

APPENDIX B

AIR QUALITY DATA

Back Bay Landing

Appendix B (Air Quality)

Air Quality Assessment Files

Provided by PCR Services Corporation

August 2013

- Construction Emissions
- Operational Emissions

Overall Construction Dates

| | |
|-------------------|--|
| Start Date | 5/15/2015 |
| End Date | 2/15/2017 |
| Duration (months) | 21.0 (Average of 18-24 month construction) |

| Phase | Start | Finish | Months |
|---|------------|------------|--------|
| Demolition | 5/15/2015 | 6/15/2015 | 1.0 |
| Excavation & De-Watering | 6/16/2015 | 8/15/2015 | 2.0 |
| Infrastructure/Foundations | 8/16/2015 | 2/15/2016 | 6.0 |
| Vertical construction | 8/16/2015 | 11/15/2016 | 15.0 |
| Paving | 1/16/2017 | 2/15/2017 | 1.0 |
| Architectural Coating | 5/16/2016 | 11/15/2016 | 6.0 |
| Final Landscaping | 11/16/2016 | 2/15/2017 | 3.0 |
| Bayside Drive Roadway Improvement & Trail | 7/16/2016 | 10/15/2016 | 3.0 |
| Reconfiguration of Bayside Village Mobile Home Park | 5/16/2016 | 11/15/2016 | 6.0 |

| Planning Area | Acres | Sq Feet |
|---------------|--------|---------|
| 1 | 5.132 | 223,550 |
| 2 | 0.642 | |
| 3 | 0.659 | |
| 4 | 0.541 | 23,566 |
| 5 (submerged) | 24.456 | |
| Project Site | 6.974 | |

Demolition

| | | | |
|-------------------|-----------|------------------------|-------|
| Start Date | 5/15/2015 | Demolition total (ac) | 5.67 |
| End Date | 6/15/2015 | Demolition debris (CY) | 10406 |
| Duration (months) | 1.0 | Demolition amt (tons) | 7,284 |
| Duration (days) | 22 | | |

Excavation & De-Watering

| | |
|-----------------------|------------------------|
| Start Date | 6/16/2015 |
| End Date | 8/15/2015 |
| Duration (months) | 2.0 |
| Duration (days) | 43 |
| Total Acres Disturbed | 5.80 |
| Cut (CY) | 6,000 |
| Fill (CY) | 20,000 |
| Import (CY) | 16,000 (high estimate) |

| OffRoadEquipmentType | OffRoadEquipmentUnitAmount | UsageHours | Days/Week |
|--|----------------------------|------------|-----------|
| Demolition: 5/15/2015-6/16/2015 | | | |
| Rubber Tired Dozers | 1 | 8 | 5 |
| Tractors/Loaders/Backhoes | 2 | 8 | 5 |
| Concrete/Industrial Saws | 2 | 8 | 5 |
| Other Construction Equipment | 1 | 8 | 5 |
| Aerial Lift | 1 | 8 | 5 |
| Excavation & De-Watering: 6/16/2015-8/15/2015 | | | |
| Excavators | 2 | 8 | 5 |
| Graders | 2 | 8 | 5 |
| Rubber Tired Loader | 1 | 8 | 5 |
| Tractors/Loaders/Backhoes | 2 | 8 | 5 |
| Other Construction Equipment | 1 | 8 | 5 |
| Bore/drill rig | 1 | 8 | 5 |
| Air Compressors | 1 | 8 | 5 |
| Pump | 1 | 8 | 5 |
| Infrastructure/Foundations: 8/16/2015-2/15/2016 | | | |
| Air Compressor | 2 | 8 | 5 |
| Cement and Mortar Mixers | 2 | 8 | 5 |
| Pump | 1 | 8 | 5 |
| Tractor/loader/backhoe | 2 | 8 | 5 |
| Other Construction Equipment | 1 | 8 | 5 |
| Vertical Construction: 8/16/2015-11/15/2016 | | | |
| Crane | 1 | 4 | 5 |
| Air Compressor | 2 | 8 | 5 |
| Aerial Lift | 2 | 8 | 5 |
| Forklifts | 2 | 8 | 5 |
| Tractor/loader/backhoe | 2 | 8 | 5 |
| Concrete/Industrial Saw | 1 | 8 | 5 |
| Other Construction Equipment | 2 | 8 | 5 |
| Paving: 1/16/2017-2/15/2017 | | | |
| Pavers | 1 | 8 | 5 |
| Paving Equipment | 2 | 8 | 5 |
| Rollers | 1 | 8 | 5 |
| Cement and Mortar Mixers | 1 | 8 | 5 |
| Architectural Coating: 5/16/2016-11/15/2016 | | | |
| Air Compressors | 1 | 8 | 5 |
| Final Landscaping: 11/16/2016-2/15/2017 | | | |
| Rubber Tired Dozers | 1 | 8 | 5 |
| Forklifts | 1 | 8 | 5 |
| Tractors/Loaders/Backhoes | 1 | 8 | 5 |
| Crawler Tractors | 1 | 8 | 5 |
| Bayside Drive Roadway Improvements & Trail: 7/16/2016-10/15/2016 | | | |
| Rubber Tired Dozers | 1 | 8 | 5 |
| Tractors/Loaders/Backhoes | 1 | 8 | 5 |
| Pavers | 1 | 8 | 5 |
| Paving Equipment | 1 | 8 | 5 |
| Rollers | 1 | 8 | 5 |
| Cement and Mortar Mixers | 1 | 8 | 5 |
| Reconfiguration of Bayside Village Mobile Home Park: 5/16/2016-11/15/2016 | | | |
| Air Compressors | 1 | 8 | 5 |
| Pavers | 1 | 8 | 5 |
| Paving Equipment | 1 | 8 | 5 |
| Rollers | 1 | 8 | 5 |

Newport Back Bay Landing - Construction South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-------|---------------|-------------|--------------------|------------|
| General Office Building | 17.08 | 1000sqft | 0.52 | 17,075.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 36.50 | 1000sqft | 1.12 | 36,500.00 | 0 |
| High Turnover (Sit Down Restaurant) | 3.50 | 1000sqft | 0.11 | 3,500.00 | 0 |
| Quality Restaurant | 4.10 | 1000sqft | 0.12 | 4,100.00 | 0 |
| Apartments Mid Rise | 49.00 | Dwelling Unit | 4.10 | 85,644.00 | 108 |
| Strip Mall | 32.86 | 1000sqft | 1.00 | 32,859.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------|-------|------------------|-----|---------------------------|------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 8 | | | Operational Year | 2017 |

Utility Company Southern California Edison

| | | | | | |
|--------------------------|--------|--------------------------|-------|--------------------------|-------|
| CO2 Intensity (lb/MW/hr) | 630.89 | CH4 Intensity (lb/MW/hr) | 0.029 | N2O Intensity (lb/MW/hr) | 0.006 |
|--------------------------|--------|--------------------------|-------|--------------------------|-------|

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction Emissions

Land Use - Unrefrigerated Warehouse refers to the 32,500 sqft Enclosed Dry-Stack Boat Storage & 4,000 sqft Storage Area (lockers); Population of 108 (See DEIR Section 4.K., Population, Housing, and Employment; value rounded up).

Construction Phase - See construction assumptions.

Off-road Equipment - See Construction Assumptions

Off-road Equipment - See Construction Assumptions

Off-road Equipment - See Construction Assumptions
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 Off-road Equipment - See Construction Assumptions
 Off-road Equipment - See Construction Assumptions
 Off-road Equipment - See Construction Assumptions
 Trips and VMT - See Construction Assumptions
 Demolition - See Construction Assumptions - Demo Calcs
 Grading - See Construction Assumptions

Construction Off-road Equipment Mitigation - Water exposed area twice daily (55% reduction in Fugitive Dust PM10 and PM2.5).

| Table Name | Column Name | Default Value | New Value |
|----------------------|----------------|---------------|------------|
| tblConstructionPhase | NumDays | 20.00 | 132.00 |
| tblConstructionPhase | NumDays | 230.00 | 131.00 |
| tblConstructionPhase | NumDays | 230.00 | 327.00 |
| tblConstructionPhase | NumDays | 230.00 | 66.00 |
| tblConstructionPhase | NumDays | 20.00 | 22.00 |
| tblConstructionPhase | NumDays | 20.00 | 44.00 |
| tblConstructionPhase | NumDays | 20.00 | 132.00 |
| tblConstructionPhase | NumDays | 20.00 | 65.00 |
| tblConstructionPhase | NumDays | 20.00 | 23.00 |
| tblConstructionPhase | PhaseEndDate | 5/18/2017 | 11/15/2016 |
| tblConstructionPhase | PhaseEndDate | 5/17/2017 | 11/15/2016 |
| tblConstructionPhase | PhaseEndDate | 1/16/2017 | 2/15/2017 |
| tblConstructionPhase | PhaseEndDate | 8/14/2015 | 8/15/2015 |
| tblConstructionPhase | PhaseEndDate | 5/18/2017 | 11/15/2016 |
| tblConstructionPhase | PhaseEndDate | 2/14/2017 | 10/15/2016 |
| tblConstructionPhase | PhaseEndDate | 3/20/2017 | 2/15/2017 |
| tblConstructionPhase | PhaseStartDate | 11/16/2016 | 5/16/2016 |
| tblConstructionPhase | PhaseStartDate | 2/16/2016 | 8/16/2015 |

| | | | |
|----------------------|----------------------------|------------|------------|
| tblConstructionPhase | PhaseStartDate | 10/16/2016 | 11/16/2016 |
| tblConstructionPhase | PhaseStartDate | 11/16/2016 | 5/16/2016 |
| tblConstructionPhase | PhaseStartDate | 11/16/2016 | 7/16/2016 |
| tblConstructionPhase | PhaseStartDate | 2/16/2017 | 1/16/2017 |
| tblGrading | AcresOfGrading | 44.00 | 5.80 |
| tblGrading | MaterialImported | 0.00 | 16,000.00 |
| tblGrading | MaterialSiltContent | 6.90 | 4.30 |
| tblGrading | MeanVehicleSpeed | 7.10 | 40.00 |
| tblLandUse | LandUseSquareFeet | 17,080.00 | 17,075.00 |
| tblLandUse | LandUseSquareFeet | 49,000.00 | 85,644.00 |
| tblLandUse | LandUseSquareFeet | 32,860.00 | 32,859.00 |
| tblLandUse | LotAcreage | 0.39 | 0.52 |
| tblLandUse | LotAcreage | 0.84 | 1.12 |
| tblLandUse | LotAcreage | 0.08 | 0.11 |
| tblLandUse | LotAcreage | 0.09 | 0.12 |
| tblLandUse | LotAcreage | 1.29 | 4.10 |
| tblLandUse | LotAcreage | 0.75 | 1.00 |
| tblLandUse | Population | 140.00 | 108.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| 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 | 2.00 |

| | | | |
|---------------------------|----------------------------|------|------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 4.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2017 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| Year | 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 |
|--------------|----------------|-----------------|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|------------------|------------------|---------------|---------------|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 2015 | 12.0304 | 82.0491 | 61.8754 | 0.0992 | 7.8564 | 5.0423 | 10.4819 | 1.4432 | 4.7984 | 5.2882 | 0.0000 | 10,043.46 | 10,043.46 | 1.7386 | 0.0000 | 10,079.97 |
| 2016 | 33.3678 | 90.8040 | 70.3406 | 0.1048 | 1.8274 | 5.4802 | 6.8298 | 0.4898 | 5.1546 | 5.5151 | 0.0000 | 10,339.93 | 10,339.93 | 2.2523 | 0.0000 | 10,387.23 |
| 2017 | 5.5254 | 42.9230 | 33.3865 | 0.0534 | 1.0590 | 2.1179 | 3.1769 | 0.2834 | 1.9497 | 2.2331 | 0.0000 | 5,174.295 | 5,174.295 | 1.1961 | 0.0000 | 5,199.414 |
| Total | 50.9236 | 215.7761 | 165.8026 | 0.2574 | 10.7428 | 12.6403 | 20.4886 | 2.2164 | 11.9027 | 13.0363 | 0.0000 | 25,557.69 | 25,557.69 | 5.1870 | 0.0000 | 25,666.62 |

Mitigated Construction

| Year | 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 |
|--------------|----------------|-----------------|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|------------------|------------------|---------------|---------------|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 2015 | 12.0228 | 81.9869 | 61.8321 | 0.0991 | 28.9613 | 5.0377 | 32.9653 | 7.1572 | 4.7941 | 10.8963 | 0.0000 | 10,037.70 | 10,037.70 | 1.7370 | 0.0000 | 10,074.18 |
| 2016 | 33.3593 | 90.7229 | 70.4843 | 0.1047 | 1.8274 | 5.4752 | 6.8248 | 0.4898 | 5.1499 | 5.5104 | 0.0000 | 10,332.05 | 10,332.05 | 2.2503 | 0.0000 | 10,379.31 |
| 2017 | 5.5220 | 42.8855 | 33.3622 | 0.0534 | 1.0590 | 2.1160 | 3.1750 | 0.2834 | 1.9479 | 2.2313 | 0.0000 | 5,170.832 | 5,170.832 | 1.1951 | 0.0000 | 5,195.929 |
| Total | 50.9041 | 215.5953 | 165.6785 | 0.2572 | 31.8477 | 12.6289 | 42.9651 | 7.9304 | 11.8919 | 18.6380 | 0.0000 | 25,540.59 | 25,540.59 | 5.1824 | 0.0000 | 25,649.42 |

| Percent Reduction | 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 |
|-------------------|---------------|---------------|---------------|---------------|------------------|---------------|------------------|------------------|---------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 0.0383 | 0.0838 | 0.0748 | 0.0661 | -196.4572 | 0.0906 | -109.7020 | -257.8020 | 0.0907 | -42.9694 | 0.0000 | 0.0669 | 0.0669 | 0.0887 | 0.0000 | 0.0670 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|---|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 5/15/2015 | 6/15/2015 | 5 | 22 | |
| 2 | Excavation & De-watering | Grading | 6/16/2015 | 8/15/2015 | 5 | 44 | |
| 3 | Infrastructure/Foundations | Building Construction | 8/16/2015 | 2/15/2016 | 5 | 131 | |
| 4 | Vertical Construction | Building Construction | 8/16/2015 | 11/15/2016 | 5 | 327 | |
| 5 | Reconfigure Mobile Home Park | Paving | 5/16/2016 | 11/15/2016 | 5 | 132 | |
| 6 | Architectural Coating | Architectural Coating | 5/16/2016 | 11/15/2016 | 5 | 132 | |
| 7 | Bayside Dr Roadway Improvements & Trail Final Landscaping | Paving | 7/16/2016 | 10/15/2016 | 5 | 65 | |
| 8 | | Building Construction | 11/16/2016 | 2/15/2017 | 5 | 66 | |
| 9 | Paving | Paving | 1/16/2017 | 2/15/2017 | 5 | 23 | |

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|--------------------------|------------------------------|--------|-------------|-------------|-------------|
| Demolition | Aerial Lifts | 1 | 8.00 | 62 | 0.31 |
| Demolition | Concrete/Industrial Saws | 2 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 0 | 8.00 | 162 | 0.38 |
| Demolition | Other Construction Equipment | 1 | 8.00 | 171 | 0.42 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Excavation & De-watering | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Excavation & De-watering | Bore/Drill Rigs | 1 | 8.00 | 205 | 0.50 |
| Excavation & De-watering | Excavators | 2 | 8.00 | 162 | 0.38 |
| Excavation & De-watering | Graders | 2 | 8.00 | 174 | 0.41 |
| Excavation & De-watering | Other Construction Equipment | 1 | 8.00 | 171 | 0.42 |
| Excavation & De-watering | Pumps | 1 | 8.00 | 84 | 0.74 |
| Excavation & De-watering | Rubber Tired Dozers | 0 | 8.00 | 255 | 0.40 |
| Excavation & De-watering | Rubber Tired Loaders | 1 | 8.00 | 199 | 0.36 |

| | | | | | |
|---|------------------------------|---|------|-----|------|
| Excavation & De-watering | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Infrastructure/Foundations | Air Compressors | 2 | 8.00 | 78 | 0.48 |
| Infrastructure/Foundations | Cement and Mortar Mixers | 2 | 8.00 | 9 | 0.56 |
| Infrastructure/Foundations | Cranes | 0 | 7.00 | 226 | 0.29 |
| Infrastructure/Foundations | Forklifts | 0 | 8.00 | 89 | 0.20 |
| Infrastructure/Foundations | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Infrastructure/Foundations | Other Construction Equipment | 1 | 8.00 | 171 | 0.42 |
| Infrastructure/Foundations | Pumps | 1 | 8.00 | 84 | 0.74 |
| Infrastructure/Foundations | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Infrastructure/Foundations | Welders | 0 | 8.00 | 46 | 0.45 |
| Vertical Construction | Aerial Lifts | 2 | 8.00 | 62 | 0.31 |
| Vertical Construction | Air Compressors | 2 | 8.00 | 78 | 0.48 |
| Vertical Construction | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Vertical Construction | Cranes | 1 | 4.00 | 226 | 0.29 |
| Vertical Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Vertical Construction | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Vertical Construction | Other Construction Equipment | 2 | 8.00 | 171 | 0.42 |
| Vertical Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Vertical Construction | Welders | 0 | 8.00 | 46 | 0.45 |
| Reconfigure Mobile Home Park | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Reconfigure Mobile Home Park | Pavers | 1 | 8.00 | 125 | 0.42 |
| Reconfigure Mobile Home Park | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Reconfigure Mobile Home Park | Rollers | 1 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Bayside Dr Roadway Improvements & Trail | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Bayside Dr Roadway Improvements & Trail | Pavers | 1 | 8.00 | 125 | 0.42 |
| Bayside Dr Roadway Improvements & Trail | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Bayside Dr Roadway Improvements & Trail | Rollers | 1 | 8.00 | 80 | 0.38 |
| Bayside Dr Roadway Improvements & Trail | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Bayside Dr Roadway Improvements & Trail | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

| | | | | | |
|-------------------|---------------------------|---|------|-----|------|
| Final Landscaping | Cranes | 0 | 7.00 | 226 | 0.29 |
| Final Landscaping | Crawler Tractors | 1 | 8.00 | 208 | 0.43 |
| Final Landscaping | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Final Landscaping | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Final Landscaping | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Final Landscaping | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Final Landscaping | Welders | 0 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 125 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 130 | 0.36 |
| Paving | Rollers | 1 | 8.00 | 80 | 0.38 |

Trips and VMT

| 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 |
|---|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 7 | 18.00 | 0.00 | 720.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Excavation & De-Material | 11 | 28.00 | 0.00 | 2,000.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Infrastructure/Foundation | 8 | 70.00 | 21.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Vertical Construction | 12 | 70.00 | 21.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Reconfigure Mobile Home Park | 4 | 10.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 14.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Bayside Dr Roadway Improvements & Trail | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Final Landscaping | 4 | 70.00 | 21.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

| Category | 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 |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 7.0850 | 0.0000 | 7.0850 | 1.0727 | 0.0000 | 1.0727 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.1888 | 40.1875 | 28.8089 | 0.0354 | | 2.4464 | 2.4464 | | 2.3128 | 2.3128 | | 3.592.746 | 3.592.746 | 0.8459 | | 3,610.510 |
| Total | 4.1888 | 40.1875 | 28.8089 | 0.0354 | 7.0850 | 2.4464 | 9.5314 | 1.0727 | 2.3128 | 3.3855 | | 3,592.746 | 3,592.746 | 0.8459 | | 3,610.510 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Hauling | 1.4152 | 10.1777 | 6.8586 | 0.0242 | 0.5702 | 0.1774 | 0.7476 | 0.1561 | 0.1632 | 0.3193 | | 2,459.673 | 2,459.673 | 0.0193 | | 2,460.078 |
| 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 |
| Worker | 0.3890 | 0.1042 | 1.2923 | 2.5500e-003 | 0.2012 | 1.7700e-003 | 0.2030 | 0.0534 | 1.6200e-003 | 0.0550 | | 221.7418 | 221.7418 | 0.0119 | | 221.9925 |
| Total | 1.8042 | 10.2819 | 8.1509 | 0.0267 | 0.7714 | 0.1792 | 0.9505 | 0.2095 | 0.1648 | 0.3743 | | 2,681.415 | 2,681.415 | 0.0312 | | 2,682.070 |

