Comanches and Netelas are the descendants of original migrants from the valley of the Columbia.<sup>1</sup>

The Shoshonee nations are among the wildest of the American aborigines. With the exception of the Comanches, and a portion of the Shoshonees proper, they hold the poorest sections of the United States, their manners partaking of the roughness of the country they inhabit. Until quite recently they have been inaccessible to government influence. It is still nominal and precarious. The Comanches, who occupy the southern skirt of the great buffalo ranges, and are spread from the Canadian River, a branch of the Arkansas, to the Rio Grande, have become a populous Indian nation within the last century and a half. They are expert horsemen. Next to them are the Shoshonees.

It was found impossible, after repeated efforts, to procure the system of relationship of the Shoshonees or the Comanches, although much more accessible than the other nations. The time is not far distant when all the dialects on the Pacific side, as well as in the interior of the continent, will become as fully opened to us as those upon the eastern side; and when information now so difficult of attainment can be gained with ease and certainty.

An incomplete schedule of the system of the Tabegwaches, one of the Utah nations of the Colorado, was obtained unexpectedly, through my friend the late Robert Kennicott, from a delegation who visited the seat of government in 1863. It will be found in the Table. He was unable to fill out the schedule, except in its most simple parts, from the difficulty of working through interpreters imperfectly skilled in the Utah language; and, therefore, it cannot be taken as indicating to any considerable extent, the contents of the system. From the fact that a portion of the terms of relationship were not obtained, those which are, except the primary, cannot be interpreted. It is valuable as a specimen of the language; and more especially because it indicates the possession of a full nomenclature, and the presence of the minute discriminations which are characteristic of the common system. There are two special features revealed which should be noticed. First the relationship between aunt and nephew is reciprocal and expressed by a single term. The same use of reciprocal terms has been seen to exist both among the Salish and Sahaptin nations, with the language of the former, of which the Tabeg-

---

<sup>1</sup> In 1847 the Shoshonees and Bonnacks were estimated together at 4000. Schoolcraft's *Hist. Cond. and Pros.* VI. 697; and the Utahs in part, at 3600. *Ib.* In 1855 the Comanches were estimated at 15,000. *Ib.* VI. 705. The numbers of the remaining Shoshonee nations on the Pacific are not known. They are not numerous.

A-8

INDIAN LANGUAGES  
OF THE  
PACIFIC STATES AND TERRITORIES  
BY  
ALBERT S GATSCHET

---

*Reprinted from March Number of The Magazine of American History*



syllable, though only in a restricted number of words, and that instead of the accent length and brevity of the syllables receive closer attention. Such idioms we may call quantitating languages, for their system of prosody does not seem to differ much from those of the classical languages.

No plausible cause can as yet be assigned for the frequent, perhaps universal, interchangeability of *b* with *p*, *d* with *t* and *n*, *g* with *k*, *χ*, and the lingual *k*, *m* with *b* and *v* (*w*), *lh* with *k*, *χ*; but as there is nothing fortuitous in nature or in language, a latent cause *must* exist for this peculiarity. No preceding or following sound seems to have any influence on this alternating process, and the vowels alternate in a quite similar manner.

From these general characteristics, to which many others could be added, we pass over to those peculiarities which are more or less specific to the languages of the Pacific Slope. It is not possible to state any absolute, but only some relative and gradual differences between these Western tongues and those of the East, of which we give the following:

The generic difference of animate, inanimate, and neuter nouns, is of little influence on the grammatical forms of the Pacific languages. A so-called *plural* form of the transitive and intransitive verb exists in Selish dialects, in Klamath, Mutsun, San Antonio (probably also in Santa Barbara), and in the Shóshoni dialects of Kauvuya and Gaitchin. Duplication of the entire root, or of a portion of it, is extensively observed in the formation of frequentative and other derivative verbs, of augmentative and diminutive nouns, of adjectives (especially when designating colors), etc., in the Selish and Sahaptin dialects, in Cayuse, Yakon, Klamath, Pit River, Chokoyem, Cop-éh, Cushna, Santa Barbara, Pima, and is very frequent in the native idioms of the Mexican States. The root or, in its stead, the initial syllable, is redoubled regularly, or frequently, for the purpose of forming a (distributive) plural of nouns and verbs in Selish dialects, in Klamath, Kizh, Santa Barbara, and in the Mexican languages of the Pimas, Opatas (including Heve), Tarahumaras, Tepeguanas, and Aztecs.

A definite article "*the*," or a particle corresponding to it in many respects, is appended to the noun, and imparts the idea of actuality to the verb in Sahaptin, Klamath, Kizh, Gaitchin, Kauvuya, Mohave. In San Antonio this article is placed *before* the noun. The practice of appending various "classifiers" or determinatives to the cardinal numerals, to point out the different qualities of the objects counted, seems to be general in the Pacific tongues, for it can be traced in the Selish proper,

it is done in zoology and botany with the genera and species. In the same manner as the Mescaleros and Lipans are called Mescalero-Apaches and Lipan-Apaches, we can form compound names, as:—Warm-Spring Sahaptin Fiskwaus Selish, Watxlála Chinook, Kwalhioqua Tinné, Hoo-pa Tinné, Dowpum Wintoon, Gallinomero Pomo, Coconoon Yocut, Kizh Shoshoni (or Kizh Kautvuya), Comoyei Yuma, Ottare Cherokee, Séneca Iroquois, Abnaki Algónkin, Delaware Algonkin, and so forth. The help afforded to linguistic topography by this method would be as important as the introduction of Linnean terminology was to descriptive natural science, for genera and species exist in human speech as well as among animals and plants.

The *thorough* study of *one* Indian tongue is the most powerful incentive to instructed and capable travelers for collecting as much linguistic material as possible, and as accurately as possible, chiefly in the shape of texts and their translations. It is better to collect little information accurately, than much information of an unreliable nature. The signs used for emphasizing syllables, for nasal and softened vowels, for explosive, lingual, croaking, and other consonantic sounds must be noted and explained carefully; and the whole has to be committed to such publishers or scientific societies as are *not in the habit* of procrastinating publications. Stocks and dialects become rapidly extinct in the West, or get hopelessly mixed, through increased inter-tribal commerce, so that the original shape, pronunciation and inflection can no longer be recognized with certainty. The work must be undertaken in no distant time by zealous men, for after "the last of the Mohicans" will have departed this life, there will be no means left for us to study the most important feature of a tribe—its language—if it has not been secured in time by alphabetical notation.

ALBERT S. GATSCHET.

A-9

THE WORKS

OF

HUBERT HOWE BANCROFT.

VOLUME III.

THE NATIVE RACES.

VOL. III. MYTHS AND LANGUAGES.

SAN FRANCISCO :  
A. L. BANCROFT & COMPANY, PUBLISHERS.  
1883.

other connecting links he particularly mentions the substantive endings *pe*, *be*, and others, by means of which, he says, the Moqui attaches itself to the Shoshone-Comanche branch of the Sonora idioms. The comparative vocabulary before given will further illustrate their affiliation.<sup>12</sup>

Returning to southern California, let us examine the three languages, Kizh, Netela, and Keechi, spoken near the missions of San Gabriel, San Juan Capistrano, and San Luis Rey, respectively, which are not only distantly related to each other, but show traces of the Sonora-Aztec idioms. Father Boscana, who has left us an accurate description of the natives at San Juan Capistrano, unfortunately devoted little attention to their language, and only gives us a few scattered words and stanzas. One of the latter reads as follows:

Quie noit nolvam  
 Quie secat peleblich  
 Ybiennu majaar vesagnee  
 Ibi panal, ibi urnaar,  
 ibi cecal, ibi seja, ibi calcel.

Which may be rendered thus:

I go to my home  
 That is shaded with willows.  
 These five they have placed,  
 This agave, this stone pot,  
 This sand, this honey, etc.<sup>13</sup>

But very little is known of the grammatical structure of these languages. In the Kizh, the plural is formed in various ways, as may be seen in the following examples:

|          | SINGULAR. | PLURAL.  |
|----------|-----------|----------|
| Man      | woroit    | wororoit |
| House    | kitsch    | kikitsch |
| Mountain | haikh     | hahaikh  |

Sprache für ein Glied meines Sonorischen Sprachstammes. Schon die auffallend vielen, manchmal in vorzüglich reiner Form erscheinenden, aztekischen Wörter bezeichnen die Sprache als eine sonorische; es kommt das zweite Kennzeichen hinzu: der Besitz gewisser echt sonorischer Wörter. In einem grossen Theile erscheint die Sprache aber überaus fremdartig; um so mehr als sie auch von den 5 Pueblo-Sprachen, wie schon Simpson bemerkt hat, gänzlich verschieden ist. . . . Die Spuren der Subst. Endung *pe*, *be* u.ä. weisen der Moqui-Sprache ihren Platz unter der comanche-shoshonischen Familie des Sonora Idioms an. Dieses allgemeine Urtheil über die Sprache ist sicher.' *Buschmann, Spuren der Aztek. Spr.*, pp. 289-90.

<sup>12</sup> Simpson's *Jour. Mil. Recon.*, pp. 128-30; Davis' *El Gringo*, pp. 157-9.

<sup>13</sup> Boscana, in *Robinson's Life in Cal.*, p. 282.



|       | SINGULAR. | PLURAL.     |
|-------|-----------|-------------|
| Wolf  | ishot     | ishishot    |
| Good  | tihorwait | tiriwait    |
| Small | tshinui   | tshitshtnui |
| Black | yupikha   | yupinot     |
| Woman | tekor     | totoker     |
| Bow   | paítkhvar | papaítkhvar |
| Bad   | mohai     | momohai     |
| White | arawatal  | rawanot     |
| Red   | kwauokha  | kwaukhonot  |

## DECLENSION WITH PRONOUN.

|            |        |             |          |
|------------|--------|-------------|----------|
| My father  | ninak  | Our father  | ayoinak  |
| Thy father | monak  | Your father | asoinak  |
| His father | anak   |             |          |
| My house   | nikin  | Our house   | eyoknga  |
| Thy house  | mukin  | Your house  | asoknga  |
| His house  | akinga | Their house | pomoknga |

Of the Netela there are also the following few specimens of plural formation and pronouns;—*suol*, star; *su-um*, stars; *nopulum*, my eyes; *nanakom*, my ears; *nikí-walom*, my cheeks; *natakulom*, my hand; *netémelum*, my knees.

## DECLENSION WITH PRONOUN.

|           |          |             |            |
|-----------|----------|-------------|------------|
| My house  | niki     | Our house   | tshomki    |
| Thy house | om aki   | Your house  | omomomki   |
| His house | poki     | Their house | omp omki   |
| My boat   | nokh     | Our boat    | tshomikh   |
| Thy boat  | om omikh | Your boat   | omom omikh |
| His boat  | ompomikh | Their boat  | ompomikh " |

The Kizh appears also to have been spoken, in a slightly divergent dialect, at the Mission of San Fernando, as may be easily seen by comparing the following two versions of the Lord's Prayer; the first in the language of San Fernando, and the latter in that spoken at San Gabriel.

Y yorac yona taray tucúpuma sagoncó motoanian majarmi moín main monó muismi miojor yiaetucupar. Pan yyogin gimiamerin majarmi mifema coyó ogorná yio mamainay mii, yiarmá ogonug y yoná. y yo ocaynen coijarmeá main ytomo mojay coiyamá huermí. Paríma.

Yyonac y yogin tucupugnaisá sujucoy motuanian masarmi magin tucupra maimanó muisme milléosar y

<sup>11</sup> *Hale's Ethnogr.*, in *U. S. Ex. Ex.*, vol. vi., pp. 566-7; *Buschmann*, Kizh and Netela, pp. 512-13.

# THE AMERICAN RACE:

A LINGUISTIC CLASSIFICATION AND ETHNOGRAPHIC  
DESCRIPTION OF THE NATIVE TRIBES OF  
NORTH AND SOUTH AMERICA.

BY

DANIEL G. BRINTON, A. M., M. D.,

Professor of American Archæology and Linguistics in the University of Pennsylvania, and of General Ethnology at the Academy of Natural Sciences, Philadelphia; Vice-President of the Congrès International des Américanistes; Medallist of the Société Américaine de France; President of the Numismatic and Antiquarian Society of Philadelphia, and of the University Archæological Association of the University of Pennsylvania; Member of the Anthropological Societies of Berlin and Vienna, and of the Ethnographical Societies of Paris and Florence; of the Royal Society of Antiquaries, Copenhagen, and of the Royal Society of History, Madrid; of the American Philosophical Society, the American Antiquarian Society, etc.

---

NEW YORK:

N. D. C. HODGES, PUBLISHER,  
47 LAFAYETTE PLACE.

1891.

ernment annually as tribute. A book consisted of a strip of paper perhaps twenty feet long, folded like a screen into pages about six inches wide, on both sides of which were painted the hieroglyphic characters. These were partly ideographic, partly phonetic; the latter were upon the principle of the rebus, conveying the name or word by the representation of some object, the word for which had a similar sound. I have called this the *ikonomatic* method of writing, and have explained it in detail in several essays on the subject.\*

Their calendar recognized the length of the year as 365 days. The mathematical difficulties in the way of a complete understanding of it have not yet been worked out, and it may have differed in the various tribes. Its elements were a common property of all the Nahuatl peoples, as well as many of their neighbors; which of them first devised it has not been ascertained.

#### UTO-AZTECAN LINGUISTIC STOCK.

##### *a. Shoshonian Branch.*

*Bannacks*, in Montana and southern Idaho.

*Cahuillos*, in southern California.

*Chemehuevis*, branch of Pi-utes, on Cottonwood Island.

*Comanches*, in northern Texas, on both banks of Rio Grande.

*Kauvuyas*, southern California, near the Pacific.

*Kechis*, in southern California, branch of Kauvuyas.

\* *Kizh*, in southern California, branch of Kauvuyas.

*Moquis*, in Moqui Pueblo, Arizona.

*Nelelas*, in southern California.

*Pa-Vants*, south of Great Salt Lake.

---

\* See "The Ikonomatic Method of Phonetic Writing" in my *Essays of an Americanist*, p. 213. (Philadelphia, 1890.)

**A-11**

**The University of Chicago**  
FOUNDED BY JOHN D. ROCKEFELLER

# THE ETHNO-BOTANY OF THE COAHUILLA INDIANS OF SOUTHERN CALIFORNIA

A DISSERTATION SUBMITTED TO THE FACULTIES OF THE GRADUATE SCHOOLS  
OF ARTS, LITERATURE, AND SCIENCE, IN CANDIDACY FOR  
THE DEGREE OF DOCTOR OF PHILOSOPHY

(DEPARTMENT OF ANTHROPOLOGY)

---

BY  
DAVID PRESCOTT BARROWS

---

CHICAGO  
**The University of Chicago Press**  
1900

these words from an Indian, but this error is easily rectified. Mr. Whipple's linguistic material collected on this expedition was analyzed by Professor William W. Turner and printed in the Expedition's report upon the Indian tribes.<sup>1</sup> In this report the Comanche, Chemehuevi, and "Cahuillo" vocabularies are printed in comparative columns under the title "Shoshonee." A comparative vocabulary was also published, embracing twenty-eight "Cahuillo" words, together with an equal number from Mr. Hale's "Kizh" and "Netela," and from a manuscript vocabulary of the Indians at San Luis Rey mission, procured by Hon. John R. Bartlett, while engaged upon the Mexican Boundary Survey, and called by him the "Kechi."<sup>2</sup> Professor Turner's conclusion in regard to the Comanche, Chemehuevi, and Cahuillo, was that

the natives who speak these languages belong to the great Shoshone or Snake family: which comprehends the Shoshones proper of southern Oregon, the Utahs in the region around the Great Salt Lake and then extending south and west the Pah-Utahs, west of the Colorado and the Indians of the missions of southern California, the Kizh (of San Gabriel), the Netela (of San Juan Capistrano), and the Kechi (of San Luis Rey), and on the south and east the Comanches of the prairies.<sup>3</sup>

To these collections of Lieutenant Whipple and the analysis of Professor Turner is due also the establishment of the Yuma linguistic family, including the Mojaves, Cuchans, Maricopas, and Diegeño Indians, and the connection of the Diegeño Indians therewith.<sup>4</sup> A vocabulary of the Diegeños, furnished by Dr. Coulter, had already been, as we have seen,<sup>5</sup> published in the eleventh volume of the Royal Geographical Society's *Journal*, and the paper of Mr. Latham "On the Languages of New California"<sup>6</sup> attempted to classify the Indians of southern California on the basis of De Mofras' Paternosters; but that the Diegeños were close kin to the tribes of the Gila and Colorado rivers seems not to have been suspected previous to Mr. Turner's discovery of the relation.

From 1853 to 1859 the linguistic connections of these Indians excited the interest of Dr. Johann Buschmann. This learned philologist, searching for traces of Aztec speech among the Indian languages of

<sup>1</sup> *Ibid.*, chap. 5, "Vocabularies of North American Language," pp. 71-77.

<sup>2</sup> In his *Personal Narrative*, Vol. II, p. 92, MR. BARTLETT speaks of his visit to the San Luis Rey mission and of "an old chief" who was quite communicative of information and furnished a "vocabulary. . . . He called his tribe the Kechi." This vocabulary contains twenty-eight words.

<sup>3</sup> *Ibid.*, p. 76.

<sup>4</sup> The vocabularies for this analysis were collected by Lieutenant Emory in 1854, while engaged on the Mexican Boundary Survey, and are printed in the reports of that expedition.

<sup>5</sup> *Supra*, p. 11.

<sup>6</sup> *Supra*, p. 12.

**UNIVERSITY OF CALIFORNIA PUBLICATIONS  
AMERICAN ARCHAEOLOGY AND ETHNOLOGY**

**Vol. 4**

**No. 3**

---

**SHOSHONEAN DIALECTS OF CALIFORNIA**

**BY**

**A. L. KROEBER**

**BERKELEY  
THE UNIVERSITY PRESS  
FEBRUARY, 1907**

a surmise<sup>1</sup>. There is no evidence except Loew's that the word was used by any Indians as a tribal name; nor has it been used even in books except on the authority of Loew<sup>2</sup>. Its application to all the Shoshoneans of Southern California is certainly without warrant. Buschmann, following Hale, has called the Gabrielino language Kizh, also written Kij. This term is evidently related to the Gabrielino word for house, *kikh* or *kigh*, also given as *kich*. The Luiseño call the Gabrielino *Tumangamal-um*, northerners, and their language *tumangangakh*.

