

**Parenthetical CALEEMOD Assumptions
For: Park Avenue Bridge Replacement Project
Date: July 2014**

CONSTRUCTION

Demolition (2016)

- Demolition of existing Park Avenue Bridge structure, including 600 tons of demolished material.
- 22 days.

Equipment:

Quantity	Type	Hours of Daily Operation
1	Excavators	6
1	Rubber Tired Dozers	4
1	Rubber Tired Loader	6
1	Trencher	8
1	Tractors/Loaders/Backhoes	8
1	Bore/Drill Rigs	8
1	Concrete/Industrial Saws	8
1	Cranes	4
1	Other Construction Equipment	4

Building Construction (2016)

- 442 days.

Equipment:

Quantity	Type	Hours of Daily Operation
2	Bore/Drill Rigs	6
2	Concrete/Industrial Saws	8
1	Crane	4
1	Excavator	6
1	Trencher	4
1	Other Construction Equipment	4
1	Rubber Tired Loader	6
1	Rubber Tired Dozer	6
1	Tractors/Loaders/Backhoes	6

Grading (2016)

- 270 cubic yards of balanced cut and fill.
- 27 cubic yards of soil import/export.

- 15 days.

Equipment:

Quantity	Type	Hours of Daily Operation
1	Grader	8
1	Off-Highway Truck	2
1	Rubber Tired Loader	6
2	Tractors/Loaders/Backhoes	6

Paving (2016-2017)

- 15 days.

Equipment:

Quantity	Type	Hours of Daily Operation
1	Paver	7
4	Cement and Mortar Mixers	6
1	Rollers	7
1	Tractors/Loaders/Backhoes	7

Park Avenue Bridge Replacement Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.00		0.00		0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
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 -

Land Use -

Construction Phase - Per AQ construction questionnaire

Off-road Equipment - Per AQ construction Questionnaire

Off-road Equipment - Per AQ Construction Questionnaire

Off-road Equipment - Per AQ Construction Questionnaire

Off-road Equipment - Per AQ Construction Questionnaire

Off-road Equipment -

Trips and VMT - Per AQ Construction Questionnaire

Demolition - Per AQ Construction Questionnaire

Grading - AQ Construction questionnaire

Construction Off-road Equipment Mitigation - Standard construction mitigation

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	0.00	217.00
tblConstructionPhase	NumDays	0.00	22.00
tblConstructionPhase	NumDays	0.00	15.00
tblConstructionPhase	NumDays	0.00	15.00
tblGrading	AcresOfGrading	7.50	0.45
tblGrading	MaterialExported	0.00	27.00
tblGrading	MaterialImported	0.00	27.00
tblOffRoadEquipment	HorsePower	205.00	97.00
tblOffRoadEquipment	HorsePower	205.00	89.00
tblOffRoadEquipment	HorsePower	81.00	97.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	LoadFactor	0.50	0.37
tblOffRoadEquipment	LoadFactor	0.50	0.20
tblOffRoadEquipment	LoadFactor	0.73	0.37
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	1.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripLength	20.00	37.00

tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	37.00
tblTripsAndVMT	HaulingTripNumber	59.00	40.00
tblTripsAndVMT	HaulingTripNumber	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	3.00	30.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	3.9973	40.6154	27.1923	0.0422	0.8993	2.2436	3.1429	0.1726	2.0919	2.2645	0.0000	4,256.4324	4,256.4324	1.0234	0.0000	4,277.9230
2017	1.0975	9.9076	8.1445	0.0135	0.2012	0.6032	0.8044	0.0534	0.5584	0.6118	0.0000	1,265.2679	1,265.2679	0.3057	0.0000	1,271.6882
Total	5.0948	50.5230	35.3368	0.0557	1.1005	2.8468	3.9473	0.2259	2.6504	2.8763	0.0000	5,521.7002	5,521.7002	1.3291	0.0000	5,549.6113

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	3.9973	40.6154	27.1923	0.0422	0.4622	2.2436	2.7059	0.0999	2.0919	2.1918	0.0000	4,256.4324	4,256.4324	1.0234	0.0000	4,277.9230