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 | lb/day | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 3.1883 | 0.0000 | 3.1883 | 0.4827 | 0.0000 | 0.4827 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.1849 | 40.1506 | 28.7825 | 0.0354 | 2.4442 | 2.4442 | 2.4442 | 2.3106 | 2.3106 | 2.3106 | 0.0000 | 3,589.449 ⁸ | 3,589.449 ⁸ | 0.8452 | | 3,607.198 ³ |
| Total | 4.1849 | 40.1506 | 28.7825 | 0.0354 | 3.1883 | 2.4442 | 5.6324 | 0.4827 | 2.3106 | 2.7934 | 0.0000 | 3,589.449⁸ | 3,589.449⁸ | 0.8452 | | 3,607.198³ |

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 | lb/day | | | | | | | | | | | | | | | |
| Hauling | 1.4152 | 10.1777 | 6.8586 | 0.0242 | 9.6567 | 0.1774 | 9.8341 | 2.3865 | 0.1632 | 2.5496 | | | 2,459.673 ⁷ | 0.0193 | | 2,460.078 ¹ |
| 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 |
| Worker | 0.3890 | 0.1042 | 1.2923 | 2.5500e-003 | 0.2012 | 1.7700e-003 | 0.2030 | 0.0534 | 1.6200e-003 | 0.0550 | | | 221.7418 | 0.0119 | | 221.9925 |
| Total | 1.8042 | 10.2819 | 8.1509 | 0.0267 | 9.8579 | 0.1792 | 10.0370 | 2.4398 | 0.1648 | 2.6046 | | 2,681.415⁴ | 2,681.415⁴ | 0.0312 | | 2,682.070⁶ |

3.3 Excavation & De-watering - 2015
Unmitigated Construction On-Site

Acres of Grading: 0

| Category | 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 |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 4.4781 | 0.0000 | 4.4781 | 1.1434 | 0.0000 | 1.1434 | | | 0.0000 | | | 0.0000 |
| Off-Road | 6.5677 | 67.7513 | 36.4066 | 0.0609 | 3.7583 | 3.7583 | 3.7583 | 3.5131 | 3.5131 | 3.5131 | | 6,282.323 | 6,282.323 | 1.6932 | | 6,317.881 |
| Total | 6.5677 | 67.7513 | 36.4066 | 0.0609 | 4.4781 | 3.7583 | 8.2364 | 1.1434 | 3.5131 | 4.6565 | | 6,282.323 | 6,282.323 | 1.6932 | | 6,317.881 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Hauling | 1.9656 | 14.1357 | 9.5259 | 0.0336 | 0.7919 | 0.2464 | 1.0383 | 0.2168 | 0.2266 | 0.4435 | | 3,416.213 | 3,416.213 | 0.0268 | | 3,416.775 |
| 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 |
| Worker | 0.6050 | 0.1621 | 2.0102 | 3.9700e-003 | 0.3130 | 2.7500e-003 | 0.3157 | 0.0830 | 2.5200e-003 | 0.0855 | | 344.9316 | 344.9316 | 0.0186 | | 345.3217 |
| Total | 2.5706 | 14.2978 | 11.5361 | 0.0375 | 1.1048 | 0.2491 | 1.3540 | 0.2998 | 0.2292 | 0.5290 | | 3,761.145 | 3,761.145 | 0.0453 | | 3,762.096 |

Mitigated Construction On-Site

| Category | 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 |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 2.0152 | 0.0000 | 2.0152 | 0.5145 | 0.0000 | 0.5145 | | | 0.0000 | | | 0.0000 |
| Off-Road | 6.5617 | 67.6891 | 36.3732 | 0.0608 | | 3.7548 | 3.7548 | | 3.5099 | 3.5099 | 0.0000 | 6,276.5598 | 6,276.5598 | 1.6917 | | 6,312.0853 |
| Total | 6.5617 | 67.6891 | 36.3732 | 0.0608 | 2.0152 | 3.7548 | 5.7700 | 0.5145 | 3.5099 | 4.0244 | 0.0000 | 6,276.5598 | 6,276.5598 | 1.6917 | | 6,312.0853 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Hauling | 1.9656 | 14.1357 | 9.5259 | 0.0336 | 26.6332 | 0.2464 | 26.8795 | 6.5597 | 0.2266 | 6.7863 | | | 3,416.2134 | 0.0268 | | 3,416.7751 |
| 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 |
| Worker | 0.6050 | 0.1621 | 2.0102 | 3.9700e-003 | 0.3130 | 2.7500e-003 | 0.3157 | 0.0830 | 2.5200e-003 | 0.0855 | | | 344.9316 | 0.0186 | | 345.3217 |
| Total | 2.5706 | 14.2978 | 11.5361 | 0.0375 | 26.9461 | 0.2491 | 27.1953 | 6.6427 | 0.2292 | 6.8719 | | | 3,761.1451 | 0.0453 | | 3,762.0968 |

3.4 Infrastructure/Foundations - 2015

Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 3.3730 | 27.6599 | 18.7193 | 0.0283 | 1.9692 | 1.9692 | 1.9692 | 1.8932 | 1.8932 | 1.8932 | 2,774.7048 | 2,774.7048 | 2,774.7048 | 0.5632 | | 2,786.5326 |
| Total | 3.3730 | 27.6599 | 18.7193 | 0.0283 | 1.9692 | 1.9692 | 1.9692 | 1.8932 | 1.8932 | 1.8932 | 2,774.7048 | 2,774.7048 | 2,774.7048 | 0.5632 | | 2,786.5326 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3604 | 2.0535 | 2.2726 | 4.5700e-003 | 0.1312 | 0.0359 | 0.1671 | 0.0374 | 0.0330 | 0.0704 | 462.9602 | 462.9602 | 462.9602 | 3.6200e-003 | | 463.0362 |
| Worker | 1.5126 | 0.4053 | 5.0256 | 9.9200e-003 | 0.7824 | 6.8900e-003 | 0.7893 | 0.2075 | 6.3100e-003 | 0.2138 | 862.3291 | 862.3291 | 862.3291 | 0.0464 | | 863.3041 |
| Total | 1.8730 | 2.4588 | 7.2982 | 0.0145 | 0.9136 | 0.0428 | 0.9564 | 0.2449 | 0.0393 | 0.2842 | 1,325.2893 | 1,325.2893 | 1,325.2893 | 0.0501 | | 1,326.3403 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 3.3699 | 27.6346 | 18.7021 | 0.0283 | 1.9674 | 1.9674 | 1.9674 | 1.8914 | 1.8914 | 1.8914 | 0.0000 | 2,772.159 | 2,772.159 | 0.5627 | | 2,783.976 |
| Total | 3.3699 | 27.6346 | 18.7021 | 0.0283 | 1.9674 | 1.9674 | 1.9674 | 1.8914 | 1.8914 | 1.8914 | 0.0000 | 2,772.159 | 2,772.159 | 0.5627 | | 2,783.976 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3604 | 2.0535 | 2.2726 | 4.5700e-003 | 0.1312 | 0.0359 | 0.1671 | 0.0374 | 0.0330 | 0.0704 | 462.9602 | 462.9602 | 462.9602 | 3.6200e-003 | | 463.0362 |
| Worker | 1.5126 | 0.4053 | 5.0256 | 9.9200e-003 | 0.7824 | 6.8900e-003 | 0.7893 | 0.2075 | 6.3100e-003 | 0.2138 | 862.3291 | 862.3291 | 862.3291 | 0.0464 | | 863.3041 |
| Total | 1.8730 | 2.4588 | 7.2982 | 0.0145 | 0.9136 | 0.0428 | 0.9564 | 0.2449 | 0.0393 | 0.2842 | 1,325.289 | 1,325.289 | 1,325.289 | 0.0501 | | 1,326.340 |

3.4 Infrastructure/Foundations - 2016

Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 3.1145 | 25.8528 | 18.5800 | 0.0283 | 1.7991 | 1.7991 | 1.7991 | 1.7280 | 1.7280 | 1.7280 | 2,760.315 | 3 | 2,760.315 | 0.5471 | | 2,771.804 |
| Total | 3.1145 | 25.8528 | 18.5800 | 0.0283 | 1.7991 | 1.7991 | 1.7991 | 1.7280 | 1.7280 | 1.7280 | 2,760.315 | 3 | 2,760.315 | 0.5471 | | 2,771.804 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3141 | 1.8137 | 2.0914 | 4.5700e-003 | 0.1313 | 0.0299 | 0.1611 | 0.0374 | 0.0275 | 0.0648 | 457.8607 | 457.8607 | 457.8607 | 3.2700e-003 | | 457.9294 |
| Worker | 1.4094 | 0.3656 | 4.5501 | 9.9100e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | 832.6209 | 832.6209 | 832.6209 | 0.0427 | | 833.5180 |
| Total | 1.7234 | 2.1793 | 6.6415 | 0.0145 | 0.9137 | 0.0364 | 0.9501 | 0.2449 | 0.0335 | 0.2784 | 1,290.481 | 6 | 1,290.481 | 0.0460 | | 1,291.447 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 3.1116 | 25.8291 | 18.5629 | 0.0283 | 1.7974 | 1.7974 | 1.7974 | 1.7264 | 1.7264 | 1.7264 | 0.0000 | 2,757.7829 | 2,757.7829 | 0.5466 | | 2,769.2612 |
| Total | 3.1116 | 25.8291 | 18.5629 | 0.0283 | 1.7974 | 1.7974 | 1.7974 | 1.7264 | 1.7264 | 1.7264 | 0.0000 | 2,757.7829 | 2,757.7829 | 0.5466 | | 2,769.2612 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3141 | 1.8137 | 2.0914 | 4.5700e-003 | 0.1313 | 0.0299 | 0.1611 | 0.0374 | 0.0275 | 0.0648 | | 457.8607 | 457.8607 | 3.2700e-003 | | 457.9294 |
| Worker | 1.4094 | 0.3656 | 4.5501 | 9.9100e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | | 832.6209 | 832.6209 | 0.0427 | | 833.5180 |
| Total | 1.7234 | 2.1793 | 6.6415 | 0.0145 | 0.9137 | 0.0364 | 0.9501 | 0.2449 | 0.0335 | 0.2784 | | 1,290.4816 | 1,290.4816 | 0.0460 | | 1,291.4473 |

3.5 Vertical Construction - 2015
Unmitigated Construction On-Site

Acres of Paving: 0

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 4.9115 | 45.1574 | 28.5598 | 0.0419 | 2.9875 | 2.9875 | 2.9875 | 2.8266 | 2.8266 | 2.8266 | 4,252.0953 | 4,252.0953 | 4,252.0953 | 1.0298 | | 4,273.7205 |
| Total | 4.9115 | 45.1574 | 28.5598 | 0.0419 | 2.9875 | 2.9875 | 2.9875 | 2.8266 | 2.8266 | 2.8266 | 4,252.0953 | 4,252.0953 | 4,252.0953 | 1.0298 | | 4,273.7205 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3604 | 2.0535 | 2.2726 | 4.5700e-003 | 0.1312 | 0.0359 | 0.1671 | 0.0374 | 0.0330 | 0.0704 | | | 462.9602 | 3.6200e-003 | | 463.0362 |
| Worker | 1.5126 | 0.4053 | 5.0256 | 9.9200e-003 | 0.7824 | 6.8900e-003 | 0.7893 | 0.2075 | 6.3100e-003 | 0.2138 | | | 862.3291 | 0.0464 | | 863.3041 |
| Total | 1.8730 | 2.4588 | 7.2982 | 0.0145 | 0.9136 | 0.0428 | 0.9564 | 0.2449 | 0.0393 | 0.2842 | 1,325.2893 | 1,325.2893 | 1,325.2893 | 0.0501 | | 1,326.3403 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 4.9070 | 45.1159 | 28.5336 | 0.0418 | 2.9847 | 2.9847 | 2.9847 | 2.8240 | 2.8240 | 2.8240 | 0.0000 | 4,248.1943 | 4,248.1943 | 1.0288 | | 4,269.7996 |
| Total | 4.9070 | 45.1159 | 28.5336 | 0.0418 | 2.9847 | 2.9847 | 2.9847 | 2.8240 | 2.8240 | 2.8240 | 0.0000 | 4,248.1943 | 4,248.1943 | 1.0288 | | 4,269.7996 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3604 | 2.0535 | 2.2726 | 4.5700e-003 | 0.1312 | 0.0359 | 0.1671 | 0.0374 | 0.0330 | 0.0704 | 462.9602 | 462.9602 | 462.9602 | 3.6200e-003 | | 463.0362 |
| Worker | 1.5126 | 0.4053 | 5.0256 | 9.9200e-003 | 0.7824 | 6.8900e-003 | 0.7893 | 0.2075 | 6.3100e-003 | 0.2138 | 862.3291 | 862.3291 | 862.3291 | 0.0464 | | 863.3041 |
| Total | 1.8730 | 2.4588 | 7.2982 | 0.0145 | 0.9136 | 0.0428 | 0.9564 | 0.2449 | 0.0393 | 0.2842 | 1,325.2893 | 1,325.2893 | 1,325.2893 | 0.0501 | | 1,326.3403 |

3.5 Vertical Construction - 2016
Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 4.5650 | 42.2143 | 28.3167 | 0.0419 | | 2.7440 | 2.7440 | | 2.5942 | 2.5942 | | 4,221.0339 | 4,221.0339 | 1.0139 | | 4,242.3259 |
| Total | 4.5650 | 42.2143 | 28.3167 | 0.0419 | | 2.7440 | 2.7440 | | 2.5942 | 2.5942 | | 4,221.0339 | 4,221.0339 | 1.0139 | | 4,242.3259 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3141 | 1.8137 | 2.0914 | 4.5700e-003 | 0.1313 | 0.0299 | 0.1611 | 0.0374 | 0.0275 | 0.0648 | | 457.8607 | 457.8607 | 3.2700e-003 | | 457.9294 |
| Worker | 1.4094 | 0.3656 | 4.5501 | 9.9100e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | | 832.6209 | 832.6209 | 0.0427 | | 833.5180 |
| Total | 1.7234 | 2.1793 | 6.6415 | 0.0145 | 0.9137 | 0.0364 | 0.9501 | 0.2449 | 0.0335 | 0.2784 | | 1,290.4816 | 1,290.4816 | 0.0460 | | 1,291.4473 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 4.5608 | 42.1755 | 28.2907 | 0.0418 | 2.7415 | 2.7415 | 2.7415 | 2.5918 | 2.5918 | 2.5918 | 0.0000 | 4,217.1614 | 4,217.1614 | 1.0130 | | 4,238.4338 |
| Total | 4.5608 | 42.1755 | 28.2907 | 0.0418 | 2.7415 | 2.7415 | 2.7415 | 2.5918 | 2.5918 | 2.5918 | 0.0000 | 4,217.1614 | 4,217.1614 | 1.0130 | | 4,238.4338 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3141 | 1.8137 | 2.0914 | 4.5700e-003 | 0.1313 | 0.0239 | 0.1611 | 0.0374 | 0.0275 | 0.0648 | 457.8607 | 457.8607 | 457.8607 | 3.2700e-003 | | 457.9294 |
| Worker | 1.4094 | 0.3656 | 4.5501 | 9.9100e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | 832.6209 | 832.6209 | 832.6209 | 0.0427 | | 833.5180 |
| Total | 1.7234 | 2.1793 | 6.6415 | 0.0145 | 0.9137 | 0.0364 | 0.9501 | 0.2449 | 0.0335 | 0.2784 | 1,290.4816 | 1,290.4816 | 1,290.4816 | 0.0460 | | 1,291.4473 |

3.6 Reconfigure Mobile Home Park - 2016

Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| | | | | | lb/day | | | | | | | | | | | |
| Off-Road | 1.5362 | 14.3559 | 9.9207 | 0.0151 | | 0.8926 | 0.8926 | | 0.8422 | 0.8422 | | 1,533.4524 | 1,533.4524 | 0.3936 | | 1,541.7179 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.5362 | 14.3559 | 9.9207 | 0.0151 | | 0.8926 | 0.8926 | | 0.8422 | 0.8422 | | 1,533.4524 | 1,533.4524 | 0.3936 | | 1,541.7179 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | | | | | lb/day | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.2013 | 0.0522 | 0.6500 | 1.4200e-003 | 0.1118 | 9.3000e-004 | 0.1127 | 0.0296 | 8.6000e-004 | 0.0305 | | 118.9458 | 118.9458 | 6.1000e-003 | | 119.0740 |
| Total | 0.2013 | 0.0522 | 0.6500 | 1.4200e-003 | 0.1118 | 9.3000e-004 | 0.1127 | 0.0296 | 8.6000e-004 | 0.0305 | | 118.9458 | 118.9458 | 6.1000e-003 | | 119.0740 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 1.5348 | 14.3428 | 9.9116 | 0.0151 | 0.8918 | 0.8918 | 0.8918 | 0.8414 | 0.8414 | 0.8414 | 0.0000 | 1,532.0456 | 1,532.0456 | 0.3932 | | 1,540.3034 |
| Paving | 0.0000 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.5348 | 14.3428 | 9.9116 | 0.0151 | 0.8918 | 0.8918 | 0.8918 | 0.8414 | 0.8414 | 0.8414 | 0.0000 | 1,532.0456 | 1,532.0456 | 0.3932 | | 1,540.3034 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.2013 | 0.0522 | 0.6500 | 1.4200e-003 | 0.1118 | 9.3000e-004 | 0.1127 | 0.0296 | 8.6000e-004 | 0.0305 | | 118.9458 | 118.9458 | 6.1000e-003 | | 119.0740 |
| Total | 0.2013 | 0.0522 | 0.6500 | 1.4200e-003 | 0.1118 | 9.3000e-004 | 0.1127 | 0.0296 | 8.6000e-004 | 0.0305 | | 118.9458 | 118.9458 | 6.1000e-003 | | 119.0740 |

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

Residential Indoor: 173,429; Residential Outdoor: 57,810; Non-Residential Indoor: 141,051; Non-Residential Outdoor: 47,017

| Category | 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 |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| Archit. Coating | 21.5842 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4913 | 3.1630 | 2.5119 | 3.9600e-003 | | 0.2622 | 0.2622 | | 0.2622 | 0.2622 | | 375.2641 | 375.2641 | 0.0442 | | 376.1932 |
| Total | 22.0754 | 3.1630 | 2.5119 | 3.9600e-003 | | 0.2622 | 0.2622 | | 0.2622 | 0.2622 | | 375.2641 | 375.2641 | 0.0442 | | 376.1932 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.2819 | 0.0731 | 0.9100 | 1.9800e-003 | 0.1565 | 1.3100e-003 | 0.1578 | 0.0415 | 1.2000e-003 | 0.0427 | | 166.5242 | 166.5242 | 8.5400e-003 | | 166.7036 |
| Total | 0.2819 | 0.0731 | 0.9100 | 1.9800e-003 | 0.1565 | 1.3100e-003 | 0.1578 | 0.0415 | 1.2000e-003 | 0.0427 | | 166.5242 | 166.5242 | 8.5400e-003 | | 166.7036 |

Mitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NI Bio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| | | | | | | | | | | | | | | | | |
| | lb/day | | | | | | | | | | | | | | | |
| Archit. Coating | 21.5842 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4908 | 3.1601 | 2.5096 | 3.9600e-003 | | 0.2619 | 0.2619 | | 0.2619 | 0.2619 | 0.0000 | 374.9198 | 374.9198 | 0.0442 | | 375.8480 |
| Total | 22.0750 | 3.1601 | 2.5096 | 3.9600e-003 | | 0.2619 | 0.2619 | | 0.2619 | 0.2619 | 0.0000 | 374.9198 | 374.9198 | 0.0442 | | 375.8480 |

Mitigated Construction Off-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NI Bio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | | | | | | | | | | | | | | | | |
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.2819 | 0.0731 | 0.9100 | 1.9800e-003 | 0.1565 | 1.3100e-003 | 0.1578 | 0.0415 | 1.2000e-003 | 0.0427 | | 166.5242 | 166.5242 | 8.5400e-003 | | 166.7036 |
| Total | 0.2819 | 0.0731 | 0.9100 | 1.9800e-003 | 0.1565 | 1.3100e-003 | 0.1578 | 0.0415 | 1.2000e-003 | 0.0427 | | 166.5242 | 166.5242 | 8.5400e-003 | | 166.7036 |