The territory of the Gabrielino group comprised all the present Los Angeles county south of the San Bernardino mountains, except probably the narrow coast strip west of Santa Monica. It covered also the greater part of what is now Orange county, extending as far as Alisos creek, north of San Juan Capistrano. To the east it reached a short distance beyond the limits of Los Angeles county, but without including San Bernardino or Riverside. Informants at Tejon place Shoshoneans speaking a dialect related to that of San Fernando at Camulos and Piru, *i.e.*, the mouth of Piru creek in Santa Clara river, in eastern Ventura county; but confirmation is required. Practically nothing is known as to the distribution of Indians in this interior region.

Besides San Gabriel, Mission San Fernando was in Gabrielino territory. The Spaniards, following their custom, speak of the Indians attached to this mission as *Fernandeños* or *Fernandinos*. The vocabularies that have been given show that there was no dialectic difference of consequence. So the Indians also state; Taylor<sup>3</sup> and Gatschet<sup>4</sup> say and Reid<sup>5</sup> implies the same thing; and

<sup>1</sup> From *toba*, *sit*. Cf., however, Hale, *Tr. Am. Ethn. Soc.*, II, 128, Gabrielino: *earth*, *tonanga* (= *towa-nga*); and Reid, in Hoffman, *Bull. Essex Instit.*, XVII, 6, 1885; *tobagnar*, the whole earth, *lahur*, a portion of it, a piece of land. Other vocabularies give for *earth*: *ōxar*, or *olkhor*. Barrows, *op. cit.*, 19, recalls that Reid, in Taylor, *Cal. Farmer*, XIV, 146, Jan. 11, 1861, gives the name of the mythological "first man" as *Tobohar*. Taylor, on his own authority, *Cal. Farmer*, XIII, 90, May 11, 1860, gives *Toviscanga* as the name of the site of San Gabriel. Cf. *Tuvasak* below.

<sup>2</sup> Reid, in Taylor, *Cal. Farmer*, XIV, 146, Jan. 11, 1861; "It probably may not be out of place here to remark, that this tribe" (the 'Indians of Los Angeles county' or Gabrielino) "had no distinguishing appellation."

<sup>3</sup> *Cal. Farmer*, XIII, 90, May 11, 1860.

<sup>4</sup> *Wheeler Survey*, VII, 413.

<sup>5</sup> Quoted by A. Taylor, *Cal. Farmer*, XIV, 146, Jan. 11, 1861; also reprinted from Reid's manuscripts by W. J. Hoffman, *Bull. Essex Instit.*, XVII, 2, 1885. Reid's material was originally printed in the *Los Angeles Star*.

# *The* OLD SAN GABRIEL MISSION

HISTORICAL NOTES TAKEN FROM OLD  
MANUSCRIPTS AND RECORDS ACCU-  
RATELY COMPILED AFTER DILIGENT  
RESEARCH BY

REV. EUGENE SUGRANES, C. M. F.



SAN GABRIEL, CALIFORNIA

FEBRUARY SECOND

1909



## CHAPTER VI

### Why Growth was Slow in the Early Period of the Existence of the San Gabriel Mission, 1771-1778

Perhaps it will seem strange, especially to the casual observer, that the progress of the San Gabriel Mission during the critical period of its infancy was comparatively slow. Yet we should not lose sight of the fact that into all the undertakings for the honor and glory of God, the human element must needs enter. In this is especially manifested the wisdom and providence of God. God works His wonders through natural agencies; even our salvation, the most wonderful of His providences, was wrought through human instrumentality. Likewise he employs our failures for his successes and even our sins oftentimes become the occasion for His more glorious manifestation.

Turning our attention to the various causes for the lack of rapid growth of this early mission, the first and perhaps the most lamentable was the reprehensible conduct of the soldier related above. This at once created a strong animosity in the hearts of the savages towards the missionaries. The Indians conceived the idea that rapine was the primary purpose of the mission's existence, rather than a kindly helpfulness to a better life. Sad indeed is it to know that not only upon this one occasion did the soldiers behave themselves unseemly, but in spite of the earnest admonitions of the Fathers to the contrary, they repeatedly brought shame upon the holy enterprise.

Another cause was the great difficulty experienced in learning the language and special dialect of the Indians. It is not rare to hear the missionaries complain of this hindrance. Each tribe spoke a different dialect and though a missionary might master one, yet in the immediate neighborhood another would be found quite different. The letters of the first missionaries to California tell of the laborious and tedious way in which they had to learn the different languages from the Indians and it is not a pleasant task for a missionary to express in writing the strange sounds he hears.

The language spoken by the San Gabriel Mission Indians was the Kizh. The Lord's Prayer in the Kizh dialect is as follows: Yyonak y yogin tucupugnaisa sujucoy motuanian masarmi magin tucupra maimano muisime milleosar y ya tucutar jiman bxi y yoni masaxmi mitema coy aboxmi y yo nnamainatar moojaich milli y yaqma abonae y yo no y yo ocaihuc coy jaxmea main itan monosaich coy jama juexme huememesaich.--Bancroft Hist. Native Races 111,675.

## **DIG**

**CSULB's Monthly Student Magazine**

**DIG investigates the background of the 22-acre lot that was inhabited by American Indians**

# **Is CSULB really on an Indian burial ground?**

**by Lauren Williams**

**published: Monday, March 3, 2008**

**updated: Saturday, April 9, 2011: 18:04**

...

According to Cindi Alvitre, a professor in American Indian studies and anthropology,

The name given to the collective group of tribes that inhabited what is now CSULB was "Gabrielino," given to the group by Spanish settlers, according to Alvitre, who arrived in the area in the late 1700s and later relocated the indigenous community to missions around Southern California.

"The name Tongva is what we've chosen to use in the present," which means "people of the Earth," Alvitre said in her office one day, early last fall semester. "There was no one tribe called 'Tongva.'"

# Handbook of North American Indians

WILLIAM C. STURTEVANT

*General Editor*

VOLUME 8

# California

ROBERT F. HEIZER

*Volume Editor*



SMITHSONIAN INSTITUTION

WASHINGTON

1978

Copyright © 1978 by Smithsonian Institution  
All rights reserved.

For sale by the Superintendent of Documents,  
U.S. Government Printing Office, Washington, D.C. 20402.  
Stock Number: 047-000-00347-4

**Library of Congress Cataloging in Publication Data**

Handbook of North American Indians.

Bibliography: pp. 721-768

Includes index.

CONTENTS:

v. 8. California.

1. Indians of North America. 2. Eskimos.

I. Sturtevant, William C.

E77.H25 970'.004'97 77-17162

# Gabrielino

LOWELL JOHN BEAN AND CHARLES R. SMITH

The Gabrielino (gäbrēal'ēnō) are, in many ways, one of the most interesting—yet least known—of native California peoples. At the time of Spanish contact in 1769 they occupied the “most richly endowed coastal section in southern California” (Blackburn 1962-1963:6), which is most of present-day Los Angeles and Orange counties, plus several offshore islands (San Clemente, Santa Catalina, San Nicolas). With the possible exception of the Chumash, the Gabrielino were the wealthiest, most populous, and most powerful ethnic nationality in aboriginal southern California, their influence spreading as far north as the San Joaquin valley Yokuts, as far east as the Colorado River, and south into Baja California. Unfortunately, most if not all Gabrielinos were dead long before systematic ethnographic studies were instituted; and, as a result, knowledge of them and their lifeways is meager.

## Language, Territory, and Environment

Gabrielino was one of the Cupan languages in the Takic family, which is part of the Uto-Aztecan linguistic stock (Bright 1975).<sup>\*</sup> Internal linguistic differences existed, Harrington (1962:viii) suggesting four dialects and Kroeber (1925), six. Harrington's four-part division includes: Gabrielino proper, spoken mainly in the Los Angeles basin area; Fernandēño, spoken by people north of the Los Angeles basin, mainly in the San Fernando valley region; Santa Catalina Island dialect; and San Nicolas Island dialect—although according to Bright (1975) insufficient data exist to be sure of the Cupan affiliation of the San Nicolas speech. There were probably dialectical differences also between many mainland villages, a result not only of geographical separation but also of social, cultural, and linguistic mixing with neighboring non-Gabrielino speakers.

The names Gabrielino and Fernandēño (fernän'dä-nyō) refer to the two major Spanish missions established in Gabrielino territory—San Gabriel and San Fernando.

<sup>\*</sup> Italicized Gabrielino words have been written in a phonemic alphabet by Kenneth C. Hill, on the basis of John Peabody Harrington's unpublished field notes. The consonants are: (stops and affricate) *p, t, c, k, kʰ, ʔ*; (fricatives) *s, ʃ, x, h*; (nasals) *m, n, ŋ*; (approximants) *v, ɬ, r, y, w*. Stressed vowels are *i, e [e], a, o [ɔ], u*, which may occur long or short; in unstressed syllables the vowels are only *i [e], a, and u [ɔ]*.

It was to these two missions that the majority of the Indians living on the coastal plains and valleys of southern California were removed.

Although the major outlines of Gabrielino territorial occupation are known, the fixing of definitive boundaries is difficult. Generally, Gabrielino territory included the watersheds of the Los Angeles, San Gabriel, and Santa Ana rivers, several smaller intermittent streams in the Santa Monica and Santa Ana mountains, all of the Los Angeles basin, the coast from Aliso Creek in the south to Topanga Creek in the north, and the islands of San Clemente, San Nicolas, and Santa Catalina (fig. 1). The area thus bounded encompassed several biotic zones (such as Coast-Marsh, Coastal Strand, Prairie, Chaparral, Oak Woodland, Pine) and, following Hudson's (1971) studies, can be divided into four macro-environmental zones (excluding the islands): Interior Mountains/Adjacent Foothills, Prairie, Exposed Coast, and Sheltered Coast. Each area is characterized by a particular floral-faunal-geographical relationship that allows delineation of subsistence-settlement patterns “according to the macro-environmental setting.” The interior mountains and foothills, according to Hudson, comprise an area of numerous resources including “many small animals, deer, acorns, sage, piñon nuts, and a variety of other plants and animal foods.” Settlement-pattern studies

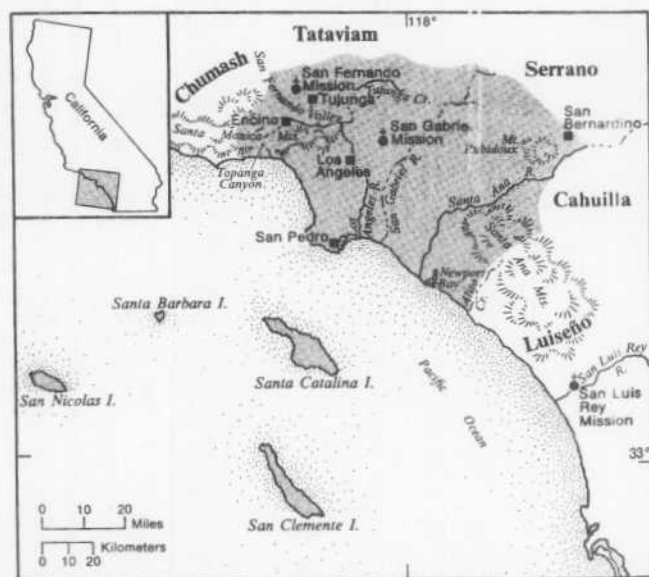


Fig. 1. Tribal territory.



(Hudson 1969) indicate the existence of both primary subsistence villages occupied continuously (perhaps by multiple clan groupings) and smaller secondary gathering camps (small family unit occupation) occupied at various times during the year, depending upon season and resource. All settlements in this zone, as well as in the other zones, were situated near water courses.

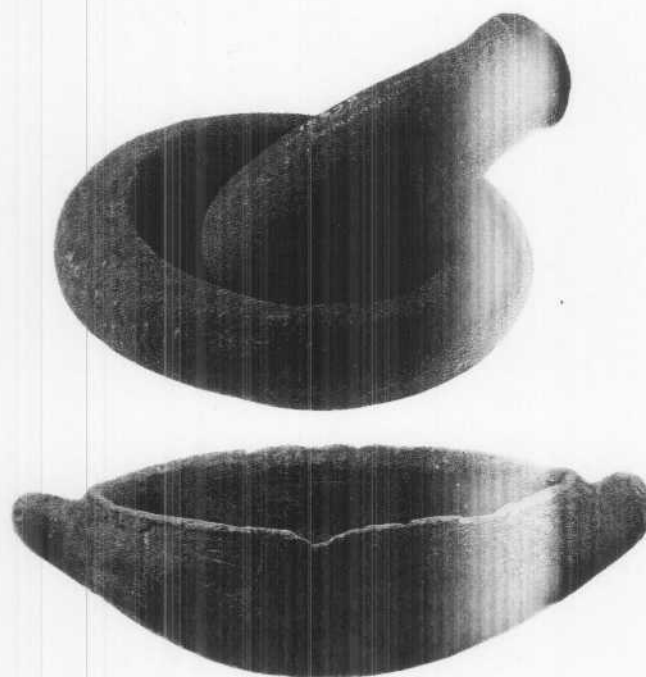
The Prairie, the area flanking the interior mountains on the north, east, and south, had as its predominant food resources acorns, sage, yucca, deer, numerous small rodents, cacti, plus a wide variety of plants, animals, and birds associated with marshes (Hudson 1971). Sites (both primary and secondary) were distributed throughout, but always near water courses or springs. The exposed coast from San Pedro south to Newport Bay was an area of concentrated secondary subsistence gathering camps with no primary subsistence villages immediately adjacent to the coast, but rather located inland. Various shellfish, some rays, sharks, and fish were the important food resources, while the offshore kelp beds (prime fishing areas for tuna and swordfish) were used year-round, especially in late summer and early fall. The sheltered coastal area stretching from San Pedro north to Topanga Canyon was characterized by primary subsistence villages located on the coast and secondary subsistence sites concentrated inland near areas of plant-food abundance (like sage stands and acorn or pine nut groves). The resources of this area were primarily marine (fish, shellfish, rays, sharks, sea mammals, and waterfowl), and "it is likely that some ecological elements of this region were also present in Area III (Exposed Coast), depending upon geographical features and weather" (Hudson 1971:56).

Climate varied according to locality, but average July temperatures along the coast ranged from approximately 68° F. to 76° F., with average January temperatures for the Gabrielino area as a whole ranging between 40° F. and 52° F. In the mountains, especially above 7,000 feet, temperatures often dipped as low as 30° F. in the winter (accompanied by snow), while summer temperatures on the prairies occasionally rose as high as 100° F.

While average annual precipitation in the twentieth century is generally less than 15 inches, as much as 40 inches is known in the higher mountains; and it is assumed that a similar pattern existed in precontact periods. The predominant climatic type is Hot Steppe, but near the coast and inland in the foothills and mountains the climatic type is warm Mediterranean. The predominant vegetation associations throughout most of the mainland area are grass and coastal sagebrush, especially in valley bottoms, and chaparral at higher elevations. Over 89 percent of Gabrielino territory was within the Sonoran life-zone, an extremely rich zone, while the balance was Forest Transition along the higher slopes and peaks of the San Gabriel and Santa Ana mountains.

The islands presented a different environmental picture. On San Nicolas Island, called *so'ya* in Gabrielino, 75 miles southwest of Los Angeles, there were virtually no land mammals and a scarcity of exploitable floral resources. However, the little (32.2 sq. mi.), semidesert, windswept island was "particularly favored by the occurrence of abundant sea mammals" in the surrounding sea (Meighan and Eberhart 1953:113), including California and Steller sea lions, harbor seals, sea otters, and northern elephant seals. Additionally, the island was rich in sea fowl, while several different species of fish abounded in the surrounding sea. But the most important meat source was shellfish (rock scallops, mussels, several kinds of limpets, sea urchins), obtainable in large amounts along the island's rocky shoreline. From the hundreds of mortars and pestles (fig. 2) found on the island it is assumed that some plant material was prepared (some parts of the island supported trees, brush, mosses, grasses), but early Spanish references indicate mortars were also used in processing dried abalone meat.

The settlement pattern on San Nicolas is remarkably consistent through time. Villages were located either on sand dunes within 200 yards of shoreline or at considerable elevation above sea level inland on the island's central plateau. The determining factors in settlement pattern were access to the beaches or sea, fresh water (limited to a few springs in the inland's northwestern corner), and elevation affording an unobstructed view. From archeological research it appears that the densest



Dept. of Anthr., Smithsonian: top, 18670, 18698; bottom, 21887.

Fig. 2. Utensils for food preparation. top, Sandstone mortar and pestle collected at San Nicolas Island, diameter of mortar 23.5 cm; bottom, soapstone pot collected at Santa Barbara Island, same scale.

occupation of the island occurred in the few centuries preceding Spanish conquest, with a population of 600-1,200 at any one time (Meighan and Eberhart 1953).

Santa Catalina Island, called *pimu'ʔa* by the Gabriellino, is predominantly mountainous, with very limited plant resources (sparse, thin grasses, small shrubs, a few species of cacti) and few land animals (mainly deer, ground squirrels, foxes). There appears to have been limited use of migratory waterfowl, and quail, abundant today, may have also been used. However, as with San Nicolas Island, the major food resources were marine animals: fish, shellfish, and sea mammals. According to Meighan (1959:401) there was not just a "heavy dependency on sea mammals, but a specialized maritime economy which exploited dolphins and porpoises to a great extent." Permanent habitation sites were located mainly along the coast with interior sites not much more than trail-side camps occupied for very short periods. Although very little is known about the aboriginal inhabitants of the island, on the basis of archeological research at one of the coastal headland sites, Little Harbor, it has been established that the island was occupied as early as 2000 B.C. by a sizable number of people, because the Little Harbor site is areally large and the layers of cultural material are deep.