2017	1.0975	9.9076	8.1445	0.0135	0.1557	0.6032	0.7589	0.0422	0.5584	0.6006	0.0000	1,265.267 9	1,265.267 9	0.3057	0.0000	1,271.688 2
Total	5.0948	50.5230	35.3368	0.0557	0.6179	2.8468	3.4647	0.1421	2.6504	2.7924	0.0000	5,521.700 2	5,521.700 2	1.3291	0.0000	5,549.611 3

	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	0.00	0.00	0.00	0.00	43.85	0.00	12.22	37.13	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1/1/2016	2/1/2016	5	22	
2	Building Construction	Building Construction	2/2/2016	11/30/2016	5	217	
3	Grading	Grading	12/1/2016	12/21/2016	5	15	
4	Paving	Paving	12/22/2016	1/11/2017	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.45

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Bore/Drill Rigs	1	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	1	4.00	226	0.29
Demolition	Excavators	1	6.00	162	0.38
Demolition	Other Construction Equipment	1	4.00	171	0.42
Demolition	Rubber Tired Dozers	1	4.00	255	0.40
Demolition	Rubber Tired Loaders	1	6.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Trenchers	1	8.00	80	0.50
Building Construction	Bore/Drill Rigs	2	6.00	89	0.20

Building Construction	Concrete/Industrial Saws	2	8.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Excavators	1	6.00	162	0.38
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Other Construction Equipment	1	4.00	171	0.42
Building Construction	Rubber Tired Dozers	1	6.00	255	0.40
Building Construction	Rubber Tired Loaders	1	6.00	199	0.36
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Trenchers	1	4.00	80	0.50
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Graders	1	8.00	81	0.73
Grading	Off-Highway Trucks	1	2.00	400	0.38
Grading	Rubber Tired Dozers	0	1.00	255	0.40
Grading	Rubber Tired Loaders	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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	9	23.00	0.00	40.00	14.70	6.90	37.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	30.00	14.70	6.90	37.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5836	0.0000	0.5836	0.0884	0.0000	0.0884			0.0000			0.0000
Off-Road	3.8676	39.6173	25.4469	0.0366		2.2280	2.2280		2.0775	2.0775		3,748.9331	3,748.9331	1.0094		3,770.1305
Total	3.8676	39.6173	25.4469	0.0366	0.5836	2.2280	2.8116	0.0884	2.0775	2.1659		3,748.9331	3,748.9331	1.0094		3,770.1305

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0500	0.8950	0.4827	2.4400e-003	0.0586	0.0139	0.0724	0.0160	0.0128	0.0288		246.5410	246.5410	1.6900e-003		246.5765
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	0.0798	0.1031	1.2627	3.1200e-003	0.2571	1.8000e-003	0.2589	0.0682	1.6600e-003	0.0698		260.9584	260.9584	0.0123		261.2161
Total	0.1298	0.9981	1.7454	5.5600e-003	0.3157	0.0157	0.3313	0.0842	0.0144	0.0986		507.4993	507.4993	0.0140		507.7926

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										lb/day					
Fugitive Dust					0.2162	0.0000	0.2162	0.0327	0.0000	0.0327			0.0000			0.0000
Off-Road	3.8676	39.6173	25.4469	0.0366		2.2280	2.2280		2.0775	2.0775	0.0000	3,748.9331	3,748.9331	1.0094		3,770.1305
Total	3.8676	39.6173	25.4469	0.0366	0.2162	2.2280	2.4442	0.0327	2.0775	2.1103	0.0000	3,748.9331	3,748.9331	1.0094		3,770.1305

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										lb/day					
Hauling	0.0500	0.8950	0.4827	2.4400e-003	0.0470	0.0139	0.0609	0.0132	0.0128	0.0259		246.5410	246.5410	1.6900e-003		246.5765
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	0.0798	0.1031	1.2627	3.1200e-003	0.1990	1.8000e-003	0.2008	0.0539	1.6600e-003	0.0556		260.9584	260.9584	0.0123		261.2161
Total	0.1298	0.9981	1.7454	5.5600e-003	0.2460	0.0157	0.2616	0.0671	0.0144	0.0815		507.4993	507.4993	0.0140		507.7926