3.8 Bayside Dr Roadway Improvements & Trail - 2016

Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 2.6826 | 28.6879 | 20.6147 | 0.0239 | | 1.5414 | 1.5414 | | 1.4192 | 1.4192 | | 2,455.814 | 2,455.814 | 0.7308 | | 2,471.160 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 1 | 1 | 0.0000 | | 0.0000 |
| Total | 2.6826 | 28.6879 | 20.6147 | 0.0239 | | 1.5414 | 1.5414 | | 1.4192 | 1.4192 | | 2,455.814 | 2,455.814 | 0.7308 | | 2,471.160 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.3020 | 0.0783 | 0.9750 | 2.1200e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 178.4188 | 178.4188 | 9.1500e-003 | | 178.6110 |
| Total | 0.3020 | 0.0783 | 0.9750 | 2.1200e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 178.4188 | 178.4188 | 9.1500e-003 | | 178.6110 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 2.6801 | 28.6616 | 20.5958 | 0.0238 | 1.5399 | 1.5399 | 1.5399 | 1.4179 | 1.4179 | 1.4179 | 0.0000 | 2,453.5610 | 2,453.5610 | 0.7301 | | 2,468.8931 |
| Paving | 0.0000 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 2.6801 | 28.6616 | 20.5958 | 0.0238 | 1.5399 | 1.5399 | 1.5399 | 1.4179 | 1.4179 | 1.4179 | 0.0000 | 2,453.5610 | 2,453.5610 | 0.7301 | | 2,468.8931 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.3020 | 0.0783 | 0.9750 | 2.1200e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 178.4188 | 178.4188 | 9.1500e-003 | | 178.6110 |
| Total | 0.3020 | 0.0783 | 0.9750 | 2.1200e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 178.4188 | 178.4188 | 9.1500e-003 | | 178.6110 |

3.9 Final Landscaping - 2016
Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 2.5136 | 28.6186 | 17.0046 | 0.0212 | 1.4272 | 1.4272 | 1.4272 | 1.3130 | 1.3130 | 1.3130 | 2,206.159 | 3 | 2,206.159 | 0.6655 | | 2,220.133 |
| Total | 2.5136 | 28.6186 | 17.0046 | 0.0212 | 1.4272 | 1.4272 | 1.4272 | 1.3130 | 1.3130 | 1.3130 | 2,206.159 | 3 | 2,206.159 | 0.6655 | | 2,220.133 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3141 | 1.8137 | 2.0914 | 4.5700e-003 | 0.1313 | 0.0299 | 0.1611 | 0.0374 | 0.0275 | 0.0648 | 457.8607 | 457.8607 | 457.8607 | 3.2700e-003 | | 457.9294 |
| Worker | 1.4094 | 0.3656 | 4.5501 | 9.9100e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | 832.6209 | 832.6209 | 832.6209 | 0.0427 | | 833.5180 |
| Total | 1.7234 | 2.1793 | 6.6415 | 0.0145 | 0.9137 | 0.0364 | 0.9501 | 0.2449 | 0.0335 | 0.2784 | 1,290.481 | 6 | 1,290.481 | 0.0460 | | 1,291.447 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 2.5113 | 28.5924 | 16.9890 | 0.0212 | 1.4259 | 1.4259 | 1.4259 | 1.3118 | 1.3118 | 1.3118 | 0.0000 | 2,204.1352 | 2,204.1352 | 0.6649 | | 2,218.0970 |
| Total | 2.5113 | 28.5924 | 16.9890 | 0.0212 | 1.4259 | 1.4259 | 1.4259 | 1.3118 | 1.3118 | 1.3118 | 0.0000 | 2,204.1352 | 2,204.1352 | 0.6649 | | 2,218.0970 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3141 | 1.8137 | 2.0914 | 4.5700e-003 | 0.1313 | 0.0299 | 0.1611 | 0.0374 | 0.0275 | 0.0648 | 457.8607 | 457.8607 | 457.8607 | 3.2700e-003 | | 457.9294 |
| Worker | 1.4094 | 0.3656 | 4.5501 | 9.9100e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | 832.6209 | 832.6209 | 832.6209 | 0.0427 | | 833.5180 |
| Total | 1.7234 | 2.1793 | 6.6415 | 0.0145 | 0.9137 | 0.0364 | 0.9501 | 0.2449 | 0.0335 | 0.2784 | 1,290.4816 | 1,290.4816 | 1,290.4816 | 0.0460 | | 1,291.4473 |

3.9 Final Landscaping - 2017
Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 2.3956 | 27.1486 | 16.3311 | 0.0212 | 1.3393 | 1.3393 | 1.3393 | 1.2321 | 1.2321 | 1.2321 | 2,172.989 | 2 | 2,172.989 | 0.6658 | | 2,186.971 |
| Total | 2.3956 | 27.1486 | 16.3311 | 0.0212 | 1.3393 | 1.3393 | 1.3393 | 1.2321 | 1.2321 | 1.2321 | 2,172.989 | 2 | 2,172.989 | 0.6658 | | 2,186.971 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.2816 | 1.6503 | 1.9668 | 4.5600e-003 | 0.1313 | 0.0266 | 0.1579 | 0.0374 | 0.0245 | 0.0619 | 450.4447 | 450.4447 | 450.4447 | 3.1600e-003 | | 450.5110 |
| Worker | 1.3098 | 0.3301 | 4.1157 | 9.9100e-003 | 0.7824 | 6.2900e-003 | 0.7887 | 0.2075 | 5.8000e-003 | 0.2133 | 800.7535 | 800.7535 | 800.7535 | 0.0394 | | 801.5812 |
| Total | 1.5914 | 1.9804 | 6.0825 | 0.0145 | 0.9137 | 0.0329 | 0.9467 | 0.2449 | 0.0303 | 0.2752 | 1,251.198 | 1 | 1,251.198 | 0.0426 | | 1,252.092 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 2.3934 | 27.1237 | 16.3161 | 0.0212 | 1.3381 | 1.3381 | 1.3381 | 1.2310 | 1.2310 | 1.2310 | 0.0000 | 2,170.9956 | 2,170.9956 | 0.6652 | | 2,184.9645 |
| Total | 2.3934 | 27.1237 | 16.3161 | 0.0212 | 1.3381 | 1.3381 | 1.3381 | 1.2310 | 1.2310 | 1.2310 | 0.0000 | 2,170.9956 | 2,170.9956 | 0.6652 | | 2,184.9645 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.2816 | 1.6503 | 1.9668 | 4.5600e-003 | 0.1313 | 0.0266 | 0.1579 | 0.0374 | 0.0245 | 0.0619 | 450.4447 | 450.4447 | 450.4447 | 3.1600e-003 | | 450.5110 |
| Worker | 1.3098 | 0.3301 | 4.1157 | 9.9100e-003 | 0.7824 | 6.2900e-003 | 0.7887 | 0.2075 | 5.8000e-003 | 0.2133 | 800.7535 | 800.7535 | 800.7535 | 0.0394 | | 801.5812 |
| Total | 1.5914 | 1.9804 | 6.0825 | 0.0145 | 0.9137 | 0.0329 | 0.9467 | 0.2449 | 0.0303 | 0.2752 | 1,251.1981 | 1,251.1981 | 1,251.1981 | 0.0426 | | 1,252.0922 |

3.10 Paving - 2017

Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 1.2951 | 13.7327 | 10.2085 | 0.0159 | | 0.7445 | 0.7445 | | 0.6861 | 0.6861 | | 1,601.3970 | 1,601.3970 | 0.4804 | | 1,611.4861 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.2951 | 13.7327 | 10.2085 | 0.0159 | | 0.7445 | 0.7445 | | 0.6861 | 0.6861 | | 1,601.3970 | 1,601.3970 | 0.4804 | | 1,611.4861 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.2433 | 0.0613 | 0.7644 | 1.8400e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 148.7114 | 148.7114 | 7.3200e-003 | | 148.8651 |
| Total | 0.2433 | 0.0613 | 0.7644 | 1.8400e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 148.7114 | 148.7114 | 7.3200e-003 | | 148.8651 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 1.2939 | 13.7201 | 10.1992 | 0.0159 | 0.7438 | 0.7438 | 0.7438 | 0.6855 | 0.6855 | 0.6855 | 0.0000 | 1,599.9278 | 1,599.9278 | 0.4800 | | 1,610.0076 |
| Paving | 0.0000 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.2939 | 13.7201 | 10.1992 | 0.0159 | 0.7438 | 0.7438 | 0.7438 | 0.6855 | 0.6855 | 0.6855 | 0.0000 | 1,599.9278 | 1,599.9278 | 0.4800 | | 1,610.0076 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.2433 | 0.0613 | 0.7644 | 1.8400e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 148.7114 | 148.7114 | 7.3200e-003 | | 148.8651 |
| Total | 0.2433 | 0.0613 | 0.7644 | 1.8400e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 148.7114 | 148.7114 | 7.3200e-003 | | 148.8651 |

Newport Back Bay Landing - Construction South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-------|---------------|-------------|--------------------|------------|
| General Office Building | 17.08 | 1000sqft | 0.52 | 17,075.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 36.50 | 1000sqft | 1.12 | 36,500.00 | 0 |
| High Turnover (Sit Down Restaurant) | 3.50 | 1000sqft | 0.11 | 3,500.00 | 0 |
| Quality Restaurant | 4.10 | 1000sqft | 0.12 | 4,100.00 | 0 |
| Apartments Mid Rise | 49.00 | Dwelling Unit | 4.10 | 85,644.00 | 108 |
| Strip Mall | 32.86 | 1000sqft | 1.00 | 32,859.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------|-------|-------------------------|-----|----------------------------------|------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 8 | | | Operational Year | 2017 |

Utility Company Southern California Edison

| | | | | | |
|---------------------------------|--------|---------------------------------|-------|---------------------------------|-------|
| CO2 Intensity (lb/MW/hr) | 630.89 | CH4 Intensity (lb/MW/hr) | 0.029 | N2O Intensity (lb/MW/hr) | 0.006 |
|---------------------------------|--------|---------------------------------|-------|---------------------------------|-------|

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction Emissions

Land Use - Unrefrigerated Warehouse refers to the 32,500 sqft Enclosed Dry-Stack Boat Storage & 4,000 sqft Storage Area (lockers); Population of 108 (See DEIR Section 4.K., Population, Housing, and Employment; value rounded up).

Construction Phase - See construction assumptions.

Off-road Equipment - See Construction Assumptions

Off-road Equipment - See Construction Assumptions

Off-road Equipment - See Construction Assumptions
 Off-road Equipment - See Construction Assumptions
 Off-road Equipment - See Construction Assumptions
 Off-road Equipment - See Construction Assumptions
 Off-road Equipment - See Construction Assumptions
 Off-road Equipment - See Construction Assumptions
 Off-road Equipment - See Construction Assumptions
 Off-road Equipment - See Construction Assumptions
 Trips and VMT - See Construction Assumptions
 Demolition - See Construction Assumptions - Demo Calcs
 Grading - See Construction Assumptions

Construction Off-road Equipment Mitigation - Water exposed area twice daily (55% reduction in Fugitive Dust PM10 and PM2.5).

| Table Name | Column Name | Default Value | New Value |
|----------------------|----------------|---------------|------------|
| tblConstructionPhase | NumDays | 20.00 | 132.00 |
| tblConstructionPhase | NumDays | 230.00 | 131.00 |
| tblConstructionPhase | NumDays | 230.00 | 327.00 |
| tblConstructionPhase | NumDays | 230.00 | 66.00 |
| tblConstructionPhase | NumDays | 20.00 | 22.00 |
| tblConstructionPhase | NumDays | 20.00 | 44.00 |
| tblConstructionPhase | NumDays | 20.00 | 132.00 |
| tblConstructionPhase | NumDays | 20.00 | 65.00 |
| tblConstructionPhase | NumDays | 20.00 | 23.00 |
| tblConstructionPhase | PhaseEndDate | 5/18/2017 | 11/15/2016 |
| tblConstructionPhase | PhaseEndDate | 5/17/2017 | 11/15/2016 |
| tblConstructionPhase | PhaseEndDate | 1/16/2017 | 2/15/2017 |
| tblConstructionPhase | PhaseEndDate | 8/14/2015 | 8/15/2015 |
| tblConstructionPhase | PhaseEndDate | 5/18/2017 | 11/15/2016 |
| tblConstructionPhase | PhaseEndDate | 2/14/2017 | 10/15/2016 |
| tblConstructionPhase | PhaseEndDate | 3/20/2017 | 2/15/2017 |
| tblConstructionPhase | PhaseStartDate | 11/16/2016 | 5/16/2016 |
| tblConstructionPhase | PhaseStartDate | 2/16/2016 | 8/16/2015 |

| | | | |
|----------------------|----------------------------|------------|------------|
| tblConstructionPhase | PhaseStartDate | 10/16/2016 | 11/16/2016 |
| tblConstructionPhase | PhaseStartDate | 11/16/2016 | 5/16/2016 |
| tblConstructionPhase | PhaseStartDate | 11/16/2016 | 7/16/2016 |
| tblConstructionPhase | PhaseStartDate | 2/16/2017 | 1/16/2017 |
| tblGrading | AcresOfGrading | 44.00 | 5.80 |
| tblGrading | MaterialImported | 0.00 | 16,000.00 |
| tblGrading | MaterialSiltContent | 6.90 | 4.30 |
| tblGrading | MeanVehicleSpeed | 7.10 | 40.00 |
| tblLandUse | LandUseSquareFeet | 17,080.00 | 17,075.00 |
| tblLandUse | LandUseSquareFeet | 49,000.00 | 85,644.00 |
| tblLandUse | LandUseSquareFeet | 32,860.00 | 32,859.00 |
| tblLandUse | LotAcreage | 0.39 | 0.52 |
| tblLandUse | LotAcreage | 0.84 | 1.12 |
| tblLandUse | LotAcreage | 0.08 | 0.11 |
| tblLandUse | LotAcreage | 0.09 | 0.12 |
| tblLandUse | LotAcreage | 1.29 | 4.10 |
| tblLandUse | LotAcreage | 0.75 | 1.00 |
| tblLandUse | Population | 140.00 | 108.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| 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 | 2.00 |

| | | | |
|---------------------------|----------------------------|------|------|
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tb\OffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tb\OffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tb\OffRoadEquipment | UsageHours | 7.00 | 4.00 |
| tb\OffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tb\OffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tb\OffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tb\ProjectCharacteristics | OperationalYear | 2014 | 2017 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| Year | 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 |
|--------------|----------------|-----------------|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|------------------|------------------|---------------|---------------|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 2015 | 12.6714 | 82.5795 | 61.9616 | 0.0981 | 7.8564 | 5.0431 | 10.4825 | 1.4432 | 4.7992 | 5.2890 | 0.0000 | 10,014.02 | 10,014.02 | 1.7389 | 0.0000 | 10,050.54 |
| 2016 | 33.8134 | 90.9054 | 70.4029 | 0.1038 | 1.8274 | 5.4805 | 6.8301 | 0.4898 | 5.1549 | 5.5154 | 0.0000 | 10,255.71 | 10,255.71 | 2.2524 | 0.0000 | 10,303.01 |
| 2017 | 5.8502 | 43.0018 | 33.4035 | 0.0526 | 1.0590 | 2.1182 | 3.1772 | 0.2834 | 1.9499 | 2.2333 | 0.0000 | 5,111.518 | 5,111.518 | 1.1962 | 0.0000 | 5,136.639 |
| Total | 52.3370 | 216.4867 | 165.7680 | 0.2545 | 10.7428 | 12.6418 | 20.4898 | 2.2164 | 11.9040 | 13.0376 | 0.0000 | 25,381.25 | 25,381.25 | 5.1875 | 0.0000 | 25,490.19 |

Mitigated Construction

| Year | 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 |
|--------------|----------------|-----------------|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|------------------|------------------|---------------|---------------|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 2015 | 12.6638 | 82.5173 | 61.9182 | 0.0980 | 28.9613 | 5.0386 | 32.9661 | 7.1572 | 4.7949 | 10.8970 | 0.0000 | 10,008.25 | 10,008.25 | 1.7373 | 0.0000 | 10,044.74 |
| 2016 | 33.8068 | 90.8243 | 70.3466 | 0.1037 | 1.8274 | 5.4755 | 6.8251 | 0.4898 | 5.1502 | 5.5107 | 0.0000 | 10,247.83 | 10,247.83 | 2.2504 | 0.0000 | 10,295.09 |
| 2017 | 5.8469 | 42.9642 | 33.3791 | 0.0526 | 1.0590 | 2.1163 | 3.1753 | 0.2834 | 1.9481 | 2.2316 | 0.0000 | 5,108.055 | 5,108.055 | 1.1952 | 0.0000 | 5,133.154 |
| Total | 52.3175 | 216.3059 | 165.6440 | 0.2543 | 31.8477 | 12.6303 | 42.9665 | 7.9304 | 11.8932 | 18.6393 | 0.0000 | 25,364.15 | 25,364.15 | 5.1829 | 0.0000 | 25,472.99 |

| Percent Reduction | 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 |
|-------------------|---------------|---------------|---------------|---------------|------------------|---------------|------------------|------------------|---------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 0.0372 | 0.0835 | 0.0748 | 0.0629 | -196.4572 | 0.0906 | -109.6970 | -257.8020 | 0.0906 | -42.9649 | 0.0000 | 0.0674 | 0.0674 | 0.0889 | 0.0000 | 0.0675 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|---|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 5/15/2015 | 6/15/2015 | 5 | 22 | |
| 2 | Excavation & De-watering | Grading | 6/16/2015 | 8/15/2015 | 5 | 44 | |
| 3 | Infrastructure/Foundations | Building Construction | 8/16/2015 | 2/15/2016 | 5 | 131 | |
| 4 | Vertical Construction | Building Construction | 8/16/2015 | 11/15/2016 | 5 | 327 | |
| 5 | Reconfigure Mobile Home Park | Paving | 5/16/2016 | 11/15/2016 | 5 | 132 | |
| 6 | Architectural Coating | Architectural Coating | 5/16/2016 | 11/15/2016 | 5 | 132 | |
| 7 | Bayside Dr Roadway Improvements & Trail Final Landscaping | Paving | 7/16/2016 | 10/15/2016 | 5 | 65 | |
| 8 | | Building Construction | 11/16/2016 | 2/15/2017 | 5 | 66 | |
| 9 | Paving | Paving | 1/16/2017 | 2/15/2017 | 5 | 23 | |

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|--------------------------|------------------------------|--------|-------------|-------------|-------------|
| Demolition | Aerial Lifts | 1 | 8.00 | 62 | 0.31 |
| Demolition | Concrete/Industrial Saws | 2 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 0 | 8.00 | 162 | 0.38 |
| Demolition | Other Construction Equipment | 1 | 8.00 | 171 | 0.42 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Excavation & De-watering | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Excavation & De-watering | Bore/Drill Rigs | 1 | 8.00 | 205 | 0.50 |
| Excavation & De-watering | Excavators | 2 | 8.00 | 162 | 0.38 |
| Excavation & De-watering | Graders | 2 | 8.00 | 174 | 0.41 |
| Excavation & De-watering | Other Construction Equipment | 1 | 8.00 | 171 | 0.42 |
| Excavation & De-watering | Pumps | 1 | 8.00 | 84 | 0.74 |
| Excavation & De-watering | Rubber Tired Dozers | 0 | 8.00 | 255 | 0.40 |
| Excavation & De-watering | Rubber Tired Loaders | 1 | 8.00 | 199 | 0.36 |

| | | | | | |
|---|------------------------------|---|------|-----|------|
| Excavation & De-watering | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Infrastructure/Foundations | Air Compressors | 2 | 8.00 | 78 | 0.48 |
| Infrastructure/Foundations | Cement and Mortar Mixers | 2 | 8.00 | 9 | 0.56 |
| Infrastructure/Foundations | Cranes | 0 | 7.00 | 226 | 0.29 |
| Infrastructure/Foundations | Forklifts | 0 | 8.00 | 89 | 0.20 |
| Infrastructure/Foundations | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Infrastructure/Foundations | Other Construction Equipment | 1 | 8.00 | 171 | 0.42 |
| Infrastructure/Foundations | Pumps | 1 | 8.00 | 84 | 0.74 |
| Infrastructure/Foundations | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Infrastructure/Foundations | Welders | 0 | 8.00 | 46 | 0.45 |
| Vertical Construction | Aerial Lifts | 2 | 8.00 | 62 | 0.31 |
| Vertical Construction | Air Compressors | 2 | 8.00 | 78 | 0.48 |
| Vertical Construction | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Vertical Construction | Cranes | 1 | 4.00 | 226 | 0.29 |
| Vertical Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Vertical Construction | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Vertical Construction | Other Construction Equipment | 2 | 8.00 | 171 | 0.42 |
| Vertical Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Vertical Construction | Welders | 0 | 8.00 | 46 | 0.45 |
| Reconfigure Mobile Home Park | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Reconfigure Mobile Home Park | Pavers | 1 | 8.00 | 125 | 0.42 |
| Reconfigure Mobile Home Park | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Reconfigure Mobile Home Park | Rollers | 1 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Bayside Dr Roadway Improvements & Trail | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Bayside Dr Roadway Improvements & Trail | Pavers | 1 | 8.00 | 125 | 0.42 |
| Bayside Dr Roadway Improvements & Trail | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Bayside Dr Roadway Improvements & Trail | Rollers | 1 | 8.00 | 80 | 0.38 |
| Bayside Dr Roadway Improvements & Trail | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Bayside Dr Roadway Improvements & Trail | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

| | | | | | |
|-------------------|---------------------------|---|------|-----|------|
| Final Landscaping | Cranes | 0 | 7.00 | 226 | 0.29 |
| Final Landscaping | Crawler Tractors | 1 | 8.00 | 208 | 0.43 |
| Final Landscaping | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Final Landscaping | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Final Landscaping | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Final Landscaping | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Final Landscaping | Welders | 0 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 125 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 130 | 0.36 |
| Paving | Rollers | 1 | 8.00 | 80 | 0.38 |