Very little information is available concerning habitation patterns on San Clemente Island, but the environmental situation is essentially identical with that of San Nicolas and Santa Catalina. As Kroeber (1925:620) noted, "the local culture on San Clemente . . . was clearly connected with that of Santa Catalina, perhaps dependent upon it; and Catalina was pure Gabriellino in speech." Therefore, cultural patterns were probably fairly similar to the mainland, or at least to those of Santa Catalina.

## History

Population estimates for the Gabriellino are next to impossible to make. Possibly more than 50 or 100 mainland villages were inhabited simultaneously with an average population in each village of 50-100 at the time of contact with Europeans. Early Spanish reports indicate a range of village population between 50 and 200 people. At Tujunga in 1797 there were 90 full-time residents, Crespi (1927) counted over 200 at Yangna (*ya'na*), and Forbes (1966:139) states that the village at Encino had a population of at least 60 permanent residents but over 200 people were present to greet the Spanish explorers. Later reports that give very low population figures, such as those of Hugo Reid and those from the Spanish mission baptismal records, probably reflect the results of inroads made by introduced disease prior to the actual arrival of Spaniards. Pablo Tac, a neophyte from San Luis Rey Mission, reported that the Indians in that area had suffered severe population loss

from disease several years prior to Spanish entry into the area (Tac 1930).

According to the archeological record, the Gabriellino were not the first inhabitants of the Los Angeles basin but arrived around 500 B.C. (as part of what Kroeber has called the Shoshonean [Takic-speaking] wedge), slowly displacing the indigenous Hokan speakers. By A.D. 500 dialectical diversification had begun among the Gabriellino. Permanent villages were established in the fertile lowlands along rivers and streams and in sheltered areas along the coast; and population expanded with many of the larger, permanent villages having satellite communities lying at varying distances from them and connected through economic, religious, and social ties. Kroeber (1925) believed that the Gabriellino cultural pattern encountered by the Spanish in the eighteenth century had crystallized as early as A.D. 1200 and shortly before the Spanish arrived in force about 1770 the population had grown in excess of 5,000.

As early as 1542 the Gabriellino were in contact with the Spanish, for in that year Juan Rodríguez Cabrillo became the first Spaniard to set foot on Gabriellino soil. This first contact, at which the Indian women and children fled and men armed themselves with bows, was peaceful; and when the Spaniards returned in 1602, under Sebastián Vizcaino, the Gabriellino received them with hospitality. However, it was not until 1769 that the Spaniards took steps to colonize within Gabriellino territory. Several land expeditions were dispatched to locate suitable mission sites, and by 1771 four had been built. But relations with the Indians disintegrated; their population dwindled (due to introduced diseases, dietary deficiencies, forceful reduction); and by 1900 they had ceased to exist as a culturally identifiable group (see table 1).

## Culture

### *Clothing and Adornment*

The Gabriellino, described as being "a race which . . . was genetically stable, physically hardy, and attuned to the conditions of its environments" (B.E. Johnston 1962:28), were for a short period considered by the Spanish as a special race of "White Indians" because of their light skin color. Older women used liberal amounts of red ocher paint on their faces to retard the browning and wrinkling process caused by sun and wind. Younger women also used the red paint as a rouge to make themselves more attractive. Tattooing, using thorns of flint slivers as the agent and vegetable charcoal as the dye, was common practice. Before puberty, girls were tattooed on their foreheads and chins, while adult women had tattoos covering an area from their eyes down to their breasts. Men tattooed their foreheads with vertical and/or horizontal lines.



Table 1. History

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                                                                                                                                                                                                                                                                                                                                                |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1973      | Some residents of San Gabriel claim Gabrielino heritage.                                                                                                                                                                                                                                                                                                                                                                                                                                | 1800 | Most Gabrielinos missionized, dead, or fled to other areas with scattered numbers in area. More non-Gabrielinos brought into Gabrielino missions (e.g., Serrano, Luiseño, Cahuilla, Ipai-Tipai).                                                                                                                                               |
| 1925      | Some remnants of Gabrielino songs and culture recorded by J.P. Harrington at Pala Indian Reservation.                                                                                                                                                                                                                                                                                                                                                                                   | 1797 | San Luis Rey active, growing, expanding.                                                                                                                                                                                                                                                                                                       |
| 1903      | C. Hart Merriam, A.L. Kroeber, and others work with the few remaining Gabrielinos. A few years later J.P. Harrington begins Gabrielino research as does Constance Goddard DuBois.                                                                                                                                                                                                                                                                                                       | 1796 | Because of poor economic conditions in missions and Spanish communities, neophytes arranged to use traditional Gabrielino subsistence methods to help feed the general populace. Gabrielinos also are major labor force in Pueblo of Los Angeles and outlying ranches and farms.                                                               |
| 1860-1900 | Smallpox epidemic further reduces Gabrielino population except for isolated families and Gabrielinos living in remote areas. Gabrielino culture is now only in the minds of a few people.                                                                                                                                                                                                                                                                                               | 1786 | Revolts in areas outside Gabrielino area. Spanish control firm only within a 20-mile radius of Los Angeles.                                                                                                                                                                                                                                    |
| 1852      | Hugo Reid publishes <i>Indians of Los Angeles County</i> . His wife, Victoria (d. 1868), is a Gabrielino and a prominent person in the Los Angeles area. B.D. Wilson publishes report on Indians of southern California and recommends better treatment for Indians. This report is ignored.                                                                                                                                                                                            | 1785 | Indian protests, revolts are frequent, culminating in a major revolt led by Toyupurina, a chief's daughter. Increased segregation of Indians from <i>gente de razón</i> attempted by government. Most Gabrielinos become a peasant class working for missions or a landed gentry. Apartheidlike policy dominates Spanish-Indian relationships. |
| 1840-1850 | Most Indians in Los Angeles area are other Mission groups, but a few Gabrielino still in the area. Some Gabrielino language, some rituals and games, traditional crafts and economic modes still maintained, but in very attenuated forms. Gabrielino is until this period the lingua franca for Whites and Indians. Clamshell beads still used as money; baskets and steatite artifacts still being used by Europeans and Indians. Smallpox epidemics decimate all tribes in the area. | 1779 | Social organizations of missions crystallized as the positions of councilmen and alcaldes are established—elected by neophytes. Conflicts between military and church become acute as each vies for authority over Indian labor.                                                                                                               |
| 1833      | Missions secularized, become refuges for aged, infirm. Most Gabrielinos are laborers for gentry class or landowners themselves (very rarely). Gabrielinos are scattered as far north as Monterey and south to below San Diego, while many are living with groups in the remote interior.                                                                                                                                                                                                | 1778 | Mass conversions of villages begins, as certain chiefs become converted, drawing many of their followers with them.                                                                                                                                                                                                                            |
| 1800-1833 | Missions grow, ranches expand, most Indians firmly in peasant class or fugitives. Diseases (among Indians) still killing many; armed raids conducted by Spanish against escaped neophytes and those Indians still not converted.                                                                                                                                                                                                                                                        | 1771 | Mission San Gabriel established, slowly integrates a few Gabrielinos into the mission. Many nonconverted Gabrielinos integrate into economic and social life of Spanish, but not religious life.                                                                                                                                               |
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1769 | Gaspar de Portolá expedition crosses Gabrielino territory and interacts with Gabrielinos. European disease probably decimating populations already. Conflicts among Gabrielino begin almost immediately. Conversions slow.                                                                                                                     |
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1602 | Spanish explorers visit Santa Catalina.                                                                                                                                                                                                                                                                                                        |
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1520 | Spanish explorers visit Santa Catalina.                                                                                                                                                                                                                                                                                                        |

Men wore their hair long, parted in the middle, and either falling straight or braided in the back and doubled upward, fastening onto the head with a cane or bone pin. The women's hair was also long and free, with bangs, and frequently adorned with flower garlands. When in mourning women either singed or cut their hair as a sacrifice and as a demonstration of their feeling of loss. To keep their hair glossy and free of parasites, clay was applied to the head, left to dry, and then broken off. In those instances where baldness was a problem, various plants were reduced to charcoal, ground into paste, and rubbed into the scalp once in the morning and again in the evening for as long as necessary to restore the lost hair. Daily bathing for everyone was rigorously adhered

to, and usually done before sunrise, with everyone drying out by the fire as breakfast was prepared (B.E. Johnston 1962).

Men and children usually went naked, while women wore aprons of either deerskin or the inner bark of willow or cottonwood trees. Occasionally capes of deerskin, rabbit fur, or bird skins (with feathers intact) were worn, especially in cold or wet weather. Except in areas of rough terrain when yucca fiber sandals were donned, everyone went barefooted. At night robes of deerskins or twisted strips of rabbit fur woven together with milkweed or yucca fiber were used as blankets. On the islands and along the coast, otter skins were used for the same

purposes. Ritual costumes (worn during dances by warriors, chiefs, shamans) were colorful (with plumage from different birds, fur, shells, and beads used as decoration) and elaborate and included feather head-dresses, feathered capes and skirts. Uncovered skin was brightly decorated with paint.

### Technology

The majority of Gabrielino material culture, although perishable and rarely lasting more than a few years, reflected an elaborately developed artisanship, with many everyday use items decorated with shell inlaid in asphaltum, rare minerals, carvings, and painting, and comparable in quality and excellence to that of their northwestern neighbors, the Chumash. Perhaps the best-known items of Gabrielino material culture are the objects made of steatite, obtained in finished or raw form by most mainland groups from the Indians of Santa Catalina Islands, where a veritable steatite industry flourished. The steatite was used in making animal carvings, pipes, "ritual" objects, ornaments, and cooking utensils (figs. 2-3). The last were considered of such value (because of their being made of steatite) that when a cooking pot broke, it was either mended with asphalt or a handle was attached to the largest piece, which was then used as a frying pan. Other food preparation items included bedrock and portable mortars, metates, mullers, mealing brushes, wooden stirrers, paddles, shell spoons, bark platters, wooden bowls (often inlaid with haliotis

shell), and pottery vessels, made by coiling technique and paddle and anvil (Blackburn 1962-1963).

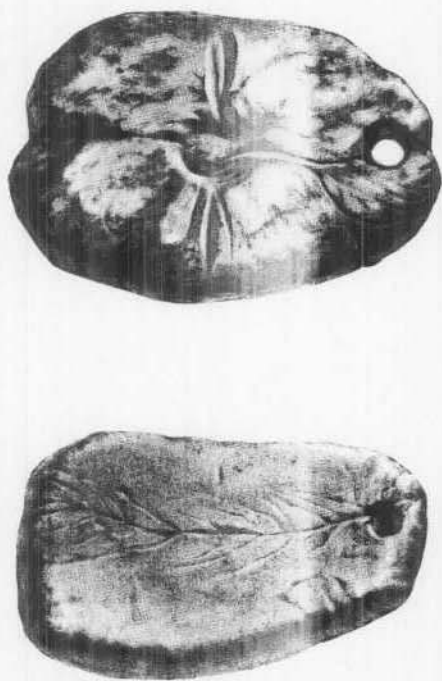
A variety of tools was made, including saws made from deer scapulae, bone or shell needles, fishhooks and awls, scrapers, flakers (of bone or shell), wedges, hafted or unhafted flint or cane knives, and flint drills.

Baskets were made by the women from the stems of rushes (*Juncus* sp.), grass (*Muhlenbergia rigens*), and squawbush (*Rhus trilobata*) with a three-color patterned decoration (Harrington 1942:20-23). Coiled wares included mortar hoppers; flat baskets used as plates, trays, winnowers, shallow carrying or serving baskets; storage baskets; and small globular baskets used to keep trinkets in. Closework and openwork twining was used to make deep or globular-shaped baskets, or for baskets used in leaching, straining, or gathering. Ceremonial baskets, urn-shaped and choke-mouthed, were used for grave offerings (Merriam 1955:84; Blackburn 1962-1963).

Weapons included three forms of wooden war clubs, self- and sinew-backed bows, tipped (stone or bone) and untipped cane arrows (simple or compound), wooden sabers, throwing clubs, and slings used for hunting birds and small game (Blackburn 1962-1963).

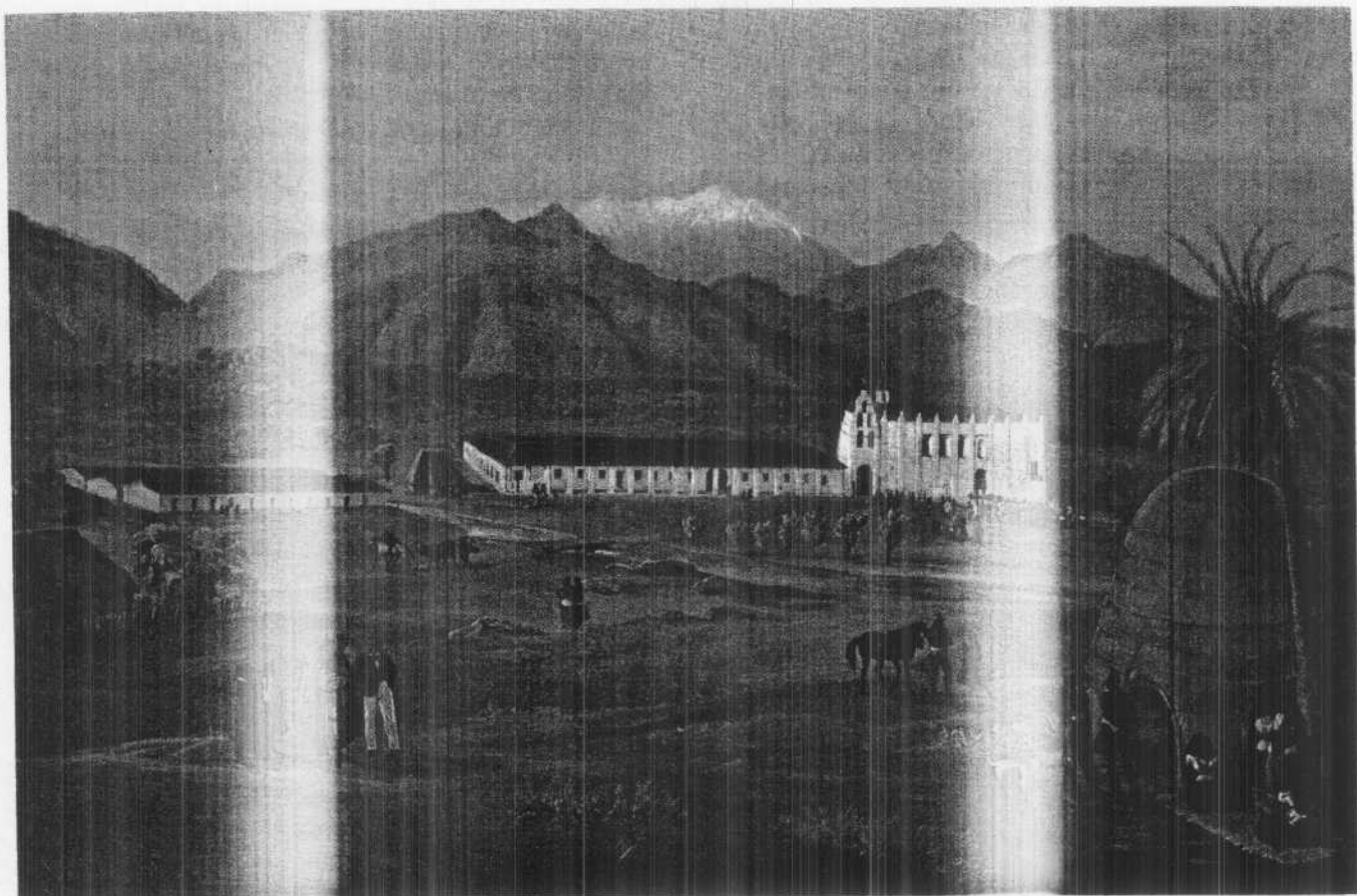
### Structures

Houses were domed, circular structures thatched with tule, fern, or carrizo (fig. 4). For groups located near the sea, the doorways opened seaward, to avoid the north wind (Harrington 1942:10). B.E. Johnston (1962) noted that the Indians' houses were, in some cases, "so spacious that each will hold fifty people." On Santa Catalina, Costansó (1911) described houses of more than 60 feet in diameter, with three or four families living in each one. Other structures commonly found in villages included sweathouses (small, semicircular, earth-covered buildings used for pleasure and as a clubhouse or meeting place for adult males), menstrual huts, and a ceremonial enclosure, the *yuva'r*. A *yuva'r* was built near the chief's house and was essentially an open-air enclosure, oval in plan, made with willows inserted wicker fashion among willow stakes, decorated with eagle and raven feathers, skins, and flowers, and containing inside the enclosure painted and decorated poles. Consecrated anew before every ceremony, these ceremonial enclosures were the centers for activities relating to the Chingichngish cult. An image representing the god Chingichngish occupied a special "sacred" area within the *yuva'r*, and on the ground near the image was a sand painting representing the cosmos, with figures of the Sun and Moon predominating. Only very old men or very powerful ones (chiefs, priest-shamans) were allowed in this inner sanctuary. Another building, similar in structure and design to the *yuva'r* but never consecrated, was sometimes built and used for instruction and practice for upcoming ceremonies (Blackburn 1962-1963; Heizer 1968).



Dept. of Anthr., Smithsonian: top, 382666; bottom, 18349.

Fig. 3. Soapstone artifacts with carved grooves, possibly comals. Used to heat water in baskets, the hot stone was manipulated by a stick through the hole. top, Length 15 cm, collected at San Clemente Island; bottom, same scale, collected at Santa Barbara Island.



Santa Barbara Mission, Calif.

Fig. 4. Mission San Gabriel Arcangel with thatched Indian house in foreground. Painted by Ferdinand Deppe, 1832, after his sketch made June 1828 during a Corpus Christi procession.

### *Social and Political Organization*

The intricacies of Gabrielino social organization are unknown, and only a rudimentary outline of basic

organizational features can be presented. It appears that a moiety system similar to that of other southern California Tatic speakers existed, but it seems not to have functioned viably in controlling socioeconomic interrelationships.