Trips and VMT

| 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 |
|---|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 7 | 18.00 | 0.00 | 720.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Excavation & De-Material | 11 | 28.00 | 0.00 | 2,000.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Infrastructure/Foundation | 8 | 70.00 | 21.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Vertical Construction | 12 | 70.00 | 21.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Reconfigure Mobile Home Park | 4 | 10.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 14.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Bayside Dr Roadway Improvements & Trail | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Final Landscaping | 4 | 70.00 | 21.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

| Category | 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 |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 7.0850 | 0.0000 | 7.0850 | 1.0727 | 0.0000 | 1.0727 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.1888 | 40.1875 | 28.8089 | 0.0354 | | 2.4464 | 2.4464 | | 2.3128 | 2.3128 | | 3.592.746 | 3.592.746 | 0.8459 | | 3,610.5108 |
| Total | 4.1888 | 40.1875 | 28.8089 | 0.0354 | 7.0850 | 2.4464 | 9.5314 | 1.0727 | 2.3128 | 3.3855 | | 3,592.746 | 3,592.746 | 0.8459 | | 3,610.5108 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Hauling | 1.5113 | 10.5482 | 7.7833 | 0.0241 | 0.5702 | 0.1780 | 0.7482 | 0.1561 | 0.1637 | 0.3199 | | 2,453.842 | 2,453.842 | 0.0195 | | 2,454.2521 |
| 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 |
| Worker | 0.4625 | 0.1144 | 1.1945 | 2.3900e-003 | 0.2012 | 1.7700e-003 | 0.2030 | 0.0534 | 1.6200e-003 | 0.0550 | | 208.0190 | 208.0190 | 0.0119 | | 208.2697 |
| Total | 1.9738 | 10.6626 | 8.9778 | 0.0265 | 0.7714 | 0.1798 | 0.9511 | 0.2095 | 0.1654 | 0.3748 | | 2,661.861 | 2,661.861 | 0.0314 | | 2,662.5218 |

Mitigated Construction On-Site

| Category | 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 |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------|------------------|---------------|-----|------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 3.1883 | 0.0000 | 3.1883 | 0.4827 | 0.0000 | 0.4827 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.1849 | 40.1506 | 28.7825 | 0.0354 | 2.4442 | 2.4442 | 2.4442 | 2.3106 | 2.3106 | 2.3106 | 0.0000 | 3,589.449 | 3,589.449 | 0.8452 | | 3,607.198 |
| Total | 4.1849 | 40.1506 | 28.7825 | 0.0354 | 3.1883 | 2.4442 | 5.6324 | 0.4827 | 2.3106 | 2.7934 | 0.0000 | 3,589.449 | 3,589.449 | 0.8452 | | 3,607.198 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|------------------|---------------|-----|------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Hauling | 1.5113 | 10.5482 | 7.7833 | 0.0241 | 9.6567 | 0.1780 | 9.8347 | 2.3865 | 0.1637 | 2.5502 | | | 2,453.842 | 0.0195 | | 2,454.252 |
| 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 |
| Worker | 0.4625 | 0.1144 | 1.1945 | 2.3900e-003 | 0.2012 | 1.7700e-003 | 0.2030 | 0.0534 | 1.6200e-003 | 0.0550 | | | 208.0190 | 0.0119 | | 208.2697 |
| Total | 1.9738 | 10.6626 | 8.9778 | 0.0265 | 9.8579 | 0.1798 | 10.0376 | 2.4398 | 0.1654 | 2.6052 | | | 2,661.861 | 0.0314 | | 2,662.521 |

3.3 Excavation & De-watering - 2015
Unmitigated Construction On-Site

Acres of Grading: 0

| Category | 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 |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 4.4781 | 0.0000 | 4.4781 | 1.1434 | 0.0000 | 1.1434 | | | 0.0000 | | | 0.0000 |
| Off-Road | 6.5677 | 67.7513 | 36.4066 | 0.0609 | 3.7583 | 3.7583 | 3.7583 | 3.5131 | 3.5131 | 3.5131 | | 6,282.323 | 6,282.323 | 1.6932 | | 6,317.881 |
| Total | 6.5677 | 67.7513 | 36.4066 | 0.0609 | 4.4781 | 3.7583 | 8.2364 | 1.1434 | 3.5131 | 4.6565 | | 6,282.323 | 6,282.323 | 1.6932 | | 6,317.881 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Hauling | 2.0991 | 14.6502 | 10.8101 | 0.0335 | 0.7919 | 0.2472 | 1.0391 | 0.2168 | 0.2274 | 0.4442 | | 3,408.114 | 3,408.114 | 0.0271 | | 3,408.683 |
| 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 |
| Worker | 0.7195 | 0.1780 | 1.8581 | 3.7200e-003 | 0.3130 | 2.7500e-003 | 0.3157 | 0.0830 | 2.5200e-003 | 0.0855 | | 323.5851 | 323.5851 | 0.0186 | | 323.9751 |
| Total | 2.8185 | 14.8282 | 12.6682 | 0.0372 | 1.1048 | 0.2500 | 1.3548 | 0.2998 | 0.2299 | 0.5298 | | 3,731.699 | 3,731.699 | 0.0457 | | 3,732.658 |

Mitigated Construction On-Site

| Category | 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 |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 2.0152 | 0.0000 | 2.0152 | 0.5145 | 0.0000 | 0.5145 | | | 0.0000 | | | 0.0000 |
| Off-Road | 6.5617 | 67.6891 | 36.3732 | 0.0608 | | 3.7548 | 3.7548 | 3.5099 | 3.5099 | 3.5099 | 0.0000 | 6,276.5598 | 6,276.5598 | 1.6917 | | 6,312.0853 |
| Total | 6.5617 | 67.6891 | 36.3732 | 0.0608 | 2.0152 | 3.7548 | 5.7700 | 0.5145 | 3.5099 | 4.0244 | 0.0000 | 6,276.5598 | 6,276.5598 | 1.6917 | | 6,312.0853 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Hauling | 2.0991 | 14.6502 | 10.8101 | 0.0335 | 26.6332 | 0.2472 | 26.8804 | 6.5597 | 0.2274 | 6.7871 | | | 3,408.1147 | 0.0271 | | 3,408.6835 |
| 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 |
| Worker | 0.7195 | 0.1780 | 1.8581 | 3.7200e-003 | 0.3130 | 2.7500e-003 | 0.3157 | 0.0830 | 2.5200e-003 | 0.0855 | | | 323.5851 | 0.0186 | | 323.9751 |
| Total | 2.8185 | 14.8282 | 12.6682 | 0.0372 | 26.9461 | 0.2500 | 27.1961 | 6.6427 | 0.2299 | 6.8726 | | | 3,731.6998 | 0.0457 | | 3,732.6586 |

3.4 Infrastructure/Foundations - 2015

Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 3.3730 | 27.6599 | 18.7193 | 0.0283 | 1.9692 | 1.9692 | 1.9692 | 1.8932 | 1.8932 | 1.8932 | 2,774.7048 | 2,774.7048 | 2,774.7048 | 0.5632 | | 2,786.5326 |
| Total | 3.3730 | 27.6599 | 18.7193 | 0.0283 | 1.9692 | 1.9692 | 1.9692 | 1.8932 | 1.8932 | 1.8932 | 2,774.7048 | 2,774.7048 | 2,774.7048 | 0.5632 | | 2,786.5326 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3948 | 2.1069 | 2.6960 | 4.5400e-003 | 0.1312 | 0.0864 | 0.1676 | 0.0374 | 0.0334 | 0.0708 | 459.0955 | 459.0955 | 459.0955 | 3.7200e-003 | | 459.1736 |
| Worker | 1.7987 | 0.4450 | 4.6453 | 9.3000e-003 | 0.7824 | 6.8900e-003 | 0.7893 | 0.2075 | 6.3100e-003 | 0.2138 | 808.9626 | 808.9626 | 808.9626 | 0.0464 | | 809.9376 |
| Total | 2.1935 | 2.5518 | 7.3413 | 0.0138 | 0.9136 | 0.0432 | 0.9569 | 0.2449 | 0.0397 | 0.2846 | 1,268.0581 | 1,268.0581 | 1,268.0581 | 0.0502 | | 1,269.1112 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 3.3699 | 27.6346 | 18.7021 | 0.0283 | 1.9674 | 1.9674 | 1.9674 | 1.8914 | 1.8914 | 1.8914 | 0.0000 | 2,772.159 | 2,772.159 | 0.5627 | | 2,783.976 |
| Total | 3.3699 | 27.6346 | 18.7021 | 0.0283 | 1.9674 | 1.9674 | 1.9674 | 1.8914 | 1.8914 | 1.8914 | 0.0000 | 2,772.159 | 2,772.159 | 0.5627 | | 2,783.976 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3948 | 2.1069 | 2.6960 | 4.5400e-003 | 0.1312 | 0.0364 | 0.1676 | 0.0374 | 0.0334 | 0.0708 | 459.0955 | 459.0955 | 459.0955 | 3.7200e-003 | | 459.1736 |
| Worker | 1.7987 | 0.4450 | 4.6453 | 9.3000e-003 | 0.7824 | 6.8900e-003 | 0.7893 | 0.2075 | 6.3100e-003 | 0.2138 | 808.9626 | 808.9626 | 808.9626 | 0.0464 | | 809.9376 |
| Total | 2.1935 | 2.5518 | 7.3413 | 0.0138 | 0.9136 | 0.0432 | 0.9569 | 0.2449 | 0.0397 | 0.2846 | 1,268.058 | 1,268.058 | 1,268.058 | 0.0502 | | 1,269.111 |

3.4 Infrastructure/Foundations - 2016

Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 3.1145 | 25.8528 | 18.5800 | 0.0283 | 1.7991 | 1.7991 | 1.7991 | 1.7280 | 1.7280 | 1.7280 | 2,760.315 | 3 | 2,760.315 | 0.5471 | | 2,771.804 |
| Total | 3.1145 | 25.8528 | 18.5800 | 0.0283 | 1.7991 | 1.7991 | 1.7991 | 1.7280 | 1.7280 | 1.7280 | 2,760.315 | 3 | 2,760.315 | 0.5471 | | 2,771.804 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3439 | 1.8595 | 2.5108 | 4.5300e-003 | 0.1313 | 0.0302 | 0.1614 | 0.0374 | 0.0277 | 0.0651 | 454.0209 | 454.0209 | 454.0209 | 3.3700e-003 | | 454.0915 |
| Worker | 1.6776 | 0.4013 | 4.1924 | 9.2900e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | 781.0007 | 781.0007 | 781.0007 | 0.0427 | | 781.8978 |
| Total | 2.0215 | 2.2608 | 6.7032 | 0.0138 | 0.9137 | 0.0367 | 0.9504 | 0.2449 | 0.0338 | 0.2786 | 1,235.021 | 6 | 1,235.021 | 0.0461 | | 1,235.989 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 3.1116 | 25.8291 | 18.5629 | 0.0283 | 1.7974 | 1.7974 | 1.7974 | 1.7264 | 1.7264 | 1.7264 | 0.0000 | 2,757.7829 | 2,757.7829 | 0.5466 | | 2,769.2612 |
| Total | 3.1116 | 25.8291 | 18.5629 | 0.0283 | 1.7974 | 1.7974 | 1.7974 | 1.7264 | 1.7264 | 1.7264 | 0.0000 | 2,757.7829 | 2,757.7829 | 0.5466 | | 2,769.2612 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3439 | 1.8595 | 2.5108 | 4.5300e-003 | 0.1313 | 0.0302 | 0.1614 | 0.0374 | 0.0277 | 0.0651 | | 454.0209 | 454.0209 | 3.3700e-003 | | 454.0915 |
| Worker | 1.6776 | 0.4013 | 4.1924 | 9.2900e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | | 781.0007 | 781.0007 | 0.0427 | | 781.8978 |
| Total | 2.0215 | 2.2608 | 6.7032 | 0.0138 | 0.9137 | 0.0367 | 0.9504 | 0.2449 | 0.0338 | 0.2786 | | 1,235.0216 | 1,235.0216 | 0.0461 | | 1,235.9893 |

3.5 Vertical Construction - 2015
Unmitigated Construction On-Site

Acres of Paving: 0

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 4.9115 | 45.1574 | 28.5598 | 0.0419 | 2.9875 | 2.9875 | 2.9875 | 2.8266 | 2.8266 | 2.8266 | 4,252.0953 | 4,252.0953 | 4,252.0953 | 1.0298 | | 4,273.7205 |
| Total | 4.9115 | 45.1574 | 28.5598 | 0.0419 | 2.9875 | 2.9875 | 2.9875 | 2.8266 | 2.8266 | 2.8266 | 4,252.0953 | 4,252.0953 | 4,252.0953 | 1.0298 | | 4,273.7205 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3948 | 2.1069 | 2.6960 | 4.5400e-003 | 0.1312 | 0.0364 | 0.1676 | 0.0374 | 0.0334 | 0.0708 | | | 459.0955 | 3.7200e-003 | | 459.1736 |
| Worker | 1.7987 | 0.4450 | 4.6453 | 9.3000e-003 | 0.7824 | 6.8900e-003 | 0.7893 | 0.2075 | 6.3100e-003 | 0.2138 | | | 808.9626 | 0.0464 | | 809.9376 |
| Total | 2.1935 | 2.5518 | 7.3413 | 0.0138 | 0.9136 | 0.0432 | 0.9569 | 0.2449 | 0.0397 | 0.2846 | | | 1,268.0581 | 0.0502 | | 1,269.1112 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 4.9070 | 45.1159 | 28.5336 | 0.0418 | | 2.9847 | 2.9847 | | 2.8240 | 2.8240 | 0.0000 | 4,248.194 | 4,248.194 | 1.0288 | | 4,269.799 |
| Total | 4.9070 | 45.1159 | 28.5336 | 0.0418 | | 2.9847 | 2.9847 | | 2.8240 | 2.8240 | 0.0000 | 4,248.194 | 4,248.194 | 1.0288 | | 4,269.799 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3948 | 2.1069 | 2.6960 | 4.5400e-003 | 0.1312 | 0.0364 | 0.1676 | 0.0374 | 0.0334 | 0.0708 | | 459.0955 | 459.0955 | 3.7200e-003 | | 459.1736 |
| Worker | 1.7987 | 0.4450 | 4.6453 | 9.3000e-003 | 0.7824 | 6.8900e-003 | 0.7893 | 0.2075 | 6.3100e-003 | 0.2138 | | 808.9626 | 808.9626 | 0.0464 | | 809.9376 |
| Total | 2.1935 | 2.5518 | 7.3413 | 0.0138 | 0.9136 | 0.0432 | 0.9569 | 0.2449 | 0.0397 | 0.2846 | | 1,268.058 | 1,268.058 | 0.0502 | | 1,269.111 |

3.5 Vertical Construction - 2016
Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| Off-Road | 4.5650 | 42.2143 | 28.3167 | 0.0419 | 2.7440 | 2.7440 | 2.7440 | 2.5942 | 2.5942 | 2.5942 | 4,221.0339 | 4,221.0339 | 4,221.0339 | 1.0139 | | 4,242.3259 |
| Total | 4.5650 | 42.2143 | 28.3167 | 0.0419 | 2.7440 | 2.7440 | 2.7440 | 2.5942 | 2.5942 | 2.5942 | 4,221.0339 | 4,221.0339 | 4,221.0339 | 1.0139 | | 4,242.3259 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| 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 |
| Vendor | 0.3439 | 1.8595 | 2.5108 | 4.5300e-003 | 0.1313 | 0.0302 | 0.1614 | 0.0374 | 0.0277 | 0.0651 | | | 454.0209 | 3.3700e-003 | | 454.0915 |
| Worker | 1.6776 | 0.4013 | 4.1924 | 9.2900e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | | | 781.0007 | 0.0427 | | 781.8978 |
| Total | 2.0215 | 2.2608 | 6.7032 | 0.0138 | 0.9137 | 0.0367 | 0.9504 | 0.2449 | 0.0338 | 0.2786 | 1,235.0216 | 1,235.0216 | 1,235.0216 | 0.0461 | | 1,235.9893 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 4.5608 | 42.1755 | 28.2907 | 0.0418 | 2.7415 | 2.7415 | 2.7415 | 2.5918 | 2.5918 | 2.5918 | 0.0000 | 4,217.1614 | 4,217.1614 | 1.0130 | | 4,238.4338 |
| Total | 4.5608 | 42.1755 | 28.2907 | 0.0418 | 2.7415 | 2.7415 | 2.7415 | 2.5918 | 2.5918 | 2.5918 | 0.0000 | 4,217.1614 | 4,217.1614 | 1.0130 | | 4,238.4338 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3439 | 1.8595 | 2.5108 | 4.5300e-003 | 0.1313 | 0.0302 | 0.1614 | 0.0374 | 0.0277 | 0.0651 | 454.0209 | 454.0209 | 454.0209 | 3.3700e-003 | | 454.0915 |
| Worker | 1.6776 | 0.4013 | 4.1924 | 9.2900e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | 781.0007 | 781.0007 | 781.0007 | 0.0427 | | 781.8978 |
| Total | 2.0215 | 2.2608 | 6.7032 | 0.0138 | 0.9137 | 0.0367 | 0.9504 | 0.2449 | 0.0338 | 0.2786 | 1,235.0216 | 1,235.0216 | 1,235.0216 | 0.0461 | | 1,235.9893 |

3.6 Reconfigure Mobile Home Park - 2016

Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| | | | | | lb/day | | | | | | | | lb/day | | | |
| Off-Road | 1.5362 | 14.3559 | 9.9207 | 0.0151 | | 0.8926 | 0.8926 | | 0.8422 | 0.8422 | | 1,533.4524 | 1,533.4524 | 0.3936 | | 1,541.7179 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.5362 | 14.3559 | 9.9207 | 0.0151 | | 0.8926 | 0.8926 | | 0.8422 | 0.8422 | | 1,533.4524 | 1,533.4524 | 0.3936 | | 1,541.7179 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | | | | | lb/day | | | | | | | | lb/day | | | |
| 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 |
| 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 |
| Worker | 0.2397 | 0.0573 | 0.5989 | 1.3300e-003 | 0.1118 | 9.3000e-004 | 0.1127 | 0.0296 | 8.6000e-004 | 0.0305 | | 111.5715 | 111.5715 | 6.1000e-003 | | 111.6997 |
| Total | 0.2397 | 0.0573 | 0.5989 | 1.3300e-003 | 0.1118 | 9.3000e-004 | 0.1127 | 0.0296 | 8.6000e-004 | 0.0305 | | 111.5715 | 111.5715 | 6.1000e-003 | | 111.6997 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 1.5348 | 14.3428 | 9.9116 | 0.0151 | 0.8918 | 0.8918 | 0.8918 | 0.8414 | 0.8414 | 0.8414 | 0.0000 | 1,532.0456 | 1,532.0456 | 0.3932 | | 1,540.3034 |
| Paving | 0.0000 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.5348 | 14.3428 | 9.9116 | 0.0151 | 0.8918 | 0.8918 | 0.8918 | 0.8414 | 0.8414 | 0.8414 | 0.0000 | 1,532.0456 | 1,532.0456 | 0.3932 | | 1,540.3034 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.2397 | 0.0573 | 0.5989 | 1.3300e-003 | 0.1118 | 9.3000e-004 | 0.1127 | 0.0296 | 8.6000e-004 | 0.0305 | | 111.5715 | 111.5715 | 6.1000e-003 | | 111.6997 |
| Total | 0.2397 | 0.0573 | 0.5989 | 1.3300e-003 | 0.1118 | 9.3000e-004 | 0.1127 | 0.0296 | 8.6000e-004 | 0.0305 | | 111.5715 | 111.5715 | 6.1000e-003 | | 111.6997 |

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

Residential Indoor: 173,429; Residential Outdoor: 57,810; Non-Residential Indoor: 141,051; Non-Residential Outdoor: 47,017

| Category | 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 |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| lb/day | | | | | | | | | | | | | | | | |
| Archit. Coating | 21.5842 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4913 | 3.1630 | 2.5119 | 3.9600e-003 | | 0.2622 | 0.2622 | | 0.2622 | 0.2622 | | 375.2641 | 375.2641 | 0.0442 | | 376.1932 |
| Total | 22.0754 | 3.1630 | 2.5119 | 3.9600e-003 | | 0.2622 | 0.2622 | | 0.2622 | 0.2622 | | 375.2641 | 375.2641 | 0.0442 | | 376.1932 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| lb/day | | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.3355 | 0.0803 | 0.8385 | 1.8600e-003 | 0.1565 | 1.3100e-003 | 0.1578 | 0.0415 | 1.2000e-003 | 0.0427 | | 156.2001 | 156.2001 | 8.5400e-003 | | 156.3796 |
| Total | 0.3355 | 0.0803 | 0.8385 | 1.8600e-003 | 0.1565 | 1.3100e-003 | 0.1578 | 0.0415 | 1.2000e-003 | 0.0427 | | 156.2001 | 156.2001 | 8.5400e-003 | | 156.3796 |

Mitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NI Bio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| Archit. Coating | 21.5842 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4908 | 3.1601 | 2.5096 | 3.9600e-003 | | 0.2619 | 0.2619 | | 0.2619 | 0.2619 | 0.0000 | 374.9198 | 374.9198 | 0.0442 | | 375.8480 |
| Total | 22.0750 | 3.1601 | 2.5096 | 3.9600e-003 | | 0.2619 | 0.2619 | | 0.2619 | 0.2619 | 0.0000 | 374.9198 | 374.9198 | 0.0442 | | 375.8480 |

Mitigated Construction Off-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NI Bio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.3355 | 0.0803 | 0.8385 | 1.8600e-003 | 0.1565 | 1.3100e-003 | 0.1578 | 0.0415 | 1.2000e-003 | 0.0427 | | 156.2001 | 156.2001 | 8.5400e-003 | | 156.3796 |
| Total | 0.3355 | 0.0803 | 0.8385 | 1.8600e-003 | 0.1565 | 1.3100e-003 | 0.1578 | 0.0415 | 1.2000e-003 | 0.0427 | | 156.2001 | 156.2001 | 8.5400e-003 | | 156.3796 |

3.8 Bayside Dr Roadway Improvements & Trail - 2016

Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 2.6826 | 28.6879 | 20.6147 | 0.0239 | | 1.5414 | 1.5414 | | 1.4192 | 1.4192 | | 2,455.814 | 2,455.814 | 0.7308 | | 2,471.160 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 1 | 1 | 0.0000 | | 0.0000 |
| Total | 2.6826 | 28.6879 | 20.6147 | 0.0239 | | 1.5414 | 1.5414 | | 1.4192 | 1.4192 | | 2,455.814 | 2,455.814 | 0.7308 | | 2,471.160 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.3595 | 0.0860 | 0.8984 | 1.9900e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 167.3573 | 167.3573 | 9.1500e-003 | | 167.5495 |
| Total | 0.3595 | 0.0860 | 0.8984 | 1.9900e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 167.3573 | 167.3573 | 9.1500e-003 | | 167.5495 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 2.6801 | 28.6616 | 20.5958 | 0.0238 | 1.5399 | 1.5399 | 1.5399 | 1.4179 | 1.4179 | 1.4179 | 0.0000 | 2,453.5610 | 2,453.5610 | 0.7301 | | 2,468.8931 |
| Paving | 0.0000 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 2.6801 | 28.6616 | 20.5958 | 0.0238 | 1.5399 | 1.5399 | 1.5399 | 1.4179 | 1.4179 | 1.4179 | 0.0000 | 2,453.5610 | 2,453.5610 | 0.7301 | | 2,468.8931 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.3595 | 0.0860 | 0.8984 | 1.9900e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 167.3573 | 167.3573 | 9.1500e-003 | | 167.5495 |
| Total | 0.3595 | 0.0860 | 0.8984 | 1.9900e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 167.3573 | 167.3573 | 9.1500e-003 | | 167.5495 |

3.9 Final Landscaping - 2016
Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 2.5136 | 28.6186 | 17.0046 | 0.0212 | 1.4272 | 1.4272 | 1.4272 | 1.3130 | 1.3130 | 1.3130 | 2,206.159 | 3 | 2,206.159 | 0.6655 | | 2,220.133 |
| Total | 2.5136 | 28.6186 | 17.0046 | 0.0212 | 1.4272 | 1.4272 | 1.4272 | 1.3130 | 1.3130 | 1.3130 | 2,206.159 | 3 | 2,206.159 | 0.6655 | | 2,220.133 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3439 | 1.8595 | 2.5108 | 4.5300e-003 | 0.1313 | 0.0302 | 0.1614 | 0.0374 | 0.0277 | 0.0651 | 454.0209 | 454.0209 | 454.0209 | 3.3700e-003 | | 454.0915 |
| Worker | 1.6776 | 0.4013 | 4.1924 | 9.2900e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | 781.0007 | 781.0007 | 781.0007 | 0.0427 | | 781.8978 |
| Total | 2.0215 | 2.2608 | 6.7032 | 0.0138 | 0.9137 | 0.0367 | 0.9504 | 0.2449 | 0.0338 | 0.2786 | 1,235.021 | 6 | 1,235.021 | 0.0461 | | 1,235.989 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 2.5113 | 28.5924 | 16.9890 | 0.0212 | 1.4259 | 1.4259 | 1.4259 | 1.3118 | 1.3118 | 1.3118 | 0.0000 | 2,204.1352 | 2,204.1352 | 0.6649 | | 2,218.0970 |
| Total | 2.5113 | 28.5924 | 16.9890 | 0.0212 | 1.4259 | 1.4259 | 1.4259 | 1.3118 | 1.3118 | 1.3118 | 0.0000 | 2,204.1352 | 2,204.1352 | 0.6649 | | 2,218.0970 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3439 | 1.8595 | 2.5108 | 4.5300e-003 | 0.1313 | 0.0302 | 0.1614 | 0.0374 | 0.0277 | 0.0651 | | 454.0209 | 454.0209 | 3.3700e-003 | | 454.0915 |
| Worker | 1.6776 | 0.4013 | 4.1924 | 9.2900e-003 | 0.7824 | 6.5400e-003 | 0.7890 | 0.2075 | 6.0100e-003 | 0.2135 | | 781.0007 | 781.0007 | 0.0427 | | 781.8978 |
| Total | 2.0215 | 2.2608 | 6.7032 | 0.0138 | 0.9137 | 0.0367 | 0.9504 | 0.2449 | 0.0338 | 0.2786 | | 1,235.0216 | 1,235.0216 | 0.0461 | | 1,235.9893 |

3.9 Final Landscaping - 2017
Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|------------------|
| Off-Road | 2.3956 | 27.1486 | 16.3311 | 0.0212 | 1.3393 | 1.3393 | 1.3393 | 1.2321 | 1.2321 | 1.2321 | 2,172.989 | 2 | 2,172.989 | 0.6658 | | 2,186.971 |
| Total | 2.3956 | 27.1486 | 16.3311 | 0.0212 | 1.3393 | 1.3393 | 1.3393 | 1.2321 | 1.2321 | 1.2321 | 2,172.989 | 2 | 2,172.989 | 0.6658 | | 2,186.971 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|------------------|---------------|-----|------------------|
| 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 |
| Vendor | 0.3081 | 1.6910 | 2.3835 | 4.5300e-003 | 0.1313 | 0.0269 | 0.1582 | 0.0374 | 0.0247 | 0.0621 | | | 446.6577 | 3.2600e-003 | | 446.7261 |
| Worker | 1.5615 | 0.3622 | 3.7786 | 9.2900e-003 | 0.7824 | 6.2900e-003 | 0.7887 | 0.2075 | 5.8000e-003 | 0.2133 | | | 751.0026 | 0.0394 | | 751.8304 |
| Total | 1.8695 | 2.0532 | 6.1621 | 0.0138 | 0.9137 | 0.0332 | 0.9469 | 0.2449 | 0.0305 | 0.2754 | | 3 | 1,197.660 | 0.0427 | | 1,198.556 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 2.3934 | 27.1237 | 16.3161 | 0.0212 | 1.3381 | 1.3381 | 1.3381 | 1.2310 | 1.2310 | 1.2310 | 0.0000 | 2,170.9956 | 2,170.9956 | 0.6652 | | 2,184.9645 |
| Total | 2.3934 | 27.1237 | 16.3161 | 0.0212 | 1.3381 | 1.3381 | 1.3381 | 1.2310 | 1.2310 | 1.2310 | 0.0000 | 2,170.9956 | 2,170.9956 | 0.6652 | | 2,184.9645 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| Vendor | 0.3081 | 1.6910 | 2.3835 | 4.5300e-003 | 0.1313 | 0.0269 | 0.1582 | 0.0374 | 0.0247 | 0.0621 | 446.6577 | 446.6577 | 446.6577 | 3.2600e-003 | | 446.7261 |
| Worker | 1.5615 | 0.3622 | 3.7786 | 9.2900e-003 | 0.7824 | 6.2900e-003 | 0.7887 | 0.2075 | 5.8000e-003 | 0.2133 | 751.0026 | 751.0026 | 751.0026 | 0.0394 | | 751.8304 |
| Total | 1.8695 | 2.0532 | 6.1621 | 0.0138 | 0.9137 | 0.0332 | 0.9469 | 0.2449 | 0.0305 | 0.2754 | 1,197.6603 | 1,197.6603 | 1,197.6603 | 0.0427 | | 1,198.5565 |

3.10 Paving - 2017

Unmitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| | | | | | lb/day | | | | | | | | lb/day | | | |
| Off-Road | 1.2951 | 13.7327 | 10.2085 | 0.0159 | | 0.7445 | 0.7445 | | 0.6861 | 0.6861 | | 1,601.3970 | 1,601.3970 | 0.4804 | | 1,611.4861 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.2951 | 13.7327 | 10.2085 | 0.0159 | | 0.7445 | 0.7445 | | 0.6861 | 0.6861 | | 1,601.3970 | 1,601.3970 | 0.4804 | | 1,611.4861 |

Unmitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | | | | | lb/day | | | | | | | | lb/day | | | |
| 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 |
| 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 |
| Worker | 0.2900 | 0.0673 | 0.7017 | 1.7200e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 139.4719 | 139.4719 | 7.3200e-003 | | 139.6256 |
| Total | 0.2900 | 0.0673 | 0.7017 | 1.7200e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 139.4719 | 139.4719 | 7.3200e-003 | | 139.6256 |

Mitigated Construction On-Site

| Category | 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Off-Road | 1.2939 | 13.7201 | 10.1992 | 0.0159 | | 0.7438 | 0.7438 | | 0.6855 | 0.6855 | 0.0000 | 1,599.9278 | 1,599.9278 | 0.4800 | | 1,610.0076 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.2939 | 13.7201 | 10.1992 | 0.0159 | | 0.7438 | 0.7438 | | 0.6855 | 0.6855 | 0.0000 | 1,599.9278 | 1,599.9278 | 0.4800 | | 1,610.0076 |

Mitigated Construction Off-Site

| Category | 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | lb/day | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| Worker | 0.2900 | 0.0673 | 0.7017 | 1.7200e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 139.4719 | 139.4719 | 7.3200e-003 | | 139.6256 |
| Total | 0.2900 | 0.0673 | 0.7017 | 1.7200e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 139.4719 | 139.4719 | 7.3200e-003 | | 139.6256 |

Newport Back Bay Landing - Construction South Coast AQMD Air District, Mitigation Report

Construction Mitigation Summary

| Phase | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|------|------|------|------|--------------|---------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | | | | | | | | | | | | |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Bayside Dr Roadway Improvements & Trail | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Demolition | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Excavation & De-watering | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Final Landscaping | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Infrastructure/Foundations | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Reconfigure Mobile Home Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vertical Construction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

OFFROAD Equipment Mitigation

| Equipment Type | Fuel Type | Tier | Number Mitigated | Total Number of Equipment | DPF | Oxidation Catalyst |
|------------------------------|-----------|-----------|------------------|---------------------------|-----------|--------------------|
| Aerial Lifts | Diesel | No Change | 0 | 3 | No Change | 0.00 |
| Air Compressors | Diesel | No Change | 0 | 7 | No Change | 0.00 |
| Bore/Drill Rigs | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Cement and Mortar Mixers | Diesel | No Change | 0 | 4 | No Change | 0.00 |
| Concrete/Industrial Saws | Diesel | No Change | 0 | 3 | No Change | 0.00 |
| Cranes | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Crawler Tractors | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Excavators | Diesel | No Change | 0 | 2 | No Change | 0.00 |
| Forklifts | Diesel | No Change | 0 | 3 | No Change | 0.00 |
| Generator Sets | Diesel | No Change | 0 | 0 | No Change | 0.00 |
| Graders | Diesel | No Change | 0 | 2 | No Change | 0.00 |
| Other Construction Equipment | Diesel | No Change | 0 | 5 | No Change | 0.00 |

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | | | | | | | | | |
| Aerial Lifts | 1.98800E-002 | 3.26100E-001 | 3.66950E-001 | 5.60000E-004 | 1.39700E-002 | 1.28500E-002 | 0.00000E+000 | 5.27311E+001 | 5.27311E+001 | 1.58500E-002 | 0.00000E+000 | 5.30640E+001 |
| Air Compressors | 3.11480E-001 | 1.99148E+000 | 1.54067E+000 | 2.42000E-003 | 1.67360E-001 | 1.67360E-001 | 0.00000E+000 | 2.08098E+002 | 2.08098E+002 | 2.54600E-002 | 0.00000E+000 | 2.08632E+002 |
| Bore/Drill Rigs | 8.47000E-003 | 1.32060E-001 | 4.68100E-002 | 1.90000E-004 | 3.95000E-003 | 3.64000E-003 | 0.00000E+000 | 1.82530E+001 | 1.82530E+001 | 5.45000E-003 | 0.00000E+000 | 1.83674E+001 |
| Cement and Mortar | 1.02900E-002 | 6.46500E-002 | 5.39000E-002 | 1.20000E-004 | 2.63000E-003 | 2.63000E-003 | 0.00000E+000 | 8.01031E+000 | 8.01031E+000 | 8.30000E-004 | 0.00000E+000 | 8.02777E+000 |
| Concrete/Industrial Saws | 1.24490E-001 | 8.82950E-001 | 7.01480E-001 | 1.16000E-003 | 6.72500E-002 | 6.72500E-002 | 0.00000E+000 | 9.96168E+001 | 9.96168E+001 | 1.00500E-002 | 0.00000E+000 | 9.98278E+001 |
| Cranes | 5.93400E-002 | 7.03510E-001 | 2.45750E-001 | 4.60000E-004 | 3.19800E-002 | 2.94200E-002 | 0.00000E+000 | 4.35620E+001 | 4.35620E+001 | 1.31000E-002 | 0.00000E+000 | 4.38371E+001 |
| Crawler Tractors | 2.28300E-002 | 3.06950E-001 | 9.21500E-002 | 2.50000E-004 | 1.17800E-002 | 1.08400E-002 | 0.00000E+000 | 2.37536E+001 | 2.37536E+001 | 7.22000E-003 | 0.00000E+000 | 2.39052E+001 |
| Excavators | 1.83100E-002 | 2.13800E-001 | 1.51140E-001 | 2.30000E-004 | 1.05500E-002 | 9.71000E-003 | 0.00000E+000 | 2.21492E+001 | 2.21492E+001 | 6.61000E-003 | 0.00000E+000 | 2.22881E+001 |
| Forklifts | 8.27500E-002 | 7.12020E-001 | 4.55170E-001 | 5.50000E-004 | 6.95800E-002 | 5.48200E-002 | 0.00000E+000 | 5.18854E+001 | 5.18854E+001 | 1.56200E-002 | 0.00000E+000 | 5.22134E+001 |
| Generator Sets | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Graders | 4.66700E-002 | 4.77610E-001 | 2.18890E-001 | 2.70000E-004 | 2.68600E-002 | 2.47100E-002 | 0.00000E+000 | 2.61964E+001 | 2.61964E+001 | 7.82000E-003 | 0.00000E+000 | 2.63608E+001 |
| Other Construction Equipment | 2.89830E-001 | 3.22664E+000 | 1.81280E+000 | 2.61000E-003 | 1.69400E-001 | 1.58500E-001 | 0.00000E+000 | 2.47233E+002 | 2.47233E+002 | 7.42500E-002 | 0.00000E+000 | 2.48793E+002 |
| Pavers | 4.36000E-002 | 4.90300E-001 | 3.13170E-001 | 5.00000E-004 | 2.43400E-002 | 2.23900E-002 | 0.00000E+000 | 4.66756E+001 | 4.66756E+001 | 1.41000E-002 | 0.00000E+000 | 4.69717E+001 |
| Paving Equipment | 3.66900E-002 | 4.24830E-001 | 3.08480E-001 | 4.90000E-004 | 2.11100E-002 | 1.94200E-002 | 0.00000E+000 | 4.57415E+001 | 4.57415E+001 | 1.38400E-002 | 0.00000E+000 | 4.60321E+001 |
| Pumps | 6.38500E-002 | 4.57550E-001 | 3.39980E-001 | 5.70000E-004 | 3.41900E-002 | 3.41900E-002 | 0.00000E+000 | 4.93969E+001 | 4.93969E+001 | 5.21000E-003 | 0.00000E+000 | 4.95062E+001 |
| Rollers | 3.67100E-002 | 3.39570E-001 | 2.20960E-001 | 2.90000E-004 | 2.49700E-002 | 2.29700E-002 | 0.00000E+000 | 2.71134E+001 | 2.71134E+001 | 6.19000E-003 | 0.00000E+000 | 2.72854E+001 |
| Rubber Tired Dozers | 9.42100E-002 | 1.05434E+000 | 7.97570E-001 | 6.80000E-004 | 4.90600E-002 | 4.51400E-002 | 0.00000E+000 | 6.39136E+001 | 6.39136E+001 | 1.93100E-002 | 0.00000E+000 | 6.43192E+001 |
| Rubber Tired Loaders | 1.12600E-002 | 1.49070E-001 | 4.10900E-002 | 1.30000E-004 | 5.09000E-003 | 4.68000E-003 | 0.00000E+000 | 1.28181E+001 | 1.28181E+001 | 3.83000E-003 | 0.00000E+000 | 1.28985E+001 |
| Tractors/Loaders/Bac | 2.05360E-001 | 1.95979E+000 | 1.42366E+000 | 1.83000E-003 | 1.51960E-001 | 1.39800E-001 | 0.00000E+000 | 1.73723E+002 | 1.73723E+002 | 5.21800E-002 | 0.00000E+000 | 1.74818E+002 |
| Welders | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | | | | | | | | | |
| Aerial Lifts | 1.00503E-003 | 1.19452E-003 | 1.19764E-003 | 0.00000E+000 | 7.15308E-004 | 1.55400E-003 | 0.00000E+000 | 1.18953E-003 | 1.18953E-003 | 1.26024E-003 | 0.00000E+000 | 1.18960E-003 |
| Air Compressors | 1.18647E-003 | 1.18866E-003 | 1.19286E-003 | 0.00000E+000 | 1.13399E-003 | 1.13399E-003 | 0.00000E+000 | 1.18961E-003 | 1.18961E-003 | 1.17693E-003 | 0.00000E+000 | 1.18958E-003 |
| Bore/Drill Rigs | 1.17925E-003 | 1.21010E-003 | 1.06701E-003 | 0.00000E+000 | 2.52525E-003 | 0.00000E+000 | 0.00000E+000 | 1.18962E-003 | 1.18962E-003 | 1.83150E-003 | 0.00000E+000 | 1.18982E-003 |
| Cement and Mortar | 1.93986E-003 | 1.23590E-003 | 1.11193E-003 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.18955E-003 | 1.18955E-003 | 0.00000E+000 | 0.00000E+000 | 1.18945E-003 |
| Concrete/Industrial Saws | 1.20347E-003 | 1.18778E-003 | 1.18181E-003 | 0.00000E+000 | 1.18818E-003 | 1.18818E-003 | 0.00000E+000 | 1.18955E-003 | 1.18955E-003 | 9.94036E-004 | 0.00000E+000 | 1.18963E-003 |