Almost nothing is known of the nature and texture of adult life among the Gabrielino. There seem to have existed at least three hierarchically ordered social classes: an elite (having a specialized language) including chiefs and their immediate family and the very rich; a middle class, or those from fairly well-to-do and long-established lineages; and a third class comprising everyone else, with those individuals engaged in ordinary socioeconomic pursuits. Some individuals owned real estate, and property boundaries were marked by painting a copy of the owner's personalized tattoo on trees, posts, and rocks. These marks were almost equivalent to the owner's name and known not only to other Gabrielino but also in many cases to members of non-Gabrielino groups. Engelhardt's (1927a:100) comment that pictures of animals were drawn on tree trunks may refer to this boundary-marking process.

Villages (that is, tribelets) were politically autonomous, composed of nonlocalized lineages, often segmentary in



Title Insurance and Trust Company, Los Angeles.

Fig. 5. Village at Jurupa Rancho, base of Mt. Rubidoux, near San Bernardino inhabited by Cahuilla, Serrano, and probably some Gabrielino refugees. Photograph by C.C. Pierce, 1890.



nature. Each lineage had its own leader and at various times during the year fragmented into smaller subsistence-exploitation units that went out seasonally to collect resource items and then return to the villages.

The dominant lineage's leader was usually the village "chief" (*tumia'r*) whose authority was legitimized by the possession of the sacred bundle, the link between the sacred past and the present and the material, temporal representation of the Gabrielinos' *raison d'être* and the primary embodiment and focus of "power." Often several villages were allied under the leadership of a single chief. For example, at San Pedro the largest village, *ṣua'ṇa* 'place of the skies', was the political center for a cluster of other villages located nearby and its chief was the political leader for these associated villages. Succession to chiefly office was usually through the male line, a chief's eldest son assuming the office subject to community approval. If a direct line-of-descent male replacement was unavailable or unacceptable, a new chief was selected by the community elders from the same kin group as the previous chief. If there were no satisfactory male candidates, a woman, usually a sister or daughter of the previous chief, was appointed. According to Hugo Reid, regardless of who became the new chief, his or her name was changed to correspond to that of his or her village, with the addition of a special suffix (Heizer 1968).

New chiefs occasionally had more than one wife, were about 30-35 when they became chief, and often were the political heads of multiple village confederations. A chief's most important duties were to administer community solidarity and welfare and to act as the guardian of the sacred bundle. In the former sphere of action the chief arbitrated disputes, supervised tax collections ("gifts" from the people used principally for consumption by guests at ceremonies), led war parties, concluded peace treaties, and acted as the "model" Gabrielino. To help in these activities, the chief had several assistants: an announcer, treasurer, general assistant (who often delivered moral lectures to the people), and messengers (usually two, with excellent memories, especially trained and kept until they "wore out").

In addition to the chief, others who held authority positions within the community were shamans and the *ta'xk'a'*. The latter was responsible for the management of the elaborate mourning ceremonies among other things and oversaw the distribution of food following communal hunts. But it was with the shamans that perhaps the greatest power existed, sometimes even greater than the chief's. For, as Reid pointed out, even chiefs had no jurisdiction over shamans because they "conversed with the Great Spirit" and could be punished only by other shamans.

### *Shamanism*

A shaman obtained his power directly from the supernatural through dreams or visions, often caused by the

ingestion of datura. During these trancelike states an animal or object with energizing power would appear to the person and henceforth be his power aid. Following this stage, the prospective shaman entered a period of apprenticeship under proved shamans and was taught various aspects of the profession.

A shaman served mainly his own village and possessed the ability to cause as well as cure illness. Curing was accomplished by various techniques (herbal therapeutics, body manipulation, bloodletting, sucking, blowing smoke, hypnosis) and a wide variety of magical, power-invested paraphernalia. The basic instrument was a board with rattlesnake rattles attached to it (Blackburn 1962-1963) worn by the shaman, plus dried animal skins, curiously shaped rocks, plant roots, sparkling stones, rare minerals, as well as surgical implements such as obsidian blades. These objects not only were considered as having power in and of themselves but also were felt to be particularly efficacious in concentrating power in a particular area.

In addition to their function as curers, shamans also served as diviners, guardians (supernatural) of the sacred bundle, locators of lost items, collectors of poisons used on hunting and war arrows, and rain makers. Most possessed second sight, several had the ability to transform themselves into bears (in order to travel rapidly) and to handle fire with impunity, and some were able to witch people living at great distances. For example, among the Fernandeano, a shaman wishing to witch or kill a person prepared a four-sided ground painting, roped it off, and then stood in the center holding 12 radiating strings, the ends of which were held by 12 assistants. When the shaman shook the strings, the ground quaked and the person he had in mind fell ill and could eventually die (Kroeber 1925:626).

However, if a shaman became too malevolent and practiced evil against his own people, other shamans convened and stripped him of his power. Women could also acquire considerable power and at least in one instance exert this power politically as in the case of Toypurina, who led a significant revolt during the eighteenth century against the Spanish at Mission San Gabriel (Temple 1958).

### *Life Cycle*

• **MARRIAGE** Information about aboriginal Gabrielino marriage and residence patterns is practically nonexistent, and what data are available are sketchy and confusing. It appears that marriages were usually between individuals of nearly equal social rank, especially in the case of leading families, with the marriage partners coming from different lineages (lineage exogamy). Occasionally parents, while their children were quite young,

would promise them in marriage (child betrothal), but usually "when a person wished to marry, and had selected a suitable partner, he advertised the same to all his relations, even to the *nineteenth cousin*. On a day appointed . . . they [the males] proceeded in a body to the residence of the bride," where she and all her female relations were assembled, and presented shell beads to the bride's relatives (Heizer 1968:25). A few days later the bride's female relatives visited the groom-to-be's home, presented his male relatives with food stuffs, and set the date for the wedding ceremony. On the appointed day the bride, adorned with beads, paints, feathers, and skins, was carried by her relatives to her future husband's home. Friends and neighbors accompanied the bridal party singing, dancing, and strewing the ground with gifts. Halfway to the groom's house the procession was met by his relatives who took on the role of carrying the bride the rest of the way. Upon arrival, the bride was placed beside her new husband, and baskets of seeds were liberally poured over both bride and groom to signify a rich and bountiful future life. A festive dance was held at which warriors and hunters performed in full costume; then everyone departed leaving the couple "to enjoy their 'Honey Moon' according to usage." From this date forward the wife was forbidden to visit her relatives, but they could call on her at any time (Heizer 1968:26).

Except in the case of chiefs who practiced polygyny, a man usually took only one wife at a time. If, during the course of married life, a husband ill used his wife, she could complain to her family, who would return to the husband his family's "bridal gifts," and the woman was then free to return to her own home. If a wife was barren or unruly, her husband could send her home and his family's "gifts" would be returned. In the case of a wife's infidelity the husband could beat or kill his wife or, if possible, claim the wife of his wife's lover.

The Gabrielino traced their most important kinship ties through males (patrilineal descent) with an individual's social rank, value, and status in part dependent upon wealth possession (family and self) and heredity. Sharp distinctions were made between families in different classes both within and beyond the lineage. In the kinship terminology, what little data are available suggest a Dakota system with Iroquois cousin terminology.

• **BIRTH** Every time a woman gave birth both she and the child were ritually purified by sweatbathing for three consecutive days. During this period certain dietary restrictions were observed by the mother, and not until her child could run was she free to share her husband's bed (Heizer 1968).

The birth of a child to a chief was an occasion of special ritual and included dancing by old women who lauded the newborn's future renown and a ceremonial washing of the baby. Children were treated with such

love, devotion, and fondness by their parents that the Spanish missionaries were astounded and commented that the children were treated like "little idols" (B.E. Johnston 1962).

• **PUBERTY** As a child grew she or he was expected to show deference to those older—never to pass between adults or to interrupt their conversation. When a girl reached puberty—an occasion for joy and happiness—she underwent a purification ceremony similar to that of women at childbirth. During the ceremony she was the center of dancing and singing in her honor and was formally presented to society as an eligible, marriageable woman. She was not allowed to eat meat during the ceremony; was lectured on proper female conduct (in order to insure her popularity); and was instructed to be industrious, bathe daily, be hospitable, and be without deceit at all times. During the ceremony a sand painting was made depicting certain cosmological-supernatural beings, the significance of whom was explained to the young woman so she could better understand her place, role, and function (as well as that of her society in general) in the overall scheme of creation.

It is not known with certainty if all young males underwent a puberty ceremony. Blackburn (1962-1963:34) notes that some adolescent boys were involved in a complex ceremony, one resembling the toloache cult of their neighbors. While there is little specific documentation concerning the Gabrielino cult, all indications point to Santa Catalina Island as the traditional home of the Luiseño, Cahuilla, and Cupeño toloache ceremonies (Kroeber 1925:620); and it is assumed that their toloache rituals are survivals of a much more elaborate Gabrielino ceremony.

• **DEATH** When an important person died a piece of flesh from his or her shoulder was eaten, the person so doing gaining some of the deceased's power while the deceased was assured of a quick passage to the heavens to become a star (B.E. Johnston 1962; Harrington 1920-1930). This was in contrast to ordinary people who, when they died, went underground and danced and feasted forever. On the mainland the corpse was wrapped in a blanket (one used by the deceased during life); relatives assembled for ritual wailing and dancing; and after three days the corpse, along with most of the deceased's personal possessions, was burned. This disposal practice was in contrast to that practiced by at least one of the island groups, those of Santa Catalina. Here the dead were buried with artifacts used during life; the recurrence of certain tools in certain assemblages may indicate that there were vocational guilds on the island. Often dogs would be buried over the body.

Those possessions of the deceased not destroyed or buried were kept for use in the annual mourning ceremony, the biggest event celebrated in the year. Held in

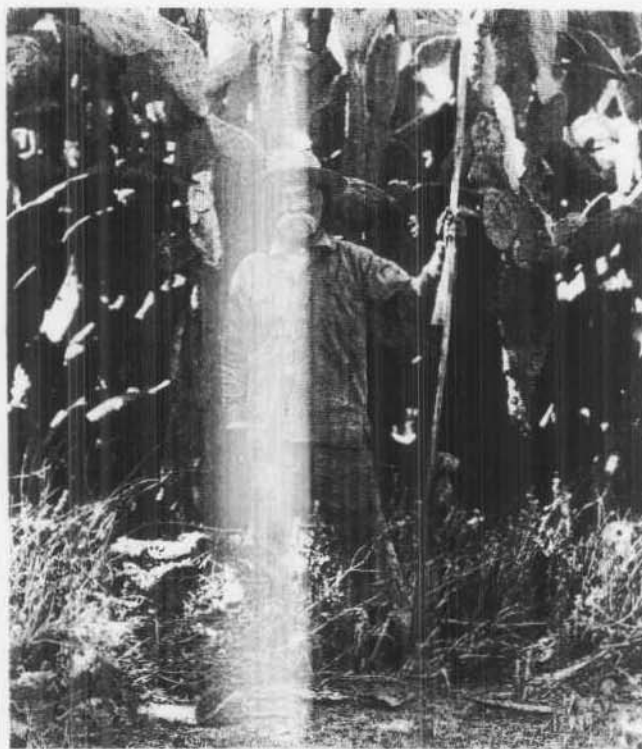
the fall following the acorn harvest, eight days were spent instructing the inexperienced in correct ceremonial procedure, songs, and dances (Harrington 1920-1930). The beginning of the ceremony was signaled by the construction or consecration of the *yuva'r*, the special ceremonial enclosure, followed by ceremonial feasting. Over the next seven days there was a great deal of visiting, dancing, singing, and feasting. Dancers, adorned with hawk and eagle feathers and with their faces, necks, and thorax painted, reenacted various sacred time events, their movements governed by shaman-priests, who watched from the sidelines. On the fourth day a ritualist brought forth all the children born during the year and the chief gave them names selected from their fathers' lineages. On the fifth day life-size images of the deceased were made, the men's images usually decorated with bows and arrows, the women's with baskets. Either on the evening of the fifth day or during the sixth day, an eagle-killing ceremony was held accompanied by special dances and songs.

In the predawn light of the eighth day the images were brought into the *yuva'r*, carried by the dancers while they performed, then thrown onto a fire along with personal items saved at the time of death. The annual mourning ceremony is one of the typical elements of California culture and possibly developed from the Gabrielino and spread to most, if not all, other southern California groups.

#### *Subsistence*

Men carried out most of the heavy but short-term labor; they hunted, fished, assisted in some gathering activities (fig. 6), conducted most trading ventures, and had as their central concerns the ceremonial and political well-being of their families and homes. Large land mammals were hunted with bow and arrow, while smaller game were taken with deadfalls, snares, and traps. Burrowing animals were smoked from their holes and clubbed to death, while rabbits were taken in communal hunts with nets, bow and arrows, and throwing clubs (Blackburn 1962-1963:24). For hunting sea mammals harpoons, spearthrowers, and clubs were used. Deep-sea fishing or trading expeditions between island and mainland were undertaken from boats made of wooden planks lashed and asphalted together. However, most fishing was carried out from shore or along rivers, streams, and creeks and involved the use of line and hook, nets, basketry traps, spears, bow and arrow, and vegetal poisons.

Women were involved mainly in collecting and preparing most floral and some animal food resources and production of baskets, pots, and clothing. When old, they shared with old men the task of teaching, supervising, and caring for the young (Blackburn 1962-1963; B.E. Johnston 1962).



Title Insurance and Trust Company, Los Angeles.

Fig. 6. Rojerio, chorister at Mission San Fernando, gathering cactus fruit. Photograph by C.C. Pierce, July 1898.

#### **External Relations**

##### *War*

Although nineteenth-century writers often characterized the Gabrielino as timid and peaceful, the earlier chroniclers paint a different picture. A state of constant enmity existed between some coastal and prairie-mountain groups. Engelhardt (1927a:20) noted that intervillage conflicts among the Gabrielino were so frequent and of such intensity that inland Gabrielino were effectively prevented by coastal Gabrielino from reaching the sea for fishing and trading purposes. This concern with war as more than a defensive or rare occurrence is further supported by the occurrence of reed armor, war clubs, swords, and large and heavy bows used for warfare, as well as the hunting of big game. While these "wars" were not lengthy, they were deadly and often involved several villages. Those villages allied through marriage ties (and hence economic and religious bonds) usually actively supported one another in armed conflicts. Furthermore, it was not uncommon for a village planning a "war" to send ceremonial gifts to villages with whom it did not have close ties in hopes either of entering into an alliance of mutual help or at least of ensuring the villages' neutrality.

Armed conflict could arise for a number of reasons: failure of a chief to return a gift during a ceremony (that is, breaking the economic reciprocity system), abduction



of women, trespassing, or sorcery (it was generally assumed that neighboring groups were using supernatural powers for harm). In the event of potential conflict, a war council was called by an official crier (smoke signals were also used to call people from distant villages) with all potentially involved villages attending, and the pros and cons of going to war discussed. A decision to go to war was not lightly made, since warfare involved not only the warriors, but also old men, women, and even children. The chief led the war party and, while on maneuvers, was followed in order by able-bodied warriors, old men, women, and then the children, the last two groups carrying the food and supplies (Heizer 1968).

Every attempt was made to surprise the enemy, descending upon his villages and killing, or occasionally capturing, as many people as possible. Bows and arrows and war clubs were the primary instruments of warfare. The clubs were of hard, heavy wood, often with bulbous heads and sharp conical projections, with a length up to three feet. During battle the women gathered up arrows shot in their direction and gave them to the men to shoot back. Wounded, if left on the battlefield, were killed by the opposition. If prisoners were taken, their fate varied: males were tortured in front of the entire village population, beheaded, and scalped, the scalps later dried, cured, and placed on display in the *yuvair*. Women and children, if not also killed, were enslaved, their only chance of freedom being escape or recapture by their own people. Occasionally it was possible to buy back captives, but this seems to have been rare (Heizer 1968).

### Feuds

More common than warfare, and involving considerably less people, were the feuds that passed from father to son, often for many generations. Hostilities were vented through ritualized "song fights," some lasting as long as eight days. Songs, obscene and insulting in nature and sung in the vilest language possible, were accompanied by stomping and trampling the ground, symbolizing the subjugation of the opponent (Heizer 1968).

Interpersonal disputes were adjudicated by the village chief. If the dispute involved members of the same village, the chief heard testimony, examined evidence, then passed a binding judgment. If the quarrel involved parties from two different villages, each party's chief conducted a separate hearing among his own people, then met with each other to pass sentence. If they were unable to issue an acceptable joint statement, a third chief was summoned to hear the two chiefs' arguments, then make a final, unappealable judgment—unappealable, that is, short of open armed conflict or sorcery (Heizer 1968).

### Intermarriage

Yet by and large, interpersonal, intra- and intervillage relationships were amicable. Gabrielino villages were

often located immediately adjacent to non-Gabrielino ones, and intermarriage was common. For example, at Corona, the Gabrielino village of Paxauxa lay directly across Temescal Creek from a large Luiseño village, and intermarriage between the two was common. Forbes (1966) reports that the people of the Gabrielino village of Tongva intermarried with the people of at least 13 other villages, including Yokuts, Chumash, and Serrano. This arrangement is not unusual, since the Gabrielinos were part of a widespread ritual congregation union "which existed between all Cahuilla, Serrano, Luiseño, and Gabrielino clans" (Bean 1972; Strong 1929). Since this was the case, relationships were usually friendly among members of these different groups.

### Trade

Intra- and intergroup exchange was brisk and common, with people, goods, and ideas flowing in many directions and in some cases, for long distances. From the inland Serranos the coastal Gabrielinos obtained acorns, seeds, obsidian, and deerskins in exchange for shell beads, dried fish, sea otter pelts, shells, possibly salt, and steatite (obtained by coastal Gabrielinos from those living on the islands). Through middlemen located in interior southern California—such as Cahuilla, Chemehuevi, Mohave—shells from coastal sections controlled by Gabrielinos were traded as far east as central Arizona. Ruby has noted that Cibola White ware (A.D. 1000) from the Southwest has been found in Gabrielino territory, while shells and steatite have been found in Pueblo sites. It is likely that southern California and the Southwest "were engaged in a series of reciprocal exchanges, regularized by the establishment of trading partnerships . . ." (Ruby 1970:96, 266-267), perhaps as early as A.D. 600-800. Most trading was usually of the barter type, but when this was not feasible or desirable, strung olivella beads, considered legal tender throughout most of southern California, were used to transact business (Ruby 1970).