| | | | | | | | | | | | | |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Cranes | 1.17825E-003 | 1.17841E-003 | 1.21926E-003 | 0.00000E+000 | 1.24922E-003 | 1.35777E-003 | 0.00000E+000 | 1.18978E-003 | 1.18976E-003 | 7.62777E-004 | 0.00000E+000 | 1.18958E-003 |
| Crawler Tractors | 1.31234E-003 | 1.20396E-003 | 1.19228E-003 | 0.00000E+000 | 8.48176E-004 | 9.21659E-004 | 0.00000E+000 | 1.18956E-003 | 1.18956E-003 | 1.38313E-003 | 0.00000E+000 | 1.18954E-003 |
| Excavators | 1.09111E-003 | 1.16795E-003 | 1.18953E-003 | 0.00000E+000 | 1.89215E-003 | 1.02881E-003 | 0.00000E+000 | 1.18960E-003 | 1.18960E-003 | 1.51057E-003 | 0.00000E+000 | 1.18935E-003 |
| Forklifts | 1.20700E-003 | 1.19236E-003 | 1.18496E-003 | 0.00000E+000 | 1.17351E-003 | 1.09329E-003 | 0.00000E+000 | 1.18967E-003 | 1.18967E-003 | 1.27877E-003 | 0.00000E+000 | 1.18966E-003 |
| Generator Sets | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Graders | 1.07021E-003 | 1.19202E-003 | 1.18640E-003 | 0.00000E+000 | 1.11566E-003 | 1.21261E-003 | 0.00000E+000 | 1.18959E-003 | 1.18959E-003 | 1.27714E-003 | 0.00000E+000 | 1.18938E-003 |
| Other Construction Equipment Pavers | 1.17173E-003 | 1.18868E-003 | 1.19011E-003 | 0.00000E+000 | 1.17925E-003 | 1.15362E-003 | 0.00000E+000 | 1.18960E-003 | 1.18960E-003 | 1.07628E-003 | 0.00000E+000 | 1.18962E-003 |
| Paving Equipment | 1.14548E-003 | 1.18155E-003 | 1.21193E-003 | 0.00000E+000 | 1.23102E-003 | 1.33809E-003 | 0.00000E+000 | 1.18957E-003 | 1.18957E-003 | 1.41643E-003 | 0.00000E+000 | 1.18951E-003 |
| Pumps | 1.08903E-003 | 1.19904E-003 | 1.19799E-003 | 0.00000E+000 | 9.46522E-004 | 1.02881E-003 | 0.00000E+000 | 1.18962E-003 | 1.18962E-003 | 7.22022E-004 | 0.00000E+000 | 1.18949E-003 |
| Rollers | 1.09512E-003 | 1.20061E-003 | 1.17516E-003 | 1.72414E-002 | 1.16887E-003 | 1.16887E-003 | 0.00000E+000 | 1.18955E-003 | 1.18955E-003 | 0.00000E+000 | 0.00000E+000 | 1.18975E-003 |
| Rubber Tired Dozers | 1.08844E-003 | 1.17657E-003 | 1.17530E-003 | 0.00000E+000 | 1.20000E-003 | 1.30439E-003 | 0.00000E+000 | 1.18951E-003 | 1.18951E-003 | 1.21951E-003 | 0.00000E+000 | 1.18933E-003 |
| Rubber Tired Loaders | 1.15624E-003 | 1.19363E-003 | 1.18970E-003 | 0.00000E+000 | 1.22150E-003 | 1.10644E-003 | 0.00000E+000 | 1.18957E-003 | 1.18957E-003 | 1.55119E-003 | 0.00000E+000 | 1.18967E-003 |
| Tractors/Loaders/Bags | 8.87311E-004 | 1.20603E-003 | 1.21536E-003 | 0.00000E+000 | 1.96078E-003 | 2.13220E-003 | 0.00000E+000 | 1.18988E-003 | 1.18988E-003 | 0.00000E+000 | 0.00000E+000 | 1.18942E-003 |
| Welders | 1.16732E-003 | 1.18749E-003 | 1.19268E-003 | 5.43478E-003 | 1.18312E-003 | 1.21455E-003 | 0.00000E+000 | 1.18962E-003 | 1.18962E-003 | 1.14855E-003 | 0.00000E+000 | 1.18959E-003 |
| | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input

| Yes/No | Mitigation Measure | Mitigation Input | Mitigation Input |
|--------|--|--------------------|---------------------|
| No | Soil Stabilizer for unpaved Roads | PM10 Reduction | PM2.5 Reduction |
| No | Replace Ground Cover of Area Disturbed | PM10 Reduction | PM2.5 Reduction |
| Yes | Water Exposed Area | PM10 Reduction | PM2.5 Reduction |
| No | Unpaved Road Mitigation | Moisture Content % | Vehicle Speed (mph) |
| Yes | Clean Paved Road | % PM Reduction | Frequency (per day) |

| Phase | Source | Unmitigated | | Mitigated | | Percent Reduction | |
|---|---------------|-------------|-------|-----------|-------|-------------------|--------|
| | | PM10 | PM2.5 | PM10 | PM2.5 | PM10 | PM2.5 |
| Architectural Coating | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Architectural Coating | Roads | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| Bayside Dr Roadway Improvements & Trail | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Bayside Dr Roadway Improvements & Trail | Roads | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| Demolition | Fugitive Dust | 0.08 | 0.01 | 0.04 | 0.01 | 0.55 | 0.55 |
| Demolition | Roads | 0.01 | 0.00 | 0.11 | 0.03 | -11.73 | -10.58 |
| Excavation & De-watering | Fugitive Dust | 0.10 | 0.03 | 0.04 | 0.01 | 0.55 | 0.55 |
| Excavation & De-watering | Roads | 0.02 | 0.01 | 0.58 | 0.14 | -23.28 | -21.04 |
| Final Landscaping | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Final Landscaping | Roads | 0.03 | 0.01 | 0.03 | 0.01 | 0.00 | 0.00 |
| Infrastructure/Foundations | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Infrastructure/Foundations | Roads | 0.06 | 0.02 | 0.06 | 0.02 | 0.00 | 0.00 |
| Paving | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Reconfigure Mobile Home Park | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Reconfigure Mobile Home Park | Roads | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| Vertical Construction | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vertical Construction | Roads | 0.15 | 0.04 | 0.15 | 0.04 | 0.00 | 0.00 |

Newport Back Bay Landing - Operations with Mitigation

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-------|---------------|-------------|--------------------|------------|
| General Office Building | 17.08 | 1000sqft | 0.52 | 17,075.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 36.50 | 1000sqft | 1.12 | 36,500.00 | 0 |
| High Turnover (Sit Down Restaurant) | 3.50 | 1000sqft | 0.11 | 3,500.00 | 0 |
| Quality Restaurant | 4.10 | 1000sqft | 0.12 | 4,100.00 | 0 |
| Condo/Townhouse | 49.00 | Dwelling Unit | 4.10 | 85,644.00 | 108 |
| Strip Mall | 32.86 | 1000sqft | 1.00 | 32,859.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------|-------|-------------------------|------|----------------------------------|----|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 8 | Operational Year | 2017 | | |

Utility Company Southern California Edison

| | | | | | |
|---------------------------------|--------|---------------------------------|-------|---------------------------------|-------|
| CO2 Intensity (lb/MW/hr) | 630.89 | CH4 Intensity (lb/MW/hr) | 0.029 | N2O Intensity (lb/MW/hr) | 0.006 |
|---------------------------------|--------|---------------------------------|-------|---------------------------------|-------|

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational Emissions with Mitigation

Land Use - Unrefrigerated Warehouse refers to the 32,500 sqft Enclosed Dry-Stack Boat Storage & 4,000 sqft Storage Area (lockers); Population of 108 (See DEIR Section 4.K., Population, Housing, and Employment; value rounded up).

Vehicle Trips - Condo/Townhouse (5.81), General Office (11.01/2.37/0.98), Unrefrigerated Warehouse (1.29), High Turnover Restaurant (122.29), Quality Restaurant (86.83), Strip Mall (44.32/42.04/20.43).

Vehicle Emission Factors -

Woodstoves - No Woodstoves; Natural Gas fireplaces.

Landscape Equipment -

Energy Use -

Water And Wastewater - No water use for the 32,500 sqft Enclosed Dry-Stack Boat Storage and 4,000 sqft Storage Area.

Solid Waste - Residential (4 lbs/unit/day; 35.77 tons/year); Office (6 lbs/ksf/day; 18.70 tons/year); Commercial (5 lbs/ksf/day; 70.23 tons/year).

Mobile Land Use Mitigation - Low Density Suburban (conservative): Inc. Density (7.74 DU/acre, 6.79 Jobs/acre); Inc. Diversity (Res., Retail, Office, Recreation); Inc. Transit Access (0.1 mi, OCTA Rte 1, 55); Improve Pedestrian Ntwrk (Project Site/Connecting Off-Site).

Mobile Commute Mitigation - Commute Measures: Implement Trip Reduction Program (20% employee eligible, voluntary; based on low-range scenario in CAPCOA Guidance (Aug 2010)).

Area Mitigation - Only Natural Gas Hearth.

Energy Mitigation - Exceed Title 24 by 15%; High Eff. Lighting (17-49% reduction per <http://www.oregon.gov/energy/CONS/BUS/light/Pages/FAQ.aspx>, 17% assumed); Energy Eff. Appliances (all for Condo; dishwasher/refrig. for Q.Rest.).

Water Mitigation - Water Measures: Low-flow water fixtures (CalGreen, 20% reduction in flow indoor water use); Water-efficient irrigation system (6.1% reduction outdoor water use).

Operational Off-Road Equipment - Rough Terrain Forklift: Wiggins 4-wheel lift tractor system, natural gas powered, engines 3 x 160 HP.

| Table Name | Column Name | Default Value | New Value |
|----------------|------------------------------|---------------|-----------|
| tb/AreaCoating | Area_Nonresidential_Interior | 141051 | 141045 |
| tb/AreaCoating | Area_Residential_Exterior | 57810 | 33075 |
| tb/AreaCoating | Area_Residential_Interior | 173429 | 99225 |
| tb/IFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tb/IFireplaces | NumberGas | 41.65 | 49.00 |
| tb/IFireplaces | NumberNoFireplace | 4.90 | 0.00 |
| tb/IFireplaces | NumberWood | 2.45 | 0.00 |
| tbl/LandUse | LandUseSquareFeet | 17,080.00 | 17,075.00 |
| tbl/LandUse | LandUseSquareFeet | 49,000.00 | 85,644.00 |
| tbl/LandUse | LandUseSquareFeet | 32,860.00 | 32,859.00 |
| tbl/LandUse | LotAcreage | 0.39 | 0.52 |
| tbl/LandUse | LotAcreage | 0.84 | 1.12 |
| tbl/LandUse | LotAcreage | 0.08 | 0.11 |
| tbl/LandUse | LotAcreage | 0.09 | 0.12 |

| | | | |
|--------------------------------|----------------------------|--------------|--------------|
| tblLandUse | LotAcreage | 3.06 | 4.10 |
| tblLandUse | LotAcreage | 0.75 | 1.00 |
| tblLandUse | Population | 140.00 | 108.00 |
| tblOperationalOffRoadEquipment | OperDaysPerYear | 260.00 | 169.00 |
| tblOperationalOffRoadEquipment | OperFuelType | Diesel | CNG |
| tblOperationalOffRoadEquipment | OperHorsePower | 100.00 | 160.00 |
| tblOperationalOffRoadEquipment | OperHoursPerDay | 8.00 | 7.00 |
| tblOperationalOffRoadEquipment | OperLoadFactor | 0.40 | 0.40 |
| tblOperationalOffRoadEquipment | OperOffRoadEquipmentNumber | 0.00 | 3.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2017 |
| tblSolidWaste | SolidWasteGenerationRate | 22.54 | 35.77 |
| tblSolidWaste | SolidWasteGenerationRate | 15.88 | 18.70 |
| tblSolidWaste | SolidWasteGenerationRate | 41.65 | 20.00 |
| tblSolidWaste | SolidWasteGenerationRate | 3.74 | 10.00 |
| tblSolidWaste | SolidWasteGenerationRate | 34.50 | 30.23 |
| tblSolidWaste | SolidWasteGenerationRate | 34.31 | 10.00 |
| tblVehicleTrips | ST_TR | 7.16 | 5.81 |
| tblVehicleTrips | ST_TR | 158.37 | 122.29 |
| tblVehicleTrips | ST_TR | 94.36 | 86.83 |
| tblVehicleTrips | ST_TR | 2.59 | 1.29 |
| tblVehicleTrips | SU_TR | 6.07 | 5.81 |
| tblVehicleTrips | SU_TR | 131.84 | 122.29 |
| tblVehicleTrips | SU_TR | 72.16 | 86.83 |
| tblVehicleTrips | SU_TR | 2.59 | 1.29 |
| tblVehicleTrips | WD_TR | 6.59 | 5.81 |
| tblVehicleTrips | WD_TR | 127.15 | 122.29 |
| tblVehicleTrips | WD_TR | 89.95 | 86.83 |
| tblVehicleTrips | WD_TR | 2.59 | 1.29 |
| tblWater | IndoorWaterUseRate | 3,035,692.42 | 3,033,915.08 |
| tblWater | IndoorWaterUseRate | 8,440,625.00 | 0.00 |

| | | | |
|--------------------|--------------------------------------|--------------|--------------|
| tblWater | OutdoorWaterUseRate | 1,860,585.67 | 1,859,496.34 |
| tblWaterMitigation | PercentReductionInFlowBathroomFaucet | 32 | 20 |
| tblWaterMitigation | PercentReductionInFlowKitchenFaucet | 18 | 20 |
| tblWoodstoves | NumberCatalytic | 2.45 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2.45 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

2.2 Overall Operational Unmitigated Operational

| Category | 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 |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Area | 4.4829 | 0.0477 | 4.0983 | 2.1000e-004 | 0.0879 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0872 | 0.0000 | 1,044.9467 | 1,044.9467 | 0.0273 | 0.0190 | 1,051.4163 |
| Energy | 0.0934 | 0.8361 | 0.6212 | 5.0900e-003 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | | 1,018.3260 | 1,018.3260 | 0.0195 | 0.0187 | 1,024.5234 |
| Mobile | 19.8651 | 18.7335 | 79.1324 | 0.1820 | 11.9646 | 0.2611 | 12.2256 | 3.1969 | 0.2403 | 3.4372 | | 15,484.0640 | 15,484.0640 | 0.6042 | | 15,496.7520 |
| Offroad | 0.5790 | 8.6407 | 8.3355 | 0.0145 | 0.3337 | 0.3337 | 0.3337 | 0.3070 | 0.3070 | 0.3070 | | 1,482.2930 | 1,482.2930 | 0.4542 | | 1,491.8306 |
| Total | 25.0203 | 28.2580 | 92.3874 | 0.2018 | 11.9646 | 0.7472 | 12.7118 | 3.1969 | 0.6991 | 3.8959 | 0.0000 | 19,029.6297 | 19,029.6297 | 1.1051 | 0.0377 | 19,064.5223 |
| | lb/day | | | | | | | | | | | | | | | |

Mitigated Operational

| Category | 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 |
|----------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| | lb/day | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Area | 4.4829 | 0.0477 | 4.0983 | 2.100e-004 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0000 | 1,044.9467 | 1,044.9467 | 0.0273 | 0.0190 | 1,051.4163 |
| Energy | 0.0863 | 0.7734 | 0.5784 | 4.7100e-003 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | | 941.1981 | 941.1981 | 0.0180 | 0.0173 | 946.9261 |
| Mobile | 18.1363 | 17.1408 | 73.2197 | 0.1631 | 10.6719 | 0.2352 | 10.9071 | 2.8515 | 3.0680 | 13,878.3353 | 13,878.3353 | 0.5472 | | 13,889.8259 |
| Offroad | 0.5790 | 8.6407 | 8.5355 | 0.0145 | 0.3337 | 0.3337 | 0.3070 | 0.3070 | | 1,482.2930 | 1,482.2930 | 0.4542 | | 1,491.8306 |
| Total | 23.2844 | 26.6025 | 86.4319 | 0.1825 | 10.6719 | 0.7165 | 11.3884 | 2.8515 | 3.5218 | 17,346.7730 | 17,346.7730 | 1.0466 | 0.0363 | 17,379.9988 |

| | 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 | 9.2521 | 36.4361 | 15.6851 | 16.7270 | 10.8042 | 48.7775 | 13.0363 | 10.8040 | 48.0259 | 17.4829 | 0.0000 | 16.6327 | 16.6327 | 46.3900 | 3.7410 | 16.6611 |

3.0 Construction Detail

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Increase Transit Accessibility
- Improve Pedestrian Network
- Implement Trip Reduction Program

| Category | 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 |
|-----------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|-----------|-----------|-------------|-----|------|
| Mitigated | 18.1363 | 17.1408 | 73.2197 | 0.1631 | 10.6719 | 0.2352 | 10.9071 | 2.8515 | 3.0680 | 13,878.3353 | 13,878.3353 | 0.5472 | | 13,889.8259 | | |
| | | | | | | | | | | | | | 53 | 53 | | 59 |

| | | | | | | | | | | | | | | | | | | |
|-------------|---------|---------|---------|--------|---------|--------|---------|--------|--------|--------|-----------|-----------|--------|-----------|----|----|-----------|----|
| Unmitigated | 19.8651 | 18.7335 | 79.1324 | 0.1820 | 11.9646 | 0.2611 | 12.2256 | 3.1969 | 0.2403 | 3.4372 | 15.484.06 | 15.484.06 | 0.6042 | 15.484.06 | 40 | 40 | 15,496.75 | 20 |
|-------------|---------|---------|---------|--------|---------|--------|---------|--------|--------|--------|-----------|-----------|--------|-----------|----|----|-----------|----|

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated Annual VMT | Mitigated Annual VMT |
|-------------------------------------|-------------------------|-----------------|-----------------|------------------------|----------------------|
| | Weekday | Saturday | Sunday | | |
| Condo/Townhouse | 284.69 | 284.69 | 284.69 | 972,829 | 879,387 |
| General Office Building | 188.05 | 40.48 | 16.74 | 459,045 | 407,841 |
| High Turnover (Sit Down Restaurant) | 428.02 | 428.02 | 428.02 | 583,312 | 519,039 |
| Quality Restaurant | 356.00 | 356.00 | 356.00 | 506,817 | 450,858 |
| Strip Mall | 1,456.36 | 1,381.43 | 671.33 | 2,537,122 | 2,256,244 |
| Unrefrigerated Warehouse-No Rail | 47.09 | 47.09 | 47.09 | 201,793 | 180,290 |
| Total | 2,760.20 | 2,537.71 | 1,803.86 | 5,260,918 | 4,693,659 |

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- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Quality Restaurant | 16.60 | 8.40 | 6.90 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unrefrigerated Warehouse-No | 16.60 | 8.40 | 6.90 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