The principal trade item, both among the Gabrielino and for export to other groups, was steatite. Available in great quantities on Santa Catalina Island, steatite was traded, in rough or finished form, to many groups (Chumash, Yokuts, Ipai-Tipai, Luiseño, Serrano, and via the Chumash to the distant Tubatulabal). Most of the steatite was used to make palettes, arrow straighteners, ornaments, and carvings of animal or animallike beings. From archeological and ethnographic accounts it would appear that the Gabrielino received traders, possibly at trading centers, from other groups rather than journeying out to distant peoples (Harrington 1920-1930). In some business transactions knotted cords were used as mnemonic devices for recalling figures and quantities and intricacies of past or pending transactions.

Perhaps the most important "item" originating in the Gabrielino territory that found its way to non-Gabrielino groups and significantly influenced them was the set of

associated religious beliefs and rituals called the Chingichngish cult (see "Cults and their Transformations," this vol.).

## Religion

Less is known concerning the Gabrielino religious system and beliefs than those of their neighbors. Several different creation stories exist. One relates to the god Qua-o-ar—compare the Luiseño-Juaneño *kʷáʔuwar*, one of their names for Chingichngish (Harrington 1933b:139, phonemicized). He created the world out of chaos, fixing it upon the shoulders of seven giants created for this purpose (Heizer 1968:19). Following this, Qua-o-ar created animals and then humans from earth, and then ascended to the afterworld. B.E. Johnston (1962:41) recorded a different creation story whose prime characters were Heaven and Earth. The two were respectively brother and sister who, through six different creations, made all of the world; then Earth gave birth to Wiyot (*wuyot*), "an animate being, but different from the rational kind, and irrational" (B.E. Johnston 1962:41). Wiyot ruled the people for a long time but eventually was killed by his sons because of his cruelty. Following his death, the people met to discuss what things in the world could be used as food. As they enumerated the wild food "a new leader appeared to them, at first seeming like a phantom or an evanescent vision . . . announced himself as a greater chief [than Wiyot]. . . . He called himself Chungichnish [Chingichngish†] and gave a great speech in which he set the future course of tribal law and religion. [He] delegated powers and responsibilities to certain persons [shaman-priests]. . . . The god also created out of mud . . . a new race" of people and instructed them in new life-ways. Following this, Chingichngish began to dance and slowly ascended into heaven (B.E. Johnston 1962:42–44).

By the time the Spanish arrived in Gabrielino territory the belief in Chingichngish had apparently spread to neighboring non-Gabrielino groups (Luiseño, Ipai-Tipai, Cupeño, Juaneño), becoming intimately involved with the toloache cult. The belief in Chingichngish had become highly formalized and ritualized involving the erection of "temples" (sacred enclosures where elaborately decorated poles and banners were erected and an image of Chingichngish was placed) into which only old men possessing great "power" could enter, lengthy and elaborate ceremonies, and offerings of food and goods not only to Chingichngish but also to Sun and Moon (B.E. Johnston 1962).

The exact nature of Sun and Moon are not known, but they have enjoyed almost as much attention and devotion

as Chingichngish. Whenever sand paintings ("maps" of the Gabrielino cosmology) were made, representations of Sun and Moon figured predominantly in them (Harrington 1920–1930). In addition to these cosmological beings, the Gabrielino also recognized the sacred beings characterized as Crow, Raven, Owl, and Eagle. The Eagle emerges as a central figure in the remote past, a great and wise chief who, when dying, told the people he would become an eagle whose feathers were to be used in all rituals (Harrington 1920–1930; Kroeber 1925).

Little else is known about Gabrielino mythology. In the few stories, often of fragmentary nature or imbued with non-Gabrielino (European) elements that survive, predominant themes include revenge, transformations to escape bad events, severe punishments for selfishness or disrespect, and "deliberate or artistic incoherence, both as regards personages and plot" (Kroeber 1925:625).

Prime life values included respect for age, maleness, and above all, secrecy: "Whenever they tell the truth they think some slight damage may result to them or they might lose something good. They conceal it [truth] every way. In this matter, they have no other motive than their own convenience" (Engelhardt 1927a:104).

The four cardinal directions (North, East, South, West) were named, while the year was divided into two parts (according to the solstices) with 10 moons. Several stars were named (usually animal names), the Pleiades were considered to be sacred time maidens, rainbows conferred good luck while ball lightning conferred bad luck, whirlwinds were evil spirits, and springs and lakes the dwelling places of potentially malevolent spirits (B.E. Johnston 1962; Heizer 1968).

## Synonymy

The Gabrielino of the Los Angeles area called themselves *kumi'vit* (cf. *kumi'* 'east') and were so referred to by the Fernandinos, who were known to the Gabrielino as *paše'k'arum* (cf. *paše'k'ga* 'San Fernando').

The Spanish group name Gabrielino first appears, spelled Gabrileños, in a report by Loew (1876) and has been intermittently applied to the aboriginal inhabitants of the Los Angeles area since that time. Another spelling is Gabrieleño (Hodge 1907–1910, 1:480). Other names, for which Hodge gives some early attestations, are Kij (B.E. Johnston 1962); Kizh (Heizer 1968); Tobikhars (B.E. Johnston 1962); and *tumámqamalum*, a Luiseño word related to *tumá'mik* 'north' (though 'northerners' in general is *tumámkawčum*) (William Bright, personal communication 1974; Kroeber in Hodge).

## Sources

The major published sources on Gabrielino are B.E. Johnston (1962), the published forms of the Hugo Reid letters that contain valuable footnotes (Heizer 1968; W.J.

† Chingichngish and Chungichnish are spellings of the Luiseño name *činičnīš* (dialect variant *čaničnīš*); no corresponding Gabrielino name has been recorded.



Hoffman 1885), Engelhardt (1908-1915, 1927, 1927a), Harrington's culture element distribution list (1942) and work on Chingichngish (1933b), Kroeber (1925), and Blackburn (1962-1963). Various articles in *Masterkey* and the UCLA Archaeological Survey Reports should be consulted.

The principal archival collections containing ethnographic, linguistic, and historical data are at the University of California, Berkeley (A.L. Kroeber Papers, C.H. Merriam Collection); Huntington Library, San Marino, California (H.N. Rust Collection); Los Angeles County Museum of Natural History (especially the Thomas W. Temple Collection); the National Anthropological Archives, Smithsonian Institution, Washington, D.C. (J.P. Harrington Collection contains the largest amount of ethnographic and linguistic data on the Gabrielino); and the Southwest Museum, Los Angeles (especially Bernice

E. Johnston Collection). Artifacts are described in detail by Blackburn (1962-1963) and are housed at various institutions throughout the United States—Los Angeles County Museum of Natural History; Santa Barbara Museum of Natural History, California; Lowie Museum of Anthropology, University of California, Berkeley; San Diego Museum of Man, California; Peabody Museum of Archaeology and Ethnology, Cambridge, Massachusetts; Field Museum of Natural History, Chicago; Museum of the American Indian, Heye Foundation, New York; and Smithsonian Institution. In Europe there are artifacts in the Musée de l'Homme, Paris. Photographs of Gabrielino peoples are rare and most are in local or private collections. The Southwest Museum and the C. Hart Merriam Collection have a few photographs of Gabrielinos taken around 1900 plus a few sketches from the late Mexican period.

# Handbook of North American Indians

WILLIAM C. STURTEVANT

*General Editor*

VOLUME 8

# California

ROBERT F. HEIZER

*Volume Editor*



SMITHSONIAN INSTITUTION

WASHINGTON

1978

Copyright © 1978 by Smithsonian Institution  
All rights reserved.

For sale by the Superintendent of Documents,  
U.S. Government Printing Office, Washington, D.C. 20402.  
Stock Number: 047-000-00347-4

**Library of Congress Cataloging in Publication Data**

Handbook of North American Indians.

Bibliography: pp. 721-768

Includes index.

CONTENTS:

v. 8. California.

1. Indians of North America. 2. Eskimos.

I. Sturtevant, William C.

E77.H25 970'.004'97 77-17162

# Luiŕeño

LOWELL JOHN BEAN AND FLORENCE C. SHIPEK

## Language

The term Luiŕeño (lōōwī'sā,nyō) derives from the mission named San Luis Rey and has been used in southern California to refer to those Takic-speaking people associated with Mission San Luis Rey. The term Juaneño (hwā'nā,nyō) derives from Mission San Juan Capistrano and has been used to refer to the Takic speakers associated with that mission. These designations have been used since the Spanish occupation of California. Although Kroeber and Harrington separated Juaneño and Luiŕeño on the basis of linguistic differences, later studies (R.C. White 1963:91) indicate that they are ethnologically and linguistically one ethnic nationality, which here will be termed Luiŕeño.

The Luiŕeño language (along with Cupeño, Cahuilla and Gabrielino) belongs to the Cupan group of the Takic subfamily (Bright and Hill 1967; W.R. Miller 1961; Bright 1975). This subfamily, which also includes Serrano and Kitanemuk, all of southern California, was earlier called Southern California Shoshonean; it is part of the widespread Uto-Aztecan family.

Like most California groups, the Luiŕeño probably had no name for their own nationality, although they may sometimes coin names to satisfy outside investigators. Quechnajuichom and Puyumkowitchum, suggested as possible names for themselves (True 1966:43), seem not to be. The former is a Spanish spelling of *qéčnaxwíčum* 'people of San Luis Rey Village', and the latter is presumably *payó'mkawčum* 'westerners' (probably as used by inland Luiŕeños to refer to coastal dwellers).\*

## External Relations

The development of a separate Luiŕeño culture is clearly evident in archeological patternings that are locally distinct. This complex, which has been divided into San Luis Rey I (A.D. 1400-1750) and II (A.D. 1750-1850), shows the long-term development of a society that in the second era added components (for example, pottery and

cremation urns) from neighboring groups (Meighan 1954).

External relations with neighboring ethnic nationalities were conservative. The Luiŕeño tended toward an isolationist policy except when expanding, which they did through warfare and marriage. They were considered by their neighbors to be dangerous and warlike expansionists, an opinion supported by their more highly developed warfare structure incorporating war leadership duties in the hands of the *nó't*, or chief, and an initiated warrior class.

The Luiŕeño shared boundaries with the Cahuilla, Cupeño, Gabrielino, and Ipai peoples on the east, north, and south respectively. The Cahuilla, Gabrielino, and Cupeño share cultural and language traditions with the Luiŕeño. The Yuman Ipai have a different linguistic and cultural background but shared certain similarities in social structure (patrilineality as a basic form of social organization) and exchanged some religious practices with the Luiŕeño.

Luiŕeño social structure and philosophy were similar to the other Takic-speaking tribes, but they diverged in having a more rigid social structure and greater population density. The differences are clearly seen in: (1) extensive proliferation of social statuses, (2) clearly defined ruling families that interlocked various rancherías within the ethnic nationality, (3) a sophisticated philosophical structure associated with the taking of hallucinogenics (*datura*), and (4) elaborate ritual paraphernalia including sand paintings symbolic of an avenging sacred being named Chingichngish (*čingičhiš* or *čahičhiš*). The common spelling Chinigchinich for this name copies an eighteenth-century attempt to write the Juaneño form *čingičhič* (Boscana 1933).

## Territory and Environment

The territory of the Luiŕeño comprised 1,500 square miles of coastal southern California (R.C. White 1963:117). Along the coast it extended from about Agua Hedionda Creek on the south to near Aliso Creek on the northwest. The boundary extended inland to Santiago Peak, then across to the eastern side of the Elsinore Fault Valley, then southward to the east of Palomar Mountain, then around the southern slope above the valley of San Jose.

\* The orthography used for Luiŕeño words here is that of William Bright (1968). The preceding two paragraphs are based on data provided by him. The spellings of Luiŕeño words in the text have been corrected by Bright, Sandra L. Chung, or Pamela Munro, with the assistance of Villiana Hyde. None of them was able to identify the ritual here called *aputs*.



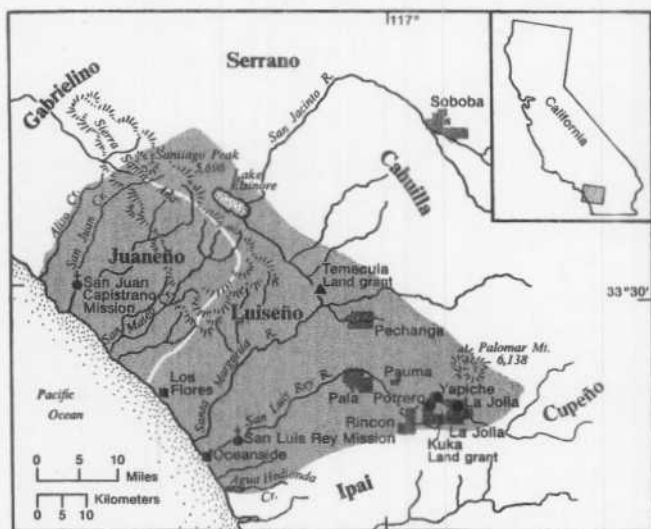


Fig. 1. Tribal territories with reservations and land grants.

From there the boundary turned west and returned to the sea along the Agua Hedionda Creek (fig. 1).

The territory of the Luiseño (excluding the Juaneño) included most of the drainage of the San Luis Rey River and that of the Santa Margarita River immediately to the north. Their habitat thus covered every ecological zone from the ocean, sandy beaches, shallow inlets, marshes, coastal chaparral, lush interior grassy valleys, extensive oak groves, up to the pines and cedars on the top of Mount Palomar. The Juaneño portion extended from the sea to the crest of the southern continuation of the Sierra Santa Ana. For the Luiseño as a whole, territorial elevations ranged from sea level to 6,000 feet on top of Mount Palomar.

Summer temperatures averaged from below 68° F. at the coast to above 85° inland, while winter temperatures averaged about 52° along the coast to 40° in the mountains. The average annual precipitation varied significantly, ranging from below 15 inches at the coast to 40 inches at Palomar Mountain. The Hot Steppe is the prevailing climate type found along the coast and extends inland along the river valleys into Riverside Basin. The uplands of the Santa Ana Mountains and Palomar Mountain had a warm Mediterranean-type climate with summer thunderstorms and winter snowfalls over Palomar Mountain. This diverse environment provided a more abundant and variable subsistence than most areas in southern California.

#### Settlement Pattern

Sedentary and autonomous village groups, each with specific hunting, collecting, and fishing areas, were located in diverse ecological zones. Typically these were in valley bottoms, along streams, or along coastal strands near mountain ranges. Villages were usually in sheltered coves or canyons, on the side of slopes in a warm thermal

zone, near good water supplies, and in defensive locations.

Each village area contained many named places associated with food products, raw materials, or sacred beings. Each place was owned by an individual, a family, the chief, or by the group collectively. Trails, temporary campsites, hunting sites, areas for rabbit or deer drives, quarry sites, and areas for ceremonial use and gaming are examples of places owned by the community as a whole.

Group economic activities were restricted to the particular areas owned by the village, and family gatherings were confined to family-owned areas. Only with the express permission of the other group or family could gathering be done on territory other than one's own. Most inland groups also had fishing and gathering sites on the coast that they visited annually when tides were low or when inland foods were scarce from January to March. Each year for the acorn harvest (October–November) most of the village population would settle for several weeks in the mountain groves to collect acorns, hunt game animals, and collect whatever else was locally available. However, most of the Luiseño foods were available in locations within a day's travel of the village.

#### Culture

##### Ownership and Property

Ownership and property, both tangible and intangible, ranged from communal, that is, village, to personal property. At the most general level all members of the village collectively owned the whole area and all its contents. Trespass against this property was explicitly forbidden, boundaries were marked, and the area was protected by physical combat as well as supernatural means. Trespass was a major cause for war.

Within these collectively owned areas, the village chief supervised specific areas for group hunting and gathering. The produce from these areas was under the chief's control and was used for public occasions. R.C. White (1963:124) also describes "gardens" that were owned by individual household groups for subsistence, for example, clusters of cactus, oak trees, other food plants, medicines, or tobacco. These privately owned areas, also with marked boundaries, were inherited patrilineally or could be given to another by the owner. The concept of private property was important and violation of trespass on these areas was seriously punished.

Other private property included the house (owned by a family head), capital equipment, treasure goods (ritual equipment, ceremonial and trade beads, other ceremonial paraphernalia), eagle nests, songs, and other nonmaterial possessions. Individual material possessions were usually destroyed upon the death of an individual, so that his spirit could take all to the spirit world. Songs and knowledge had generally been taught to a successor—a son, son-in-law, or nephew—who had shown the pre-

requisite innate abilities to handle that form of knowledge.

### Subsistence

The principal game animals were deer, rabbit, jackrabbit, woodrat, mice and ground squirrels, antelope, valley and mountain quail, doves, ducks, and other birds, including some songbirds. Most predators were avoided as food as were tree squirrels and most reptiles. Coastal marine foods included sea mammals, fish, crustaceans, and mollusks (especially abalone). Trout and other fish were caught in mountain streams (Sparkman 1908:200).

Acorns were the most important single food source; six species were used. Villages seem to have been located near water resources necessary for the leaching of acorns. Grass seeds were the next most abundant plant food used. Other important seeds were manzanita, sunflower, sage, chia, lemonade berry, wild rose, holly-leaf cherry, prickly pear, lamb's-quarters and pine nuts. Seeds were parched, ground, and cooked as a mush in various combinations according to taste and availability. Greens such as thistle, lamb's-quarters, miner's lettuce, white sage, and tree clover were eaten raw or cooked or sometimes dried for storage. Cactus pods and fruits were used. Thimbleberries, elderberries, wild grapes, and wild strawberries were eaten raw or dried for later cooking. Cooked yucca buds, blossoms, and pods provided a sizable increment to the food resources. Bulbs, roots, and tubers were dug in the spring and summer and usually eaten fresh. Mushrooms and tree fungi provided a significant food supplement. Various teas were made from flowers, fruits, stems, and roots for medicinal cures as well as beverages. Tobacco and datura (or toloache; Luiseno *nágtumúš*) were collected for sacred rituals because of their hallucinogenic qualities and were also used as medicines.