4.4 Fleet Mix

| | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
| 0.512163 | 0.060173 | 0.180257 | 0.139094 | 0.042244 | 0.006664 | 0.016017 | 0.031880 | 0.001940 | 0.002497 | 0.004356 | 0.000592 | 0.002122 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting
 Install Energy Efficient Appliances

| Category | 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 |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| | lb/day | | | | | | | | | | | | | | | |
| NaturalGas Mitigated | 0.0863 | 0.7734 | 0.5784 | 4.7100e-003 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | | 941.1981 | 941.1981 | 0.0180 | 0.0173 | 946.9261 |
| NaturalGas Unmitigated | 0.0934 | 0.8361 | 0.6212 | 5.0900e-003 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | | 1,018.3260 | 1,018.3260 | 0.0195 | 0.0187 | 1,024.5234 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| Land Use | NaturalGas Use | 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 |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| | lb/day | | | | | | | | | | | | | | | | |
| General Office Building | 448.628 | 4.8400e-003 | 0.0440 | 0.0370 | 2.6000e-004 | | 3.3400e-003 | 3.3400e-003 | | 3.3400e-003 | 3.3400e-003 | | 52.7798 | 52.7798 | 1.0100e-003 | 9.7000e-004 | 53.1010 |
| High Turnover (Sit Down Restaurant) | 2526.04 | 0.0272 | 0.2477 | 0.2080 | 1.4900e-003 | | 0.0188 | 0.0188 | | 0.0188 | 0.0188 | | 297.1813 | 297.1813 | 5.7000e-003 | 5.4500e-003 | 298.9899 |
| Quality Restaurant | 2959.08 | 0.0319 | 0.2901 | 0.2437 | 1.7400e-003 | | 0.0221 | 0.0221 | | 0.0221 | 0.0221 | | 348.1267 | 348.1267 | 6.6700e-003 | 6.3800e-003 | 350.2453 |
| Strip Mall | 184.551 | 1.9900e-003 | 0.0181 | 0.0152 | 1.1000e-004 | | 1.3800e-003 | 1.3800e-003 | | 1.3800e-003 | 1.3800e-003 | | 21.7118 | 21.7118 | 4.2000e-004 | 4.0000e-004 | 21.8440 |
| Unrefrigerated Warehouse-No Peak | 413 | 4.4500e-003 | 0.0405 | 0.0340 | 2.4000e-004 | | 3.0800e-003 | 3.0800e-003 | | 3.0800e-003 | 3.0800e-003 | | 48.5882 | 48.5882 | 9.3000e-004 | 8.9000e-004 | 48.8839 |
| Condo/Townhouse | 2124.47 | 0.0229 | 0.1958 | 0.0833 | 1.2500e-003 | | 0.0158 | 0.0158 | | 0.0158 | 0.0158 | | 249.9382 | 249.9382 | 4.7900e-003 | 4.5800e-003 | 251.4593 |
| Total | | 0.0933 | 0.8361 | 0.6212 | 5.0900e-003 | | 0.0645 | 0.0645 | | 0.0645 | 0.0645 | | 1,018.3260 | 1,018.3260 | 0.0195 | 0.0187 | 1,024.5234 |

Mitigated

| | Natural/Gas Use | 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 |
|-------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | | | | | | |
| General Office Building | 0.385193 | 4.1500e-003 | 0.0378 | 0.0317 | 2.3000e-004 | 2.8700e-003 | 2.8700e-003 | 2.8700e-003 | 2.8700e-003 | 2.8700e-003 | 2.8700e-003 | 45.3169 | 45.3169 | 45.3169 | 8.7000e-004 | 8.3000e-004 | 45.5927 |
| High Turnover (Sit Down Restaurant) | 2.40713 | 0.0260 | 0.2360 | 0.1982 | 1.4200e-003 | 0.0179 | 0.0179 | 0.0179 | 0.0179 | 0.0179 | 0.0179 | 283.1920 | 283.1920 | 283.1920 | 5.4300e-003 | 5.1900e-003 | 284.9155 |
| Quality Restaurant | 2.81978 | 0.0304 | 0.2765 | 0.2322 | 1.6600e-003 | 0.0210 | 0.0210 | 0.0210 | 0.0210 | 0.0210 | 0.0210 | 331.7392 | 331.7392 | 331.7392 | 6.3600e-003 | 6.0600e-003 | 333.7581 |
| Strip Mall | 0.171047 | 1.8400e-003 | 0.0168 | 0.0141 | 1.0000e-004 | 1.2700e-003 | 1.2700e-003 | 1.2700e-003 | 1.2700e-003 | 1.2700e-003 | 1.2700e-003 | 20.1232 | 20.1232 | 20.1232 | 3.9000e-004 | 3.7000e-004 | 20.2456 |
| Unrefrigerated Warehouse-No Pallet | 0.3518 | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | 2.6200e-003 | 2.6200e-003 | 2.6200e-003 | 2.6200e-003 | 2.6200e-003 | 2.6200e-003 | 41.3882 | 41.3882 | 41.3882 | 7.9000e-004 | 7.6000e-004 | 41.6401 |
| Condo/Townhouse | 1.86523 | 0.0201 | 0.1719 | 0.0732 | 1.1000e-003 | 0.0139 | 0.0139 | 0.0139 | 0.0139 | 0.0139 | 0.0139 | 219.4386 | 219.4386 | 219.4386 | 4.2100e-003 | 4.0200e-003 | 220.7740 |
| Total | | 0.0863 | 0.7734 | 0.5784 | 4.7200e-003 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | 941.1981 | 941.1981 | 941.1981 | 0.0181 | 0.0173 | 946.9261 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

| | 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 | lb/day | | | | | | | | | | | | | | | |
| Mitigated | 4.4829 | 0.0477 | 4.0983 | 2.1000e-004 | 0.0879 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0872 | 0.0000 | 1,044.946 | 1,044.946 | 0.0273 | 0.0190 | 1,051.416 |
| Unmitigated | 4.4829 | 0.0477 | 4.0983 | 2.1000e-004 | 0.0879 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0872 | 0.0000 | 1,044.946 | 1,044.946 | 0.0273 | 0.0190 | 1,051.416 |
| Total | | | | | | | | | | | | | | | | |

6.2 Area by SubCategory

Unmitigated

| SubCategory | 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 |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------|------------------|---------------|---------------|------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Architectural Coating | 0.7020 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5576 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0951 | 0.0000 | 5.1900e-003 | 0.0000 | 0.0657 | 0.0657 | 0.0657 | 0.0650 | 0.0650 | 0.0650 | 0.0000 | 1,037.647 | 1,037.647 | 0.0199 | 0.0190 | 1,043.962 |
| Landscaping | 0.1281 | 0.0477 | 4.0931 | 2.1000e-004 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | | 7.2996 | 7.2996 | 7.3600e-003 | | 7.4543 |
| Total | 4.4829 | 0.0477 | 4.0983 | 2.1000e-004 | 0.0879 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0872 | 0.0000 | 1,044.946 | 1,044.946 | 0.0273 | 0.0190 | 1,051.416 |

Mitigated

| SubCategory | 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 |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------|------------------|---------------|---------------|------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Architectural Coating | 0.7020 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5576 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0951 | 0.0000 | 5.1900e-003 | 0.0000 | 0.0657 | 0.0657 | 0.0657 | 0.0650 | 0.0650 | 0.0650 | 0.0000 | 1,037.647 | 1,037.647 | 0.0199 | 0.0190 | 1,043.962 |
| Landscaping | 0.1281 | 0.0477 | 4.0931 | 2.1000e-004 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | | 7.2996 | 7.2996 | 7.3600e-003 | | 7.4543 |
| Total | 4.4829 | 0.0477 | 4.0983 | 2.1000e-004 | 0.0879 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0872 | 0.0000 | 1,044.946 | 1,044.946 | 0.0273 | 0.0190 | 1,051.416 |

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|-------------------------|--------|-----------|-----------|-------------|-------------|-----------|
| Rough Terrain Forklifts | 3 | 7.00 | 169 | 160 | 0.40 | CNG |

UnMitigated/Mitigated

| Equipment Type | 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 |
|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|-------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Rough Terrain Forklifts | 0.5790 | 8.6407 | 8.5355 | 0.0145 | 0.3337 | 0.3337 | 0.3337 | 0.3070 | 0.3070 | 0.3070 | 1,482.293 | 0 | 1,482.293 | 0.4542 | | 1,491.8306 |
| Total | 0.5790 | 8.6407 | 8.5355 | 0.0145 | 0.3337 | 0.3337 | 0.3337 | 0.3070 | 0.3070 | 0.3070 | 1,482.293 | 0 | 1,482.293 | 0.4542 | | 1,491.8306 |

10.0 Vegetation

Newport Back Bay Landing - Operations with Mitigation South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-------|---------------|-------------|--------------------|------------|
| General Office Building | 17.08 | 1000sqft | 0.52 | 17,075.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 36.50 | 1000sqft | 1.12 | 36,500.00 | 0 |
| High Turnover (Sit Down Restaurant) | 3.50 | 1000sqft | 0.11 | 3,500.00 | 0 |
| Quality Restaurant | 4.10 | 1000sqft | 0.12 | 4,100.00 | 0 |
| Condo/Townhouse | 49.00 | Dwelling Unit | 4.10 | 85,644.00 | 108 |
| Strip Mall | 32.86 | 1000sqft | 1.00 | 32,859.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------|-------|-------------------------|------|----------------------------------|----|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 8 | Operational Year | 2017 | | |

Utility Company Southern California Edison

| | | | | | |
|---------------------------------|--------|---------------------------------|-------|---------------------------------|-------|
| CO2 Intensity (lb/MW/hr) | 630.89 | CH4 Intensity (lb/MW/hr) | 0.029 | N2O Intensity (lb/MW/hr) | 0.006 |
|---------------------------------|--------|---------------------------------|-------|---------------------------------|-------|

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational Emissions with Mitigation

Land Use - Unrefrigerated Warehouse refers to the 32,500 sqft Enclosed Dry-Stack Boat Storage & 4,000 sqft Storage Area (lockers); Population of 108 (See DEIR Section 4.K., Population, Housing, and Employment; value rounded up).

Vehicle Trips - Condo/Townhouse (5.81), General Office (11.01/2.37/0.98), Unrefrigerated Warehouse (1.29), High Turnover Restaurant (122.29), Quality Restaurant (86.83), Strip Mall (44.32/42.04/20.43).

Vehicle Emission Factors -

Woodstoves - No Woodstoves; Natural Gas fireplaces.

Landscape Equipment -

Energy Use -

Water And Wastewater - No water use for the 32,500 sqft Enclosed Dry-Stack Boat Storage and 4,000 sqft Storage Area.

Solid Waste - Residential (4 lbs/unit/day; 35.77 tons/year); Office (6 lbs/ksf/day; 18.70 tons/year); Commercial (5 lbs/ksf/day; 70.23 tons/year).

Mobile Land Use Mitigation - Low Density Suburban (conservative): Inc. Density (7.74 DU/acre, 6.79 Jobs/acre); Inc. Diversity (Res., Retail, Office, Recreation); Inc. Transit Access (0.1 mi, OCTA Rte 1, 55); Improve Pedestrian Ntwrk (Project Site/Connecting Off-Site).

Mobile Commute Mitigation - Commute Measures: Implement Trip Reduction Program (20% employee eligible, voluntary; based on low-range scenario in CAPCOA Guidance (Aug 2010)).

Area Mitigation - Only Natural Gas Hearth.

Energy Mitigation - Exceed Title 24 by 15%; High Eff. Lighting (17-49% reduction per <http://www.oregon.gov/energy/CONS/BUS/light/Pages/FAQ.aspx>, 17% assumed); Energy Eff. Appliances (all for Condo; dishwasher/refrig. for Q.Rest.).

Water Mitigation - Water Measures: Low-flow water fixtures (CalGreen, 20% reduction in flow indoor water use); Water-efficient irrigation system (6.1% reduction outdoor water use).

Operational Off-Road Equipment - Rough Terrain Forklift: Wiggins 4-wheel lift tractor system, natural gas powered, engines 3 x 160 HP.

| Table Name | Column Name | Default Value | New Value |
|----------------|------------------------------|---------------|-----------|
| tb/AreaCoating | Area_Nonresidential_Interior | 141051 | 141045 |
| tb/AreaCoating | Area_Residential_Exterior | 57810 | 33075 |
| tb/AreaCoating | Area_Residential_Interior | 173429 | 99225 |
| tb/IFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tb/IFireplaces | NumberGas | 41.65 | 49.00 |
| tb/IFireplaces | NumberNoFireplace | 4.90 | 0.00 |
| tb/IFireplaces | NumberWood | 2.45 | 0.00 |
| tbl/LandUse | LandUseSquareFeet | 17,080.00 | 17,075.00 |
| tbl/LandUse | LandUseSquareFeet | 49,000.00 | 85,644.00 |
| tbl/LandUse | LandUseSquareFeet | 32,860.00 | 32,859.00 |
| tbl/LandUse | LotAcreage | 0.39 | 0.52 |
| tbl/LandUse | LotAcreage | 0.84 | 1.12 |
| tbl/LandUse | LotAcreage | 0.08 | 0.11 |
| tbl/LandUse | LotAcreage | 0.09 | 0.12 |

| | | | |
|--------------------------------|----------------------------|--------------|--------------|
| tblLandUse | LotAcreage | 3.06 | 4.10 |
| tblLandUse | LotAcreage | 0.75 | 1.00 |
| tblLandUse | Population | 140.00 | 108.00 |
| tblOperationalOffRoadEquipment | OperDaysPerYear | 260.00 | 169.00 |
| tblOperationalOffRoadEquipment | OperFuelType | Diesel | CNG |
| tblOperationalOffRoadEquipment | OperHorsePower | 100.00 | 160.00 |
| tblOperationalOffRoadEquipment | OperHoursPerDay | 8.00 | 7.00 |
| tblOperationalOffRoadEquipment | OperLoadFactor | 0.40 | 0.40 |
| tblOperationalOffRoadEquipment | OperOffRoadEquipmentNumber | 0.00 | 3.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2017 |
| tblSolidWaste | SolidWasteGenerationRate | 22.54 | 35.77 |
| tblSolidWaste | SolidWasteGenerationRate | 15.88 | 18.70 |
| tblSolidWaste | SolidWasteGenerationRate | 41.65 | 20.00 |
| tblSolidWaste | SolidWasteGenerationRate | 3.74 | 10.00 |
| tblSolidWaste | SolidWasteGenerationRate | 34.50 | 30.23 |
| tblSolidWaste | SolidWasteGenerationRate | 34.31 | 10.00 |
| tblVehicleTrips | ST_TR | 7.16 | 5.81 |
| tblVehicleTrips | ST_TR | 158.37 | 122.29 |
| tblVehicleTrips | ST_TR | 94.36 | 86.83 |
| tblVehicleTrips | ST_TR | 2.59 | 1.29 |
| tblVehicleTrips | SU_TR | 6.07 | 5.81 |
| tblVehicleTrips | SU_TR | 131.84 | 122.29 |
| tblVehicleTrips | SU_TR | 72.16 | 86.83 |
| tblVehicleTrips | SU_TR | 2.59 | 1.29 |
| tblVehicleTrips | WD_TR | 6.59 | 5.81 |
| tblVehicleTrips | WD_TR | 127.15 | 122.29 |
| tblVehicleTrips | WD_TR | 89.95 | 86.83 |
| tblVehicleTrips | WD_TR | 2.59 | 1.29 |
| tblWater | IndoorWaterUseRate | 3,035,692.42 | 3,033,915.08 |
| tblWater | IndoorWaterUseRate | 8,440,625.00 | 0.00 |

| | | | |
|--------------------|--------------------------------------|--------------|--------------|
| tblWater | OutdoorWaterUseRate | 1,860,585.67 | 1,859,496.34 |
| tblWaterMitigation | PercentReductionInFlowBathroomFaucet | 32 | 20 |
| tblWaterMitigation | PercentReductionInFlowKitchenFaucet | 18 | 20 |
| tblWoodstoves | NumberCatalytic | 2.45 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2.45 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

| Category | 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 |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Area | 4.4829 | 0.0477 | 4.0983 | 2.1000e-004 | 0.0879 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0872 | 0.0000 | 1,044.9467 | 1,044.9467 | 0.0273 | 0.0190 | 1,051.4163 |
| Energy | 0.0934 | 0.8361 | 0.6212 | 5.0900e-003 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | 0.0000 | 1,018.3260 | 1,018.3260 | 0.0195 | 0.0187 | 1,024.5234 |
| Mobile | 22.5714 | 19.6303 | 80.5636 | 0.1729 | 11.9646 | 0.2627 | 12.2272 | 3.1969 | 0.2417 | 3.4386 | 0.0000 | 14,742.0260 | 14,742.0260 | 0.6050 | 0.0101 | 14,754.7301 |
| Offroad | 0.5790 | 8.6407 | 8.5355 | 0.0145 | 0.3337 | 0.3337 | 0.3337 | 0.3070 | 0.3070 | 0.3070 | 0.0000 | 1,482.2930 | 1,482.2930 | 0.4542 | 0.0006 | 1,491.8306 |
| Total | 27.7266 | 29.1548 | 93.8186 | 0.1927 | 11.9646 | 0.7488 | 12.7133 | 3.1969 | 0.7005 | 3.8974 | 0.0000 | 18,287.5918 | 18,287.5918 | 1.1059 | 0.0377 | 18,322.5004 |

Mitigated Operational

| Category | 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 |
|----------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| | lb/day | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Area | 4.4829 | 0.0477 | 4.0983 | 2.1000e-004 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0000 | 1,044.9467 | 1,044.9467 | 0.0273 | 0.0190 | 1,051.4163 |
| Energy | 0.0863 | 0.7734 | 0.5784 | 4.7100e-003 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | 0.0000 | 941.1981 | 941.1981 | 0.0180 | 0.0173 | 946.9261 |
| Mobile | 20.5392 | 17.9445 | 75.2508 | 0.1550 | 10.6719 | 0.2368 | 10.9087 | 2.8515 | 3.0694 | 13,213.7898 | 13,213.7898 | 0.5479 | | 13,225.2965 |
| Offroad | 0.5790 | 8.6407 | 8.5355 | 0.0145 | 0.3337 | 0.3337 | 0.3070 | 0.3070 | 0.0000 | 1,482.2930 | 1,482.2930 | 0.4542 | | 1,491.8306 |
| Total | 25.6873 | 27.4062 | 88.4630 | 0.1745 | 10.6719 | 0.7180 | 11.3899 | 2.8515 | 0.0000 | 16,682.2276 | 16,682.2276 | 1.0474 | 0.0363 | 16,715.4694 |

| | 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 | 9.4433 | 35.6348 | 14.8064 | 17.0082 | 10.8042 | 48.6772 | 13.0347 | 10.8040 | 47.9279 | 17.4765 | 0.0000 | 16.8839 | 16.8839 | 46.3577 | 3.7410 | 16.9129 |

3.0 Construction Detail

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Increase Transit Accessibility
- Improve Pedestrian Network
- Implement Trip Reduction Program

| Category | 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 |
|-----------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|---------|--------|-------------|
| Mitigated | 20.5392 | 17.9445 | 75.2508 | 0.1550 | 10.6719 | 0.2368 | 10.9087 | 2.8515 | 3.0694 | 13,213.7898 | 0.0000 | 16.8839 | 16.8839 | 46.3577 | 3.7410 | 16,912.9129 |
| | lb/day | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|-------------|---------|---------|---------|--------|---------|--------|---------|--------|--------|--------|-----------|----|-----------|----|--------|-----------|----|
| Unmitigated | 22.5714 | 19.6303 | 80.5636 | 0.1729 | 11.9646 | 0.2627 | 12.2272 | 3.1969 | 0.2417 | 3.4386 | 14,742.02 | 60 | 14,742.02 | 60 | 0.6050 | 14,754.73 | 01 |
|-------------|---------|---------|---------|--------|---------|--------|---------|--------|--------|--------|-----------|----|-----------|----|--------|-----------|----|