Fire was used as a crop-management technique as well as for community rabbit drives. The annual return from certain wild foods and useful plants—grass seed, some greens, yucca, and basket grasses—was maintained by burning at least every third year.

### Food Sources

|                            | Inland Bands       |         | Coastal Bands      |         |
|----------------------------|--------------------|---------|--------------------|---------|
|                            | R.C. White<br>1963 | Revised | R.C. White<br>1963 | Revised |
| Acorns                     | 25-50%             | 25-45%  | 10-25%             | 15-25%  |
| Seeds                      | 15-25              | 20-40   | 5-10               | 20-40   |
| Greens                     | 10-15              | 10-12   | 5-10               | 5-10    |
| Bulbs, roots, fruits       | 10-15              | 10-13   | 10-15              | 10-15   |
| Game                       | 15-25              | 15-20   | 5-10               | 5-10    |
| Fish and marine<br>animals | 0-5                | 0-5     | 50-60              | 20-35   |

### Technology

Tools for food acquisition, storage, and preparation included an extensive inventory made from widely available materials. A few items were traded from specific localities, such as steatite bowls from Santa Catalina Island and obsidian blanks or points from either northern or eastern neighbors.

Hunting was done both individually and by groups. A shoulder-height bow was used with fire-hardened wood or stone-tipped arrows, which were carried in a skin quiver. Felsite and quartz points were made using deer-antler flakers. Deer were stalked with deer-head decoys or were tracked and run down. Community deer drives were held when quantities of meat were wanted. Small game was caught with the curved throwing stick (fig. 2), rabbit nets, slings, traps, or the spring-pole or pit type of deadfall.



Mus. of the Amer. Ind., Heye Foundation, New York: 5/468.

Fig. 2. Luiseno wooden throwing stick for hunting rabbits. Length about 65 cm, collected before 1916.

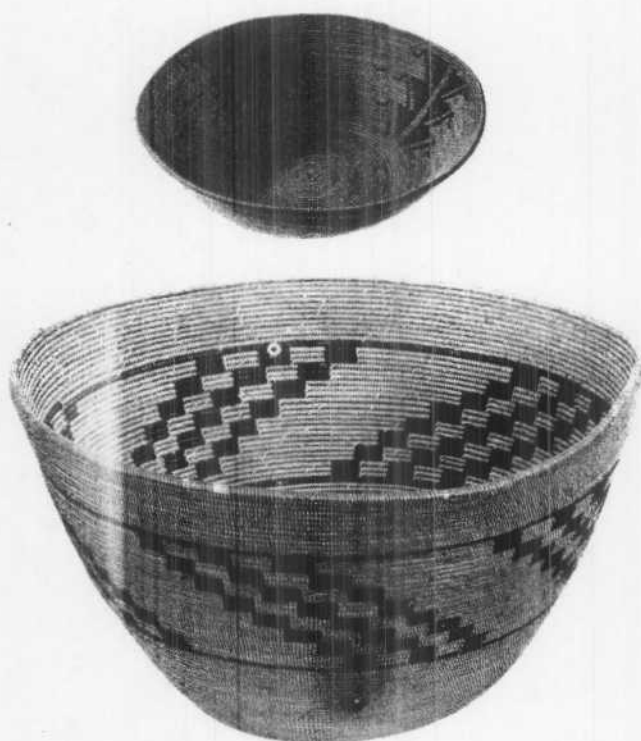
The bows for war were similar to those for hunting. In addition to the bow and arrow, weapons included a small hand-thrusting war club, large war clubs, broad-bladed thrusting sticks, lances, and slings.

Near shore ocean fishing was done from light balsa or dugout canoes. Seines, basketry fish traps, dip nets, hooks of bone or haliotis shell, and possibly harpoons were used. Mountain-stream fish were caught with traps, nets, or poisons.

Coiled and twined baskets were used in food gathering, preparation, storage, and serving (fig. 3). The basket type, shape, and size varied according to the purpose for which it would be used: small hand-held berry and bird-egg-gathering baskets, water-carrying bowls, storage baskets, and large round-bottomed carrying baskets. Coiled baskets were usually decorated with a darker tan, red, or black geometric design. These were very finely and artistically made and are to be found in many collections under the general area term "Mission Indian baskets" (Kroeber 1924).

A large shallow tray was used for winnowing chaff from grain or for sorting coarse from finely ground meal. Openwork twined baskets were used for leaching tannic acid from acorn meal. Basins formed in fine sand could also be used for leaching acorn meal.

Depending upon the size and quantity of the items to be stored, clay and basketry storage containers varied in



Dept. of Anthr., Smithsonian: top, 313023; bottom, 313172.

Fig. 3. Coiled baskets. top, Juaneño meal tray; bottom, Luiseño feast basket with black elder-dyed design. Diameter of top 38 cm, collected in 1900.

size from small bowls to baskets or jars large enough to hold several bushels. Acorn granaries were made of intertwined willow boughs set on a flat rock base.

Net pouches of two-ply cordage were made for handling the fruit and young pads of cactus. Net or skin pouches and bags were also used to carry small game and other foods. Large back-carrying nets were used with a tumpline around the forehead bearing on a coiled basket cap. Infants were carried on a cradleboard frame made of willow boughs.

Seeds were ground with handstones on shallow unshaped basin metates of fine-grained granite (fig. 4). The same granites were made into shaped or unshaped mortars and pestles for pounding acorns or small whole game. Bedrock mortars and metates were generally located near village sites, especially inland. A basket hopper was attached to new or shallow mortars. Medicines, tobacco, and datura roots were ground in stone bowls usually painted red and white for ritual purposes.

Food was cooked in wide-mouthed clay jars over fireplaces or in earth ovens wrapped with clay or leaves. Game was roasted in coals. Seeds were parched by shaking with coals in shallow pottery or basket trays; heated stones were dropped into food held in baskets, pottery jars, or soapstone bowls for boiling.

The pottery was made by paddle-and-anvil technique and fired in shallow open pits. Simple line decoration was either painted or incised with a fingernail or stick.

Decoration was rare. Relatively few shapes were made: shallow dishes, bowls, hemispherical bowls, wide- and narrow-mouthed jars, ladles and dippers, and miniatures. A double-mouthed pot was used as a water jar.

Other utensils for food preparation included wooden food paddles, brushes, tongs, tweezers, steatite bowls and cups, and wooden digging sticks. Also a variety of ground-stone, pressure-flaked, or percussion chipped-stone tools were made for cutting, prying, scraping, drilling, and pounding (True 1966).

Ritual equipment included small spherical sacred stone bowls for grinding and drinking datura or tobacco; ceremonial blades of obsidian, clay figurines with "coffee bean" eyes; sacred wands with abalone or crystal insets (fig. 5); ritual head scratchers for puberty ceremonies; eagle-feather headdress, dance skirts, and shoulder bands; head and hand plumes of owl or raven feathers, and ceremonial blades.

Shamans' equipment included tubular soapstone or clay pipes for smoking, purification, and sucking disease rituals. Some had enlarged bowls and cane stems. Shamans also had magical power stones of quartz, tourmaline, and other crystals; magical swallowing sticks; a syringe of deer bladder with a cane nozzle; and special shamans' bundles.

Other ritual equipment included the ground paintings representing the cosmology, image of sacred beings, and of deceased persons; funeral pyre and cremation pits; funeral poles; and offering baskets.

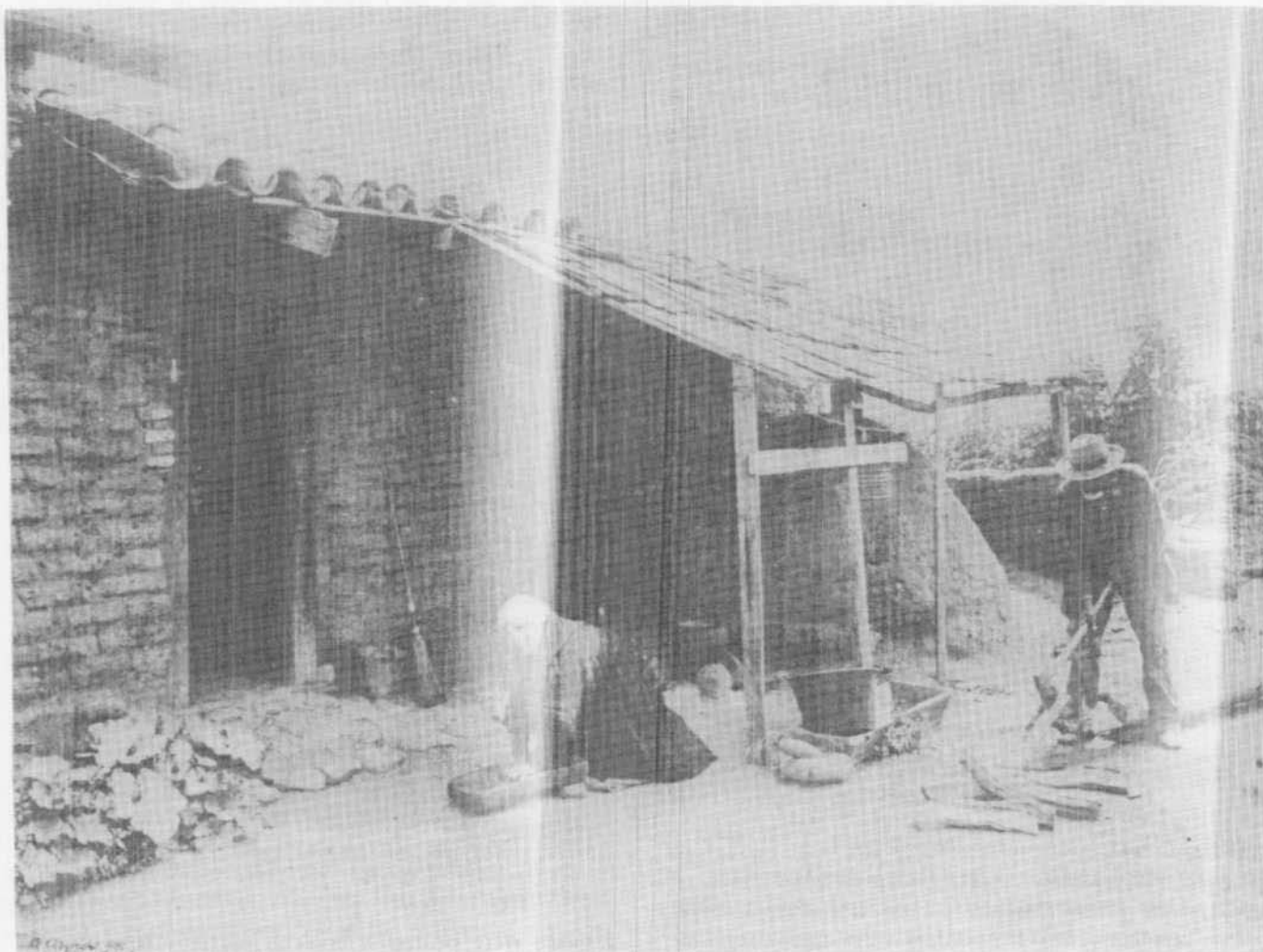
#### Structures

Houses were primarily conical, partially subterranean thatched structures of reeds, brush, or bark, whichever was available locally. Domestic chores were done in the shade of nearby brush-covered rectangular structures known by the Spanish term *ramadas*. Round, semisubterranean, earth-covered sweathouses (fig. 6) were important for purification and curing rituals. A ceremonial structure, the *wámkiš*, was a centrally located area within the village that was enclosed by circular fencing. Sometimes within this area there was a raised altar upon which was a skin-and-feather image. Ceremonies were held inside the *wámkiš* and ritual and paintings were made in front of it.

#### Adornment

Personal ornaments were made of bone, clay, stone, shell, bear claws and, later, glass. Beads or pendants were made of these as well as of mica sheets, bear claws, deer hooves, and abalone shell. Bracelets and anklets were made of human hair. Men wore ear and nose ornaments made of cane or bone, sometimes with beads attached. Cloaks and robes were made of deerskin, otterskin, or rabbitskin strips, wound on lengths of fiber, and put together by a twined weft. Yucca-fiber sandals and deerskin moccasins were worn. Body painting and tattooing for men and





NAA, Smithsonian.

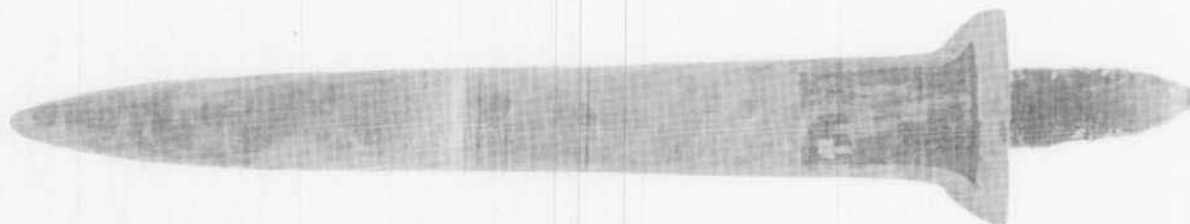
Fig. 4. Juanefio woman in front of adobe house grinding with mano and metate. An earth oven is behind her under the sunshade. Copyright and possibly photographed by Herve Friend, 1892.

women were ritually significant. Semiprecious stones were commonly used, such as quartz, topaz, garnet, opal, opalite, agate, and jasper. Women wore twined cedar-bark double aprons.

#### *Music and Games*

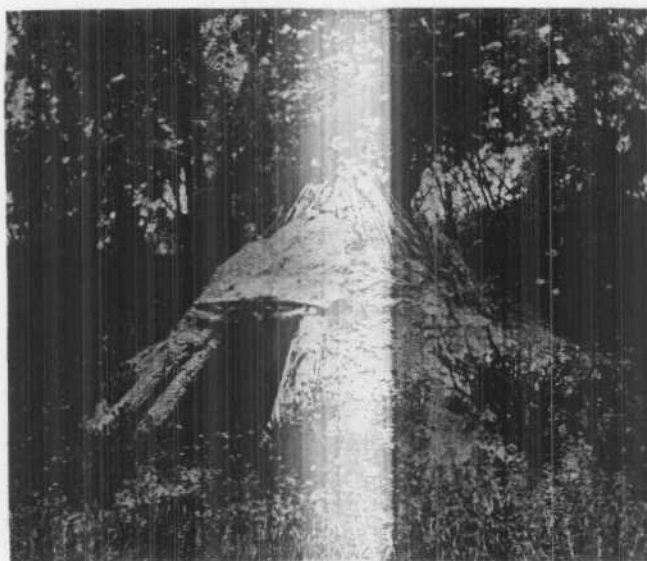
Musical instruments included bird-bone and cane whistles; cane flutes; split-stick clappers; rattles of turtle shell,

gourd, or deer hooves; and bull-roarers. Gaming equipment included bone and wood cylinders with stretched rawhide loop and counters used in the peon game, dice, painted or incised split sticks for women's gambling games, wooden ball and sticks for the ball-and-stick game, ring and pin, acorn tops, cat's cradle strings, hoops and pole, and wooden balls.



Riverside Municipal Mus., Calif.: A9-20.

554 Fig. 5. Luisefio ceremonial wand, wood handle with remnants of abalone inlay, obsidian point. Length 61.8 cm, collected before 1923.



Title Insurance and Trust Company, Los Angeles.

Fig. 6. Luiseno sweathouse on Soboba Reservation. Photograph possibly by C.C. Pierce, about 1885.

### *Social and Political Organization*

Women collected most of the plant resources, and men hunted the large game and most of the small game and fished; but there was no rigid sexual division of labor. Work activities often overlapped. Men aided in acquiring acorns and other plant foods by helping with heavy work associated with them, such as knocking acorns from the trees. They sometimes collected plant foods on hunting expeditions. Women, in turn, sometimes hunted and trapped small game and collected shellfish.

Aged women stayed at home to care for children, teaching them arts, crafts, and knowledge necessary for adulthood while active women were busy collecting and processing foods. Older men were most active in ritual, ceremonial affairs, making political decisions, and teaching selected young men. They were skilled net makers and arrow makers; they manufactured much of the capital equipment used in hunting as well as creating much ceremonial paraphernalia.

Children were involved in productive activities at the earliest possible age, boys and girls working with adults as they learned. Older, unmarried girls assumed some care for younger siblings. Men tended to have exclusive responsibility for ritual and sacred affairs, while women made food preparations for ritual affairs and performed supplemental dancing and singing.

Each Luiseno village was a clan triblet—a group of people patrilineally related who owned an area in common and who were politically and economically autonomous from neighboring groups. The entire social structure is obscure. It does not appear that they were organized into exogamous moieties such as were the Cahuilla, Cupeño, and Serrano (Strong 1929:291). They may have been loosely divided into easterners (mountain-

oriented peoples) and westerners (ocean-oriented peoples) (Strong 1929:288–289). R.C. White (1963:163–174) sees a possible moiety structure but the evidence is highly inferential. R.C. White (1963:173–178) and Strong (1929:287) agree that the “party organization” or grouping of lineages for reciprocal performance of ritual is a result of the recent drastic decline of population and the loss of ceremonial leaders without trained replacements.

The hereditary village chief (*nó't*) held an administrative position that combined and controlled religious, economic, and warfare powers (Boscana 1933:43). He had an assistant (*paxá'*) who acted to relay orders and information and who had important religious ceremonial duties also. There was an advisory council of ritual specialists and shamans, each with his own special area of knowledge about the environment or ritual magic. These positions were hereditary with each man training a successor from his own lineage who showed the proper innate abilities (R.C. White 1957:5–6). These specialists were also members of the cultic organization of Chingichngish and shared special access to ritual and supernatural power forms. There was a multiplicity of specialist roles under the *nó't* and *paxá'* such as the leaders of the rabbit hunt, deer and antelope drives, expeditions to the sea, as well as a specialist in each major food crop.

The more populous villages along the coast and in the larger valleys undoubtedly had a more complex structure than did the smaller settlements in the little valleys, which seem to have contained fewer lineages (Strong 1929).

Kinship terminology and marriage rules, in addition to the social structure, have been changed so extensively by the overlay of the Roman Catholic incest rules and external linguistic, political, and economic factors that the aboriginal or contact-period usage, rules, and structure are extremely obscure.

Luiseno kinship terminology had a Dakota structure (R.C. White 1963:168) and kin terms occurred only with possessive prefixes (Kroeber 1917:348). There was a tendency toward paired reciprocal terms that indicated equal relationship distance, with the diminutive ending on the younger of the pair (Kroeber 1917:351). For example, *-ka'* ‘grandfather’ and *-ka'may* ‘grandson’ (*-may* being the diminutive). This tendency affected all terms of grandparents, great-grandparents, father-in-law, brother-in-law, and cousin classes. The Luiseno had bifurcated merging for aunts and siblings with distinctions being made according to relative age of the parent's siblings (R.C. White 1963:168). Other features included merged terminologies for grandparent's siblings of the same sex; siblings were differentiated by age and sex, as were parallel aunts and uncles; nephews and nieces were recognized by age of connecting relative and sex of speaker; cross-nephews and -nieces were merged as well as parallel nephews and nieces.

At a child's birth the *nó't* of the mother's lineage performed the *šúłaxiś* ceremony, which confirmed the child to the householding group and the patrilineage (R.C. White 1963:165). Extensive dietary and activity restrictions were imposed upon both father and mother for about a month.

At puberty boys and girls underwent initiation rituals during which they were taught about the supernatural beings governing them and punishing any infractions of the rules of behavior and ritual (Sparkman 1908:221, 225). They were taught to respect elders, to listen to them, to give them food, not to eat secretly, to refrain from anger, to be cordial and polite to in-laws, to follow rituals exactly and respectfully or be subject to punishment and death by the messengers of Chingichngish (rattlesnake, spider, bear, and sickness). The boys' ceremony included the drinking of toloache (*datura*), visions, dancing, ordeals, and the teaching of songs and rituals. The girls' ceremony included advice and instruction in the necessary knowledge for married life, "roasting" in warm sands, and rock painting.

Marriage was arranged by the parents of children, sometimes at infancy. Girls were married shortly after their puberty ceremonies took place. Luiseños suggest an important concern was that spouses not be closely related, although R.C. White (1963:169-170) suggests that cross-cousin marriages may have been the norm prior to Spanish Catholic influences. Important lineages were allied through marriage. Elaborate marriage ceremonies and a bride price accompanied marriage. Residence was generally patrilocal. Polygyny, often sororal, was practiced, especially by chiefs and shamans. Divorce was not easy, but possible; widows could remarry, preferably a classificatory "brother" of her deceased husband, as a husband might marry a classificatory "sister" of his deceased wife.

Marriage was utilized as an instrument of ecology and economics. Reciprocally useful alliances were arranged between groups in differing ecological niches, and became springboards of territorial expansion, especially following warfare and truces (R.C. White 1963:130). In the twentieth century, marriages of Luiseño women into neighboring reservations have extended Luiseño influence among their neighbors, for instance, among the Cupeño and Ipai and Tipai, and on Soboba reservation.

Death was a major concern to the Luiseño. They observed at least a dozen successive mourning ceremonies. After a *tuvíś* or ritual washing of clothes, a smoking purification of relatives was held and various related clans were invited to an image-burning ceremony, which ended formal mourning. Feasting took place, and food and gifts were distributed to guests. A special ceremony, the eagle killing, was held to commemorate the death of a chief.

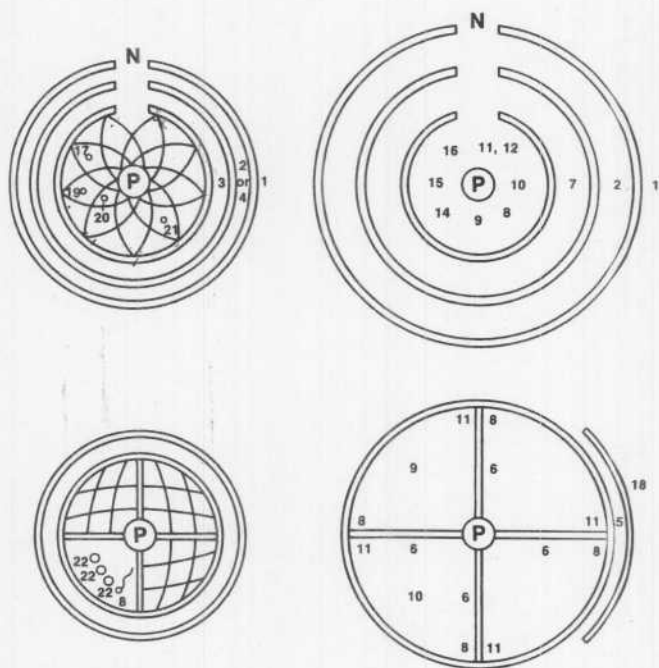
Ritual provided dramatic enactments and reciting of sacred oral literature in which ritual was initially ordained. The rituals functioned to control environment, emulate the experience of sacred persons, and guarantee their positive responses. Ritual also aided in the control of knowledge-power, which resided in varying degrees in the Luiseño world. Rituals were strictly governed by rules and procedures administered by religious chiefs and shamans, who comprised a hierarchical power pyramid dominated by the village chief, an assistant, a council, and a secret society, which included most adult males in the village. They articulated ritual and controlled hunting, harvest, warfare, in fact, all major activities of village life. The rituals are connected with the Chingichngish cult.

Most participants in rituals were paid. A guest ritual leader and his assistants—from another village or moiety—officiated. Great quantities of food and treasure goods were distributed at these affairs. R.C. White (1963) has recorded over 16 kinds of ceremonies. In addition to rites for the dead there were rites of passage—naming, birth, puberty, death, installation of new office holder. Other rituals controlled the environment, for instance rainmaking or increase of food crops or animals. Still others involved social and political controls both within and between villages, like peace making between individuals or groups.

Principal rituals conducted by the *nó't* and his organization were: (1) *má'ni pá'ʔiś*—*datura* drinking, (2) *ʔántuś*—ant ordeal of puberty, (3) *nó'tuś*—pole climbing, (4) *méyiś*—hunting purification by smoke, (5) *mó'raxiś*—eagle-feather dance, (6) *pé'niś*—eagle killing, (7) *aputs* (Boscana in Harrington 1934:41)—fertility dance, (8) *háyiś*—moon racing (fertility?), (9) *čúyiś*—mortuary, clothes burning, (10) *tó'činiś*—mortuary, image burning, (11) *tuvíś*—clothes-washing at birth and death, (12) *wigéniś*—female puberty, (13) *péwluś*—marriage, (14) *né'tuś*—conception, (15) *čéłaxiś*—peace among individuals (*čéla*—'observe ritual silence'), (16) *náwtiś*—peace between parties (lineage groups) or tribes.

Sand painting was a significant ritual-cosmological component associated with most rituals; although utilized by several southern California groups, the paintings are best documented for the Luiseño. The paintings (*turó'hayiś*) were made at boys' initiation rites, girls' initiation rites, and death rites for initiates of the *datura* cult. Each painting represented various aspects of the universe, for example, the Milky Way, all-encompassing night and sky, sacred beings, and spiritual phases of the human personality, especially the punisher-beings representing Chingichngish (fig. 7). These art forms were destroyed when the ritual was finished. They were only occasionally made in the 1970s.





after Kroeber 1925:662.

Fig. 7. Sand paintings. Elements include: 1, Milky Way; 2, night or sky; 3, root (of existence); 4, our spirit or soul; 5, world; 6, hands (arms) of the world; 7, blood; 8-16, avengers and punishers sent by Chingichngish; 17, sea; 18, mountains; 19, plant hill; 20, boil or abscess; 21, four avenging animals; 22, ceremonial baskets (may be actual objects); N, north; P, pit symbolical of death and burial of ashes, the abode of the dead, or navel of the universe.

After contact, Luiseño ceremonial leaders began to die out. Lineages that no longer had ceremonial leaders and *paxá*? or requisite ritual paraphernalia associated, for ritual purposes, with lineages that did. The groups resulting from this process are now called "parties" to distinguish them from traditional ritual units (Gifford 1918).

### Cosmology

Luiseño cosmology centered about a dying-god motif and around *wiyó't*, a creator-culture hero and teacher who was the son of earth-mother (*tamá'yawut*). It was he who established the order of the world and was one of the first "people" or creations. The death of *wiyó't* was brought about by another of the first "people." This death changed the nature of the universe and led to the creation of the existing world of plants, animals, and men. The original creations took on the various life forms now existing. Some remained in contact with their descendants, while others went to different levels of the universe. After the death of *wiyó't* the "people" gathered and worked out solutions for living, including the adoption of the present spatial organization of "species" for living space, and a chain-of-being concept that placed each species into a productive, hierarchically arranged and mutually supportive relationship with all others. Thus the problems of food and space were solved by the accept-

ance of predatorship and death for all beings and things: rocks and trees lived on top of the ground, gophers lived under, men ate deer, and deer ate grasses (R.C. White 1957:9).

The disposal of the body of *wiyó't* affirmed the concept of death and established funeral ritualism. It also ended the formation of prescribed knowledge that was given to each species. The remaining knowledge that *wiyó't* threw away upon his death was known as residual knowledge. Formulated knowledge, the prescribed knowledge given before his death, became the exclusive possession of the ritual officials. Residual knowledge could be sought and acquired by anyone who had the innate ability consistent with that form of knowledge-power (R.C. White 1957:6, 8).

The acquisition and use of knowledge-power was required to be kept secret and there were constant admonitions not to divulge knowledge-power because misfortune and death would follow. The negative consequences of the misuse of knowledge-power or its potential use by an enemy made any careless sharing of knowledge unthinkable. People with knowledge-power had the right to receive more in the distribution of goods (thus ensuring a higher degree of survival in cases of shortages). Knowledge, because of its dangerous nature, was transmitted only reluctantly after the recipient had demonstrated his ability to handle that form. It had to be used specifically and unvaryingly according to set procedures and on the appropriate occasions. Failure to follow set rules at appropriate times resulted in loss of control over the particular kind of power being used and brought grave consequences to the entire community (R.C. White 1957:4).

The rank-order system in society and nature depended upon the natural innate knowledge-power adhering to a species or individual. For people, the innate ability varied with individuals, accruing most often to the families of powerful individuals. An attitude of complete fearlessness was seen to be the satisfactory state of mind for acquiring knowledge-power.

### History

Although several earlier European explorers observed the Luiseño, first contact with Europeans was in 1796 when the Gaspar de Portolá expedition arrived and San Diego Mission was founded to the south. In 1776 a mission was established at San Juan Capistrano, and 22 years later San Luis Rey Mission was founded.

R.C. White (1963:104) estimates that there were 50 Luiseño villages, with a mean population of about 200 each, thus suggesting a population of 10,000 people in contrast to Kroeber's (1925:646, 649) estimate of 4,000-5,000 people. At no time have published population figures been reliable, since many individuals and some villages were never part of the mission or reserva-

Table 1. Population

| <i>Date</i> | <i>Total</i>              | <i>Men</i> | <i>Women and<br/>Children</i> | <i>Reservation<br/>Residents</i> | <i>Source</i>           |
|-------------|---------------------------|------------|-------------------------------|----------------------------------|-------------------------|
| Precontact  | 10,000                    |            |                               |                                  | R.C. White 1963         |
| 1828        | 3,683                     | 1,598      | 2,085                         |                                  | Mission Records         |
| 1856        | 2,500-2,800 (19 villages) |            |                               |                                  | ARCIA                   |
| 1860        | 1,011                     |            |                               |                                  | U.S. Census Office 1880 |
| 1865        | 1,047                     | 536        | 511                           |                                  | ARCIA                   |
| 1873        | 975 (10 villages)         |            |                               |                                  | ARCIA                   |
| 1881        | 1,120                     |            |                               |                                  | ARCIA                   |
| 1885        | 1,142                     |            |                               |                                  | ARCIA                   |
| 1889        | 901                       |            |                               |                                  | ARCIA                   |
| 1894        | 784                       |            |                               | 417                              | ARCIA                   |
| 1895        | 948                       |            |                               | 272                              | ARCIA                   |
| 1914        | 983                       |            |                               | 983                              | ARCIA                   |
| 1925        | 841                       |            |                               | 841                              | ARCIA                   |
| 1940        | 721                       |            |                               | 402                              | ARCIA                   |
| 1960        | 1,757                     |            |                               | 564                              | BIA, Sacramento         |

tion system; therefore, the figures in table 1 may consistently be considered as minimums. Recent counts are further skewed by the mixture of tribal groups on some reservations, for example, Pala.

Upon contact, European ideas and diseases immediately began to spread throughout the Luiseño population. Living conditions at missions and on the ranchos accelerated the population decline.

Some coastal village people were moved into mission environs. Over a period of years, Indians were brought from progressively more distant villages into San Juan Capistrano Mission where they were taught the Roman Catholic faith, Spanish language, farming skills, animal husbandry, adobe brickmaking, carpentry, and other European crafts.

The policy at San Luis Rey Mission was to maintain Luiseño settlement patterns. The priest, Father Peyri, visited villages to hold masses, perform marriages, and supervise agricultural activities; but traditional economic methods remained as the basic subsistence mode, and leadership continued for the most part as it always had.

In 1834 missions were secularized and the attendant political imbalance resulted in Indian revolts and uprisings against the Mexican rancheros, who were using many of the Indians as serfs. Many left the missions and ranchos and sought refuge among inland groups, while a few individuals acquired land grants—Kuka, Temecula (fig. 8), La Jolla—and entered into the mainstream of Mexican culture. Several Indian pueblos were established for some of the San Luis Rey Indian rancherías, among them Santa Margarita and Los Flores, by the Mexican

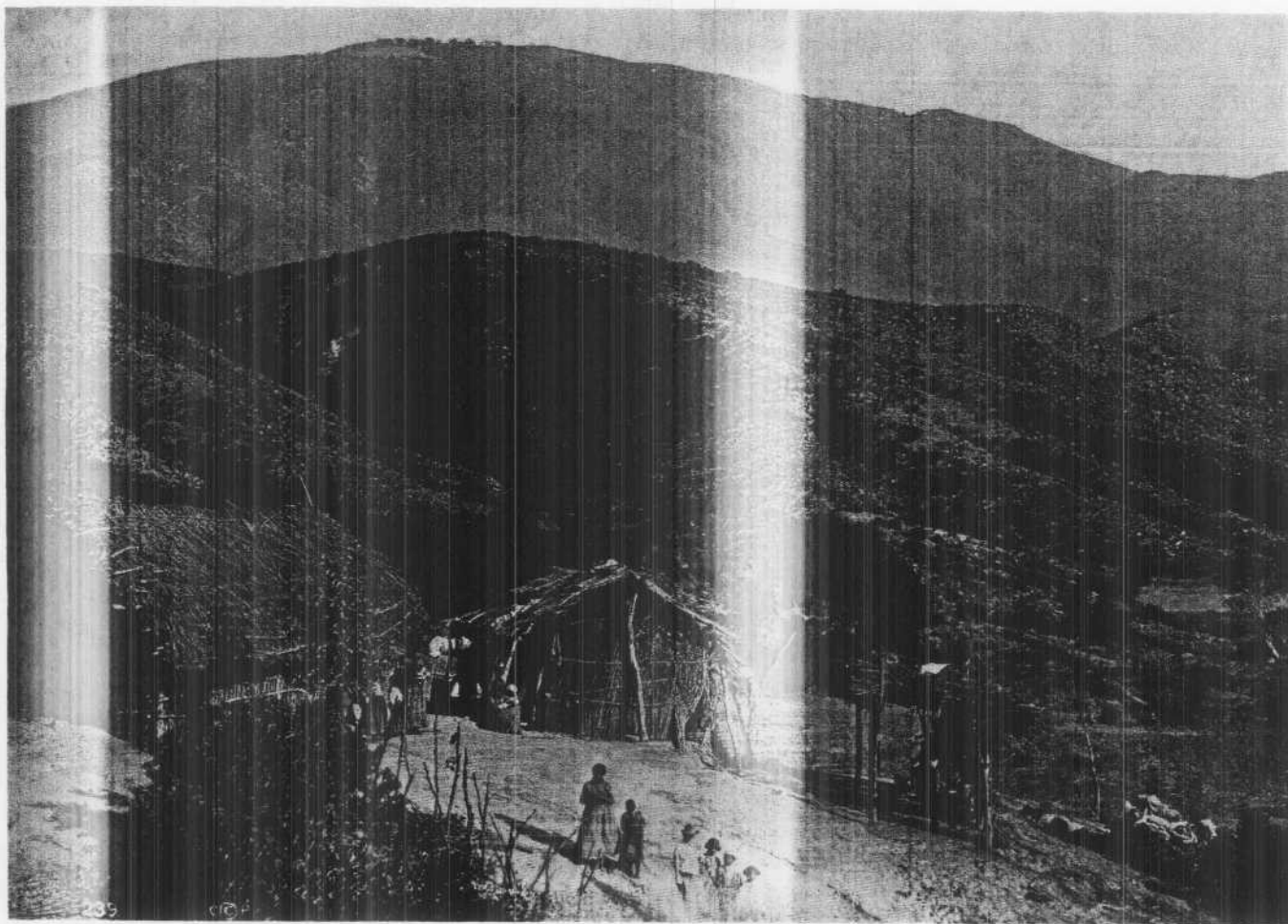
government. These pueblos were intended to be governmental units within the Mexican political system. Most of them disappeared under Mexican rancho pressures; Los Flores, for example, was sold to Mexicans.

Most Luiseño villages, however, continued to maintain their traditional orientation with the addition of wheat and corn agriculture, irrigation, orchards, and animal husbandry.

For the purposes of political and economic controls, the leadership roles that had been established in the mission period, such as *generales*, *capitanes*, and *alcaldes*, continued to exist and operate with political and economic, rather than religious, mechanisms. These new leaders operated in addition to religious leaders and acted as liaisons between the people and Europeans (fig. 9).

With the entrance of Anglo-Americans into California, Luiseños were displaced from more of their lands (for instance, Temecula, 1859-1877). Conflicts between Indians and encroaching Whites finally led to the investigation and establishment of executive-order reservations for some villages (for example, Pala, Potrero, La Jolla, Yapiche) in 1875. Other Luiseños were evicted from their homes and dispersed at random, some going to reservations, others to nearby towns or ranches.