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated Annual VMT | Mitigated Annual VMT |
|-------------------------------------|-------------------------|-----------------|-----------------|------------------------|----------------------|
| | Weekday | Saturday | Sunday | | |
| Condo/Townhouse | 284.69 | 284.69 | 284.69 | 972,829 | 879,387 |
| General Office Building | 188.05 | 40.48 | 16.74 | 459,045 | 407,841 |
| High Turnover (Sit Down Restaurant) | 428.02 | 428.02 | 428.02 | 583,312 | 519,039 |
| Quality Restaurant | 356.00 | 356.00 | 356.00 | 506,817 | 450,858 |
| Strip Mall | 1,456.36 | 1,381.43 | 671.33 | 2,537,122 | 2,256,244 |
| Unrefrigerated Warehouse-No Rail | 47.09 | 47.09 | 47.09 | 201,793 | 180,290 |
| Total | 2,760.20 | 2,537.71 | 1,803.86 | 5,260,918 | 4,693,659 |

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- | H-S or C-C | H-O or C-NW | H-W or C-C | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by | | | |
| Condo/Townhouse | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 40.60 | 19.20 | 40.60 | 86 | 11 | 3 | | | |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 19.00 | 48.00 | 19.00 | 77 | 19 | 4 | | | |
| High Turnover (Sit Down) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 19.00 | 72.50 | 19.00 | 37 | 20 | 43 | | | |
| Quality Restaurant | 16.60 | 8.40 | 6.90 | 12.00 | 69.00 | 19.00 | 19.00 | 69.00 | 19.00 | 38 | 18 | 44 | | | |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 19.00 | 64.40 | 19.00 | 45 | 40 | 15 | | | |
| Unrefrigerated Warehouse-No | 16.60 | 8.40 | 6.90 | 59.00 | 0.00 | 41.00 | 41.00 | 0.00 | 41.00 | 92 | 5 | 3 | | | |

4.4 Fleet Mix

| | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
| 0.512163 | 0.060173 | 0.180257 | 0.139094 | 0.042244 | 0.006664 | 0.016017 | 0.031880 | 0.001940 | 0.002497 | 0.004356 | 0.000592 | 0.002122 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting
 Install Energy Efficient Appliances

| Category | 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 |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| | lb/day | | | | | | | | | | | | | | | |
| NaturalGas Mitigated | 0.0863 | 0.7734 | 0.5784 | 4.7100e-003 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | | 941.1981 | 941.1981 | 0.0180 | 0.0173 | 946.9261 |
| NaturalGas Unmitigated | 0.0934 | 0.8361 | 0.6212 | 5.0900e-003 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | 0.0645 | | 1,018.3260 | 1,018.3260 | 0.0195 | 0.0187 | 1,024.5234 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| Land Use | NaturalGas Use | 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 |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| | lb/day | | | | | | | | | | | | | | | | |
| General Office Building | 448.628 | 4.8400e-003 | 0.0440 | 0.0370 | 2.6000e-004 | | 3.3400e-003 | 3.3400e-003 | | 3.3400e-003 | 3.3400e-003 | | 52.7798 | 52.7798 | 1.0100e-003 | 9.7000e-004 | 53.1010 |
| High Turnover (Sit Down Restaurant) | 2526.04 | 0.0272 | 0.2477 | 0.2080 | 1.4900e-003 | | 0.0188 | 0.0188 | | 0.0188 | 0.0188 | | 297.1813 | 297.1813 | 5.7000e-003 | 5.4500e-003 | 298.9899 |
| Quality Restaurant | 2959.08 | 0.0319 | 0.2901 | 0.2437 | 1.7400e-003 | | 0.0221 | 0.0221 | | 0.0221 | 0.0221 | | 348.1267 | 348.1267 | 6.6700e-003 | 6.3800e-003 | 350.2453 |
| Strip Mall | 184.551 | 1.9900e-003 | 0.0181 | 0.0152 | 1.1000e-004 | | 1.3800e-003 | 1.3800e-003 | | 1.3800e-003 | 1.3800e-003 | | 21.7118 | 21.7118 | 4.2000e-004 | 4.0000e-004 | 21.8440 |
| Unrefrigerated Warehouse-No Peak | 413 | 4.4500e-003 | 0.0405 | 0.0340 | 2.4000e-004 | | 3.0800e-003 | 3.0800e-003 | | 3.0800e-003 | 3.0800e-003 | | 48.5882 | 48.5882 | 9.3000e-004 | 8.9000e-004 | 48.8839 |
| Condo/Townhouse | 2124.47 | 0.0229 | 0.1958 | 0.0833 | 1.2500e-003 | | 0.0158 | 0.0158 | | 0.0158 | 0.0158 | | 249.9382 | 249.9382 | 4.7900e-003 | 4.5800e-003 | 251.4593 |
| Total | | 0.0933 | 0.8361 | 0.6212 | 5.0900e-003 | | 0.0645 | 0.0645 | | 0.0645 | 0.0645 | | 1,018.3260 | 1,018.3260 | 0.0195 | 0.0187 | 1,024.5234 |

Mitigated

| | Natural/Gas Use | 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 |
|-------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | | | | | | | | | | | | | | | | |
| lb/day | | | | | | | | | | | | | | | | | |
| General Office Building | 0.385193 | 4.1500e-003 | 0.0378 | 0.0317 | 2.3000e-004 | 2.8700e-003 | 2.8700e-003 | 2.8700e-003 | 2.8700e-003 | 2.8700e-003 | 2.8700e-003 | 45.3169 | 45.3169 | 45.3169 | 8.7000e-004 | 8.3000e-004 | 45.5927 |
| High Turnover (Sit Down Restaurant) | 2.40713 | 0.0260 | 0.2360 | 0.1982 | 1.4200e-003 | 0.0179 | 0.0179 | 0.0179 | 0.0179 | 0.0179 | 0.0179 | 283.1920 | 283.1920 | 283.1920 | 5.4300e-003 | 5.1900e-003 | 284.9155 |
| Quality Restaurant | 2.81978 | 0.0304 | 0.2765 | 0.2322 | 1.6600e-003 | 0.0210 | 0.0210 | 0.0210 | 0.0210 | 0.0210 | 0.0210 | 331.7392 | 331.7392 | 331.7392 | 6.3600e-003 | 6.0600e-003 | 333.7581 |
| Strip Mall | 0.171047 | 1.8400e-003 | 0.0168 | 0.0141 | 1.0000e-004 | 1.2700e-003 | 1.2700e-003 | 1.2700e-003 | 1.2700e-003 | 1.2700e-003 | 1.2700e-003 | 20.1232 | 20.1232 | 20.1232 | 3.9000e-004 | 3.7000e-004 | 20.2456 |
| Unrefrigerated Warehouse-No Peak | 0.3518 | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | 2.6200e-003 | 2.6200e-003 | 2.6200e-003 | 2.6200e-003 | 2.6200e-003 | 2.6200e-003 | 41.3882 | 41.3882 | 41.3882 | 7.9000e-004 | 7.6000e-004 | 41.6401 |
| Condo/Townhouse | 1.86523 | 0.0201 | 0.1719 | 0.0732 | 1.1000e-003 | 0.0139 | 0.0139 | 0.0139 | 0.0139 | 0.0139 | 0.0139 | 219.4386 | 219.4386 | 219.4386 | 4.2100e-003 | 4.0200e-003 | 220.7740 |
| Total | | 0.0863 | 0.7734 | 0.5784 | 4.7200e-003 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | 0.0596 | 941.1981 | 941.1981 | 941.1981 | 0.0181 | 0.0173 | 946.9261 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

| | 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 | | | | | | | | | | | | | | | | |
| lb/day | | | | | | | | | | | | | | | | |
| Mitigated | 4.4829 | 0.0477 | 4.0983 | 2.1000e-004 | 0.0879 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0872 | 1,044.946 | 1,044.946 | 1,044.946 | 0.0273 | 0.0190 | 1,051.416 |
| Unmitigated | 4.4829 | 0.0477 | 4.0983 | 2.1000e-004 | 0.0879 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0872 | 7 | 7 | 7 | 0.0273 | 0.0190 | 1,051.416 |
| Total | | | | | | | | | | | 7 | 7 | 7 | 0.0273 | 0.0190 | 3 |

6.2 Area by SubCategory

Unmitigated

| SubCategory | 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 |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------|------------------|---------------|---------------|------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Architectural Coating | 0.7020 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5576 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0951 | 0.0000 | 5.1900e-003 | 0.0000 | 0.0657 | 0.0657 | 0.0657 | 0.0650 | 0.0650 | 0.0650 | 0.0000 | 1,037.647 | 1,037.647 | 0.0199 | 0.0190 | 1,043.962 |
| Landscaping | 0.1281 | 0.0477 | 4.0931 | 2.1000e-004 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | | 7.2996 | 7.2996 | 7.3600e-003 | | 7.4543 |
| Total | 4.4829 | 0.0477 | 4.0983 | 2.1000e-004 | 0.0879 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0872 | 0.0000 | 1,044.946 | 1,044.946 | 0.0273 | 0.0190 | 1,051.416 |

Mitigated

| SubCategory | 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 |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------|------------------|---------------|---------------|------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Architectural Coating | 0.7020 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5576 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0951 | 0.0000 | 5.1900e-003 | 0.0000 | 0.0657 | 0.0657 | 0.0657 | 0.0650 | 0.0650 | 0.0650 | 0.0000 | 1,037.647 | 1,037.647 | 0.0199 | 0.0190 | 1,043.962 |
| Landscaping | 0.1281 | 0.0477 | 4.0931 | 2.1000e-004 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | 0.0222 | | 7.2996 | 7.2996 | 7.3600e-003 | | 7.4543 |
| Total | 4.4829 | 0.0477 | 4.0983 | 2.1000e-004 | 0.0879 | 0.0879 | 0.0879 | 0.0872 | 0.0872 | 0.0872 | 0.0000 | 1,044.946 | 1,044.946 | 0.0273 | 0.0190 | 1,051.416 |

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|-------------------------|--------|-----------|-----------|-------------|-------------|-----------|
| Rough Terrain Forklifts | 3 | 7.00 | 169 | 160 | 0.40 | CNG |

UnMitigated/Mitigated

| Equipment Type | 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 |
|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|-----------|------------------|---------------|-----|-------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Rough Terrain Forklifts | 0.5790 | 8.6407 | 8.5355 | 0.0145 | 0.3337 | 0.3337 | 0.3337 | 0.3070 | 0.3070 | 0.3070 | 1,482.293 | 0 | 1,482.293 | 0.4542 | | 1,491.8306 |
| Total | 0.5790 | 8.6407 | 8.5355 | 0.0145 | 0.3337 | 0.3337 | 0.3337 | 0.3070 | 0.3070 | 0.3070 | 1,482.293 | 0 | 1,482.293 | 0.4542 | | 1,491.8306 |

10.0 Vegetation

City of Newport Beach
 Back Bay EIR
 Operational Emissions for Boat Traffic

Estimated Boat Lift Hours of Operation

| | Summer Weekend Day (Jun-Sep) | Summer Weekday (Jun-Sep) | Non-Summer Weekend Day (Oct-May) | Non-Summer Weekday (Oct-May) |
|--|------------------------------------|--------------------------------|--|------------------------------------|
| Minutes per Launch/Pickup ¹ | 6 | 6 | 6 | 6 |
| Minutes per Rack Return/Retrieval ¹ | 4 | 4 | 4 | 4 |
| Minutes per Round Trip ¹ | 5 | 5 | 5 | 5 |

| | | | | |
|---------------------------------------|---|---|---|---|
| Launch/Pickup Engines ² | 1 | 1 | 1 | 1 |
| Return/Retrieval Engines ² | 1 | 1 | 1 | 1 |
| Trip Engines ² | 2 | 2 | 2 | 2 |

| | | | | |
|---------------------------------------|------|------|------|------|
| Launch/Pickup engine-hours per Day | 4.20 | 1.40 | 2.80 | 1.40 |
| Return/Retrieval engine-hours per Day | 2.80 | 0.93 | 1.87 | 0.93 |
| Trip engine-hours per Day | 7.00 | 2.33 | 4.67 | 2.33 |

| | Total Engine- Hours per Year | Equivalent Max Days ³ |
|--|---------------------------------|-------------------------------------|
| Launch/Pickup engine-hours per Year | 147.00 | 121.80 |
| Return/Retrieval engine-hours per Year | 98.00 | 81.20 |
| Trip engine-hours per Year | 245.00 | 203.00 |
| | 708.40 | 472.27 |
| | 1,180.67 | 169 |

Notes:

- Based on empirical observations of boat lifts at other similar facilities: (a) 3 minutes to launch or pickup a boat in the water; (b) 2 minutes to return or retrieve a boat from the storage rack; and (c) 5 minutes traveling time for a round trip from the storage area to the water.
- Boat lift would be equipped with three engines for propulsion for the lift, lift motor, and hydraulic motor for the tilt/angle and fork width adjustments.
- Summer weekday and non-summer weekday and weekend days would have lower lift usage due to lower boat usage. The California Emissions Estimator Model (CalEEMod) does not have the option to adjust operational off-road equipment usage by day of week or time of year. Thus, in order to accurately estimate the emissions on an annual basis, the "equivalent max days" represents the number of days the boat lift would operate at maximum usage (summer weekday) that would equal the same number of operational hours given the annual variability. This value was entered into CalEEMod.

**City of Newport Beach
Back Bay EIR
Operational Emissions for Boat Traffic**

Boat Traffic Emission Factors

| Activity | Criteria Pollutant Emission Factors (lbs/boat/day) | | | | | |
|---------------------------|--|----------|----------|----------|----------|----------|
| | VOC | NOx | CO | SOx | PM10 | PM2.5 |
| Exhaust | 8.23E-02 | 5.94E-02 | 1.21E+00 | 2.40E-04 | 1.54E-02 | 1.54E-02 |
| Evaporative - Operational | 3.67E-02 | - | - | - | - | - |
| Evaporative - Storage | 3.34E-02 | - | - | - | - | - |

Source: CARB, OFFROAD2011. Emission factors are based on the pleasure craft category, year 2016, annual.

Estimated Number of Boats

| | Total Boat Storage Capacity | Number of Boats Operating | | | | Total Number of Boats Operating per Year |
|----------------------|-----------------------------|---------------------------|----------------|------------------------|--------------------|--|
| | | Summer Weekend Day | Summer Weekday | Non-Summer Weekend Day | Non-Summer Weekday | |
| Number of Boats | 140 | 42 | 14 | 28 | 14 | - |
| Number of Days | - | 35 | 87 | 70 | 174 | - |
| Total Boats per Year | - | 1470 | 1218 | 1960 | 2436 | 7084 |

Boat Traffic Emissions

| | Criteria Pollutant Emissions (lbs/max day) | | | | | |
|---------------------------|--|------|-------|------|------|-------|
| | VOC | NOx | CO | SOx | PM10 | PM2.5 |
| Exhaust | 3.46 | 2.50 | 50.74 | 0.01 | 0.65 | 0.65 |
| Evaporative - Operational | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Evaporative - Storage | 4.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 9.68 | 2.50 | 50.74 | 0.01 | 0.65 | 0.65 |

Newport Back Bay Landing - Operations with Mitigation South Coast AQMD Air District, Mitigation Report

Operational Percent Reduction Summary

| Category | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|------|------|------|-------|--------------|---------------|----------|-----------|-----------|-------|-------|-------|
| Percent Reduction | | | | | | | | | | | | |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Consumer Products | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.72 | 10.72 | 10.71 | 10.51 | 10.72 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mobile | 8.85 | 8.53 | 6.72 | 10.34 | 9.86 | 9.86 | 0.00 | 10.34 | 10.34 | 9.40 | 0.00 | 10.34 |
| Natural Gas | 7.46 | 7.51 | 6.87 | 7.53 | 7.57 | 7.57 | 0.00 | 7.57 | 7.57 | 7.45 | 7.42 | 7.57 |
| Water Indoor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 18.20 | 14.57 | 14.77 | 18.19 | 18.02 | 15.26 |
| Water Outdoor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Operational Mobile Mitigation

Project Setting: Low Density Suburban

| Mitigation | Category | Measure | % Reduction | Input Value 1 | Input Value 2 | Input Value 3 |
|------------|----------|-------------------------------------|-------------|---------------|---------------|---------------|
| Yes | Land Use | Increase Density | 0.00 | 7.74 | | 6.79 |
| Yes | Land Use | Increase Diversity | 0.30 | 0.70 | | |
| No | Land Use | Improve Walkability Design | 0.00 | 0.00 | | |
| No | Land Use | Improve Destination Accessibility | 0.00 | 0.00 | | |
| Yes | Land Use | Increase Transit Accessibility | 0.21 | 0.10 | | |
| No | Land Use | Integrate Below Market Rate Housing | 0.00 | 0.00 | | |

| Land Use | Land Use SubTotal | 0.05 | Project Site and Connecting Off-Site |
|----------|--|------|--------------------------------------|
| Yes | Neighborhood Enhancements | 2.00 | Project Site and Connecting Off-Site |
| No | Neighborhood Enhancements | 0.01 | |
| No | Neighborhood Enhancements | 0.02 | |
| Yes | Parking Policy Pricing | 0.00 | 0.00 |
| No | Parking Policy Pricing | 0.00 | 0.00 |
| No | Parking Policy Pricing | 0.00 | 0.00 |
| | Parking Policy Pricing Subtotal | 0.00 | |
| No | Transit Improvements | 0.00 | 0.00 |
| No | Transit Improvements | 0.00 | 0.00 |
| No | Transit Improvements | 0.00 | 0.00 |
| | Transit Improvements Subtotal | 0.00 | 0.00 |
| | Land Use and Site Enhancement Subtotal | 0.07 | |
| Yes | Commute | 5.20 | 20.00 Voluntary |
| No | Commute | | 0.00 |
| No | Commute | 3.00 | 0.00 |
| No | Commute | | 0.00 |
| No | Commute | 0.00 | |
| | Market Commute Trip Reduction Option | 0.00 | 0.00 |
| No | Commute | 0.00 | 2.00 |
| No | Commute | 5.00 | 0.00 |
| | Commute Subtotal | 0.05 | |
| No | School Trip | 0.00 | 0.00 |
| | Total VMT Reduction | 0.12 | |

Area Mitigation

| Measure Implemented | Mitigation Measure | Input Value |
|---------------------|--------------------|-------------|
|---------------------|--------------------|-------------|

| | | |
|-----|--|--------|
| Yes | Only Natural Gas Hearth | |
| No | No Hearth | |
| No | Use Low VOC Cleaning Supplies | |
| No | Use Low VOC Paint (Residential Interior) | 50.00 |
| No | Use Low VOC Paint (Residential Exterior) | 100.00 |
| No | Use Low VOC Paint (Non-residential Interior) | 250.00 |
| No | Use Low VOC Paint (Non-residential Exterior) | 250.00 |
| No | % Electric Lawnmower | 0.00 |
| No | % Electric Leafblower | 0.00 |
| No | % Electric Chainsaw | 0.00 |

Energy Mitigation Measures

| Measure Implemented | Mitigation Measure | Input Value 1 | Input Value 2 |
|---------------------|----------------------------------|---------------|---------------|
| Yes | Exceed Title 24 | 15.00 | |
| Yes | Install High Efficiency Lighting | 17.00 | |
| No | On-site Renewable | 0.00 | 0.00 |

| Appliance Type | Land Use Subtype | % Improvement |
|----------------|--------------------|---------------|
| ClothWasher | Condo/Townhouse | 30.00 |
| DishWasher | Condo/Townhouse | 15.00 |
| DishWasher | Quality Restaurant | 15.00 |
| Fan | Condo/Townhouse | 50.00 |
| Refrigerator | Condo/Townhouse | 15.00 |
| Refrigerator | Quality Restaurant | 15.00 |

Water Mitigation Measures

| Measure Implemented | Mitigation Measure | Input Value 1 | Input Value 2 |
|---------------------|--------------------------------------|---------------|---------------|
| No | Apply Water Conservation on Strategy | 0.00 | 0.00 |
| No | Use Reclaimed Water | 0.00 | 0.00 |
| No | Use Grey Water | 0.00 | |

| | | |
|-----|--|-------|
| Yes | Install low-flow bathroom faucet | 20.00 |
| Yes | Install low-flow Kitchen faucet | 20.00 |
| Yes | Install low-flow Toilet | 20.00 |
| Yes | Install low-flow Shower | 20.00 |
| No | Turf Reduction | 0.00 |
| Yes | Use Water Efficient Irrigation Systems | 6.10 |
| No | Water Efficient Landscape | 0.00 |

Solid Waste Mitigation

| Mitigation Measures | Input Value |
|---|-------------|
| Institute Recycling and Composting Services | |
| Percent Reduction in Waste Disposed | |