Civil rights and federal protection were minimal until 1891 when the Act for the Relief of the Mission Indians established trust-patent reservations and initiated a bureaucratic management of them. Agents, teachers, medical personnel, Bureau of Indian Affairs day schools, and Indian captains, judges, policemen, and Indian courts were established. The stated function of this system was



Title Insurance and Trust Company, Los Angeles.

Fig. 8. View of Pechanga showing houses of the Temecula. Palomar Mountain is in the background. Photograph by C.C. Pierce, about 1895.

to develop a self-supporting population, which would eventually be assimilated into the mainstream of American life. Special educational institutions, day schools, and boarding schools such as Perris School, Sherman Institute, and the Carlisle School, and private boarding schools such as the Roman Catholic Saint Boniface were established to adapt Indian children to the American culture. Under the provisions of the Dawes Act a land-allotment program was established to provide land for individuals. During this time there was a concerted program against traditional authority by the federal government, which insisted that all tribally elected persons (captains, judges) must be approved by the local Indian agent. Furthermore, Indian policemen and other Indians were often employed in positions of power without regard to local feelings.

Indians continued to support themselves by farming, ranching, and various forms of wage labor, supplemented by hunting and gathering wherever still available.

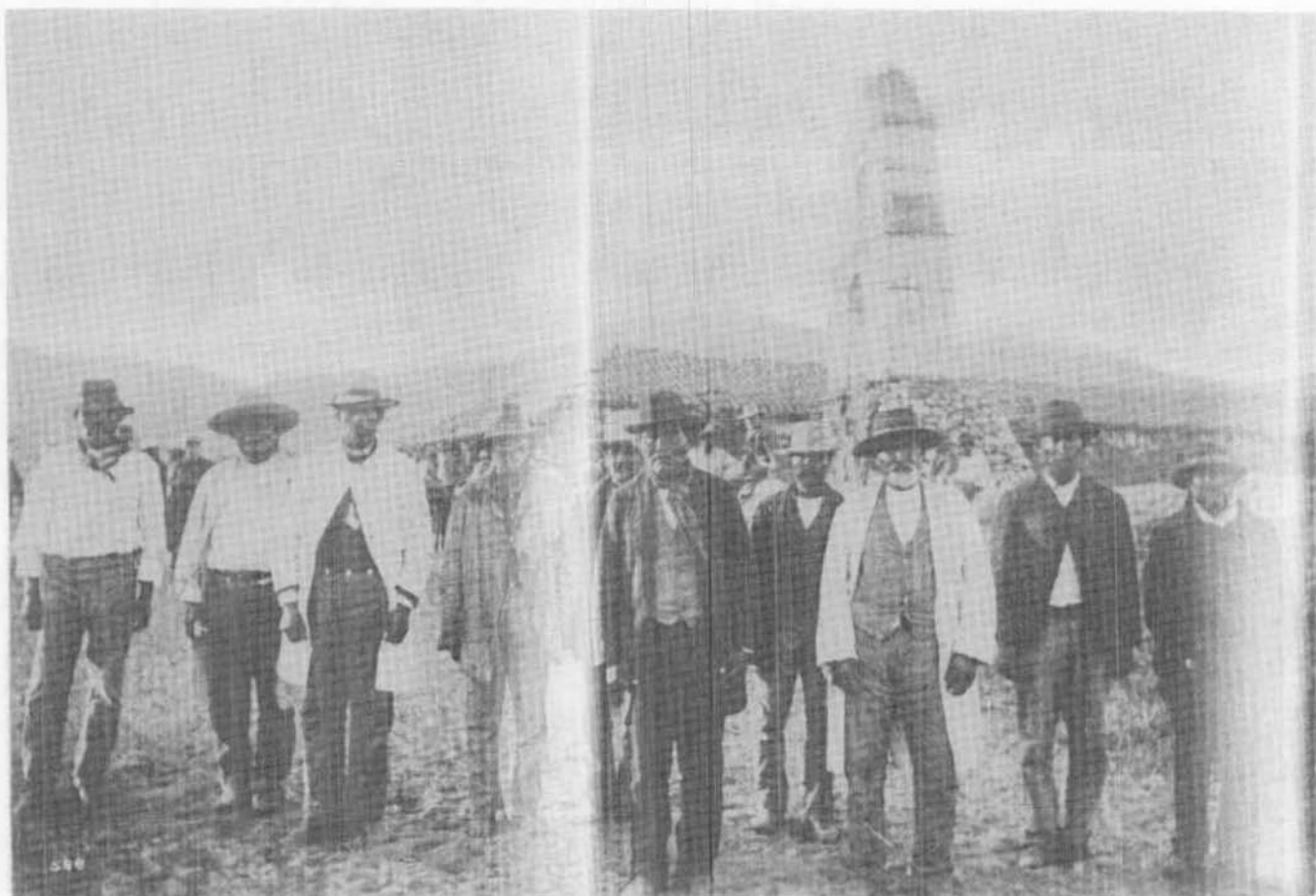
Some Luiseños vigorously protested the Bureau of Indian Affairs management of the reservation, and by 1919 the Mission Indian Federation and other instrumen-

tal voluntary associations were formed to solve new problems. In 1934 the Indian Reorganization Act was rejected by Luiseños because it did not allow sufficient home rule. Nevertheless, bureaucratic control increased as federal activities on Indian reservations were expanded. The complication of the Depression affected economic life and increased bureaucracy, but considerable support to Indians came from federal agencies such as the Civilian Conservation Corps Indian Service and from economic-aid programs such as the reimbursable cattle program.

Commencing with World War I, many Indians entered the service or migrated to urban areas for defense industry jobs. Reservation activities diminished, but personal incomes increased as new jobs were available and markets improved for agricultural products. At the end of the war a resurgence of farming and cattle raising by the returning servicemen, along with increased job skills and opportunities, led to higher levels of income for most Luiseños.

Pressures for termination of federal involvement in Mission Indian affairs, which had been building since the





Title Insurance and Trust Company, Los Angeles.

Fig. 9. Capt. Pedro Pablo and his headmen from Pauma at Pala for a tribal meeting. Photograph possibly by C.C. Pierce, about 1885.

1930s, reached a peak in the 1950s. Luiseños assumed active leadership, both for and against this program. It was vigorously discussed and partially averted. In 1953, with the passage of Public Law 280 (67 Stat. 588-590) federal services were reduced to the maintenance of the trust status of the land. A period of chaotic legal problems developed because Public Law 280 did not spell out the exact areas of responsibility of states and counties in regard to law enforcement and use of Indian trust lands. Neither the public agencies nor the Indians were adequately apprised of the new relationships of Indians to local, state, and other federal agencies and the consequent changes in responsibilities.

In spite of the confusion engendered by Public Law 280, or because of it, a resurgence of local self-government and self-determination occurred. Reservation groups began to write articles of association and establish formal membership requirements in terms of degree of relationship to original members. With the beginning of the federally funded programs in the late 1960s, such as low-cost housing, manpower training, and Office of Economic Opportunity grants, the Luiseño began establishing new forms of local organizations in order to participate and take advantage of programs. Since pro-

gram funding required large populations, new organizations were developed to include several reservations, Luiseños as well as others. Luiseño participation and leadership again became prominent in state organizations such as the Intertribal Council of California, county organizations such as the Tribal Chairmen's Association of San Diego County, and regional groups such as the All-Mission Indian Housing Authority. The Luiseño appear to be more generally involved with these types of organizations than most other Indian groups in southern California. Consequently an exceedingly complex proliferation of organizations, committees, and boards working with new governmental and private agencies has developed. Some reservations belong to none, some to one or several reservation-based groups, and some to all. Final authority on any reservation is the entire adult membership. These other groups have no authority inherent in themselves in regard to the reservations. Many of the same individuals sit on several boards, but this does not indicate coordination or closeness between organizations.

Some county or state organizations have had "an Indian" appointed in order to have some Indian input into the policy level: San Diego County Welfare Council,

County Human Relations Committee, County Office of Economic Opportunity, Public Employment Program, and some local school boards.

Then there are federally funded programs that have a board of directors elected from or appointed by various member reservations on the local level or from sections of the state on the state level. The Intertribal Council of California is an example of such an Indian organization. California Indians Legal Services is another organization funded by the Office of Economic Opportunity. It is given loose policy direction by a board composed of Indians appointed from various sections of the state and several lawyers appointed by the bar association. It hires lawyers and their staffs and consultants to provide legal assistance to Indians in California. The All-Mission Indian Housing Authority has all the powers of any "housing authority." It requires a legally certified resolution to join passed by the majority of members of a reservation. To have housing on tribal land under the All-Mission Indian Housing Authority, the tribe must develop a housing area plan and lease that portion of the reservation to the Housing Authority for 50 years.

United States Public Health Service, Indian Division, is responsible for safe domestic water supplies and sanitary disposal of sewage. Individual health is the individual's responsibility. California Rural Indian Health serves only the five reservations in the northern part of the county and receives federal funds through the State Public Health for transporting people to doctors and some health education classes. The South County Business Managers supervise an unfunded outpatient clinic for which they have obtained volunteer services. Mission Indian Development Corporation was set up by the Bureau of Indian Affairs to serve all southern California reservations but in fact serves only the Luiseño.

### *Cultural Persistence*

Most Luiseño bands were in the 1970s enrolled on the reservations at La Jolla, Rincon, Pauma, Pechanga, Pala, and Soboba. In 1970 approximately one-third of the enrolled Luiseño resided on the reservations. Most others lived within a 20-mile radius in towns or on other reservations. A few lived in Los Angeles and other parts of California. Less than 1 percent lived in more distant areas. Some nonreservation Luiseño live in San Juan Capistrano and Oceanside. They are only vaguely organized as groups. The reservation groups are structured with elected councils, formal membership rolls, and articles of association.

Occupations are primarily in semiskilled or skilled categories, such as electricians, carpenters, cattle raisers, farmers, firemen, defense workers, domestics. Some are in professional positions such as teachers, professors, engineers, certified public accountants. Programs for the aged

and indigent, Medicare services, social security, and unemployment compensation are available on the same basis as for any other California citizen. Planning for improved housing and economic development of resources is actively taking place on all Luiseño reservations.

During the 1930s the Bureau of Indian Affairs day schools for southern California were gradually closed and before 1950 both grade-school and high-school students were in public schools. Educational achievement is highly valued and sought out. In the 1960s, numerous young people entered colleges throughout the state, and many adults were returning to college.

Most Luiseño in the 1970s were practicing Roman Catholics but retained an attenuated form of their pre-contact religion (fig. 10). Approximately 10 percent belong to Evangelical, Church of Christ, or other Protestant denominations. Pala Mission is active with the Verona Fathers servicing a Catholic chapel on each Luiseño reservation. A Roman Catholic elementary school has many of the Luiseño children enrolled at Pala. Major Catholic festivals are celebrated; and baptism, confirmation, marriages, funerals, and memorial services are important to most Luiseños. Protestant churches are active on La Jolla and Rincon reservations.

The original Luiseño culture persists in many forms, although it is sometimes not readily apparent to the outside observer. Philosophical assumptions (R.C. White 1957) are maintained as are certain rituals and shamanic practices. Surviving ceremonies include initiation for cult candidates, installation of religious chiefs, funerals, and clothes burning (R.C. White 1953).

While the Luiseño language is spoken by only a few elderly people, there is a revival of interest among the young and language classes have been organized. A language text has been written by a Luiseño, Villiana



Title Insurance and Trust Company, Los Angeles.

Fig. 10. Indian graveyard at Pala with personal possessions or gifts on top of the graves. Photograph probably by C.C. Pierce, about 1900.



Hyde (1971). Traditional amusements such as peon games and secularized songs and dances are continuing; Luiseño foods such as acorns, yucca, and wild game are still eagerly sought. Some traditional medicines and curing procedures are practiced, and traditional political concepts still function, although in new forms. Attitudes toward property, sexual roles, knowledge, power, isolationism, and leadership continue.

In the late 1800s fiestas celebrating saints' days for each reservation became a major activity for each Luiseño reservation, involving interreservation visitors for one, two, or three weekends of each year. These fiestas were active until about the 1920s when they were discouraged, sometimes forbidden, by the BIA. They had become a major mechanism for interreservation economic exchange as well as ceremonial, social, and political activities. They were revived after World War II on some reservations for social and fund-raising purposes.

A traditional feature indicating vigorous persistence is the peon game, a complex guessing game involving two competing groups of four players each and a referee supported by singers and magical formulas to acquire luck. To win the game, 16 counters must be acquired by guessing the ways in which black and white peons are held hidden in the hands by the opposing team. Large amounts of treasure goods and food stores were formerly wagered. Now large amounts of money are wagered on these games, which are played during fiestas. Teams represent families, and sometimes language groups or reservations. Both men and women play. The winning team and their backers are rewarded by large wagers. Individual players are renowned in the local Indian community if they possess peon skills.

### Synonymy

The Luiseños (both Juaneño and Luiseño proper) have been known by a variety of terms. The earliest use of the term Luiseño appears in Arroyo de la Cuesta (1821) and was used as the name for the language spoken by a group of Chumash living at San Luis Obispo Mission about 1821-1837. This term was later applied to the Indians living at San Luis Rey Mission (Coulter 1835:67). Pablo Tac, a young Luiseño man, gave several names for the inhabitants of Luiseño territory: Quechnajuichom (translated as 'the inhabitants of Quechla', that is, San Luis Rey), Sanjuanefios, and San Luiseños (Tac 1952:87). Coutts (ARCIA 1857:240) termed them San Luisenians, and variations of this term continue: San Luis Indians (Winder 1857:124), San Luis Rey (ARCIA 1872:682), San Luiseños (Bancroft 1874-1876, 1:460; Tac 1952:87; B.D. Wilson 1952), San Luisieños (Bancroft 1874-1876, 1:460). Kroeber (1907b:145) gives the terms Ghecham and Khecham (alternative spelling) for the Luiseños, the term being derived from *qéc* 'Mission San Luis Rey'; for

this Harrington (1933b:97) gives Juaneño *qé' ?eč*, Luiseño *qé' ?eš*. These terms appear to be the same as those given by Gatschet (1879:413) and Shea (1855:108): *kechi* and *kechis* respectively. In 1907 Kroeber termed the Indians living near Mission San Juan Capistrano Juaneño. Boscana's name for them, Acagchemem, appears to be a spelling of Juaneño *?axácmeyam* or Luiseño *?axášmayam* 'San Juan Capistrano people', derived from the name for the mission town, *?axáčme*, Luiseño *?axášmay* (Harrington 1933b:102). In the 1970s Luiseños tend to use the term San Luiseño when referring to themselves or to identify and call themselves by reservation or clan names.

### Sources

Historical sources on Luiseno begin with observations by Cabrillo in 1542 and Vizcaino in 1602. Later overland Spanish explorers (Portolá, Fages, and Mariner) described villages and activities. Mission records from San Luis Rey and San Juan Capistrano contain accounts of baptism, birth, marriage, and death. Ethnographic descriptions exist in the answers to *interrogatorios* as well as in various writings, of which Boscana's accounts (1933; see also Harrington 1934) are the most valuable. A neophyte's description (Tac 1952) adds further valuable ethnographic and historic data. Various archival resources were drawn upon by Engelhardt in his histories of various missions (1908-1915, 2, 1921, 1922, 1923, 1927). B.D. Wilson (1952) and the National Archives Luiseño files provide data about these people after the American conquest of California. In later years various federal commissions reported on the conditions of Luiseño peoples (Jackson and Kinney 1884; Smiley Commission 1891).

The earliest ethnographic account is that of Henshaw in 1884 (Henshaw 1972); the major ethnographic works begin with Sparkman (1905, 1908, 1908a), Du Bois (1904a, 1908a), and Kroeber (1906, 1908d, 1909b, 1917, 1925). They set the basic ethnographic frame to which other scholars have contributed. Gifford (1918, 1922) and Strong (1929) analyzed kinship, social organization, and ritual. Harrington, who collected extensively in the 1930s and 1940s, published (1933a, 1933b, 1934a) important new ethnographical and linguistic data. R.C. White (1963) established a new interpretation of Luiseño settlement pattern, social organization, and philosophy.

Major archival resources are: United States National Archives (War Records, Department of Pacific; Bureau of Indian Affairs files); John P. Harrington Collection, National Anthropological Archives, Smithsonian Institution; Sparkman papers, Anthropological Archives, Bancroft Library, University of California at Berkeley; and the C.H. Merriam Collection, Archaeological Research Facility, University of California at Berkeley. Major collections of Luiseño artifacts are held at the Museum of

the American Indian, Heye Foundation, New York; American Museum of Natural History, New York; the Smithsonian Institution; San Diego Museum of Man; Lowie Museum of Anthropology, Berkeley; and the Southwest Museum, Los Angeles. Other archival and

considerable photographic materials are available at the Huntington Library, San Marino, California; additional material can be found at the San Diego Historical Society Junipero Serra Museum, the San Diego Public Library, and in San Diego County records.

Thu 3/15/2018 10:23 AM

From: Andy Salas [andysalas07@yahoo.com](mailto:andysalas07@yahoo.com)

**Re: Big canyon cultural survey**

To: Michael Bever <MBever@esassoc.com>

Cc: David Pohl [DPohl@esassoc.com](mailto:DPohl@esassoc.com) Stein, Robert [RStein@newportbeachca.gov](mailto:RStein@newportbeachca.gov) Matt Teutimez.Kizh Gabrieleno <Matt.Teutimez@gmail.com>

Here are some well known Villages

Large Prominent Gabrieleño settlements within big canyon / Newport /Costa mesa /Moyonga ,Lukupanga , Kenyangna, Lopusuknga

**Lukupangna**

A village located near the mouth of the Santa Ana River/Huntington Beach.

**Lopusuknga**

The village was located near Costa Mesa and the Santa Ana River.

**Moyonga**

A village site located near Corona Del Mar.

**Name Variations or Other Villages:**

-Moyo

**Kengaa**

A coastal village near Newport Beach, CA.

**Kenyaanga**

A coastal village located near Newport Beach, CA.

**Name Variations or Other Villages:**

-Kenyaangna

Sent from my iPhone