3.3 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	3.7475	38.8098	24.7951	0.0350		2.1050	2.1050		1.9703	1.9703		3,568.195 5	3,568.195 5	0.9289		3,587.702 6
Total	3.7475	38.8098	24.7951	0.0350		2.1050	2.1050		1.9703	1.9703		3,568.195 5	3,568.195 5	0.9289		3,587.702 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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										lb/day					
Off-Road	3.7475	38.8098	24.7951	0.0350		2.1050	2.1050		1.9703	1.9703	0.0000	3,568.195 5	3,568.195 5	0.9289		3,587.702 6
Total	3.7475	38.8098	24.7951	0.0350		2.1050	2.1050		1.9703	1.9703	0.0000	3,568.195 5	3,568.195 5	0.9289		3,587.702 6

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										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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0322	0.0000	0.0322	3.5000e-003	0.0000	3.5000e-003			0.0000			0.0000
Off-Road	2.5181	23.6576	12.8266	0.0195		1.5261	1.5261		1.4040	1.4040		2,027.1579	2,027.1579	0.6115		2,039.9986
Total	2.5181	23.6576	12.8266	0.0195	0.0322	1.5261	1.5584	3.5000e-003	1.4040	1.4075		2,027.1579	2,027.1579	0.6115		2,039.9986

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0550	0.9845	0.5310	2.6900e-003	0.1133	0.0152	0.1286	0.0296	0.0140	0.0437		271.1951	271.1951	1.8600e-003		271.2342
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	0.0451	0.0583	0.7137	1.7600e-003	0.2716	1.0200e-003	0.2727	0.0695	9.4000e-004	0.0705		147.4982	147.4982	6.9400e-003		147.6439
Total	0.1001	1.0428	1.2447	4.4500e-003	0.3850	0.0163	0.4012	0.0992	0.0150	0.1141		418.6933	418.6933	8.8000e-003		418.8780

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										lb/day					
Fugitive Dust					0.0119	0.0000	0.0119	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	2.5181	23.6576	12.8266	0.0195		1.5261	1.5261		1.4040	1.4040	0.0000	2,027.1579	2,027.1579	0.6115		2,039.9986
Total	2.5181	23.6576	12.8266	0.0195	0.0119	1.5261	1.5381	1.3000e-003	1.4040	1.4053	0.0000	2,027.1579	2,027.1579	0.6115		2,039.9986

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										lb/day					
Hauling	0.0550	0.9845	0.5310	2.6900e-003	0.0879	0.0152	0.1031	0.0234	0.0140	0.0374		271.1951	271.1951	1.8600e-003		271.2342
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	0.0451	0.0583	0.7137	1.7600e-003	0.2060	1.0200e-003	0.2070	0.0534	9.4000e-004	0.0544		147.4982	147.4982	6.9400e-003		147.6439
Total	0.1001	1.0428	1.2447	4.4500e-003	0.2939	0.0163	0.3101	0.0768	0.0150	0.0918		418.6933	418.6933	8.8000e-003		418.8780

3.5 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.583 2	1,083.583 2	0.2969		1,089.817 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0625	0.0807	0.9882	2.4400e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		204.2283	204.2283	9.6000e-003		204.4300
Total	0.0625	0.0807	0.9882	2.4400e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		204.2283	204.2283	9.6000e-003		204.4300

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
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Category	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5

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										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	0.0625	0.0807	0.9882	2.4400e-003	0.1557	1.4100e-003	0.1571	0.0422	1.3000e-003	0.0435		204.2283	204.2283	9.6000e-003		204.4300
Total	0.0625	0.0807	0.9882	2.4400e-003	0.1557	1.4100e-003	0.1571	0.0422	1.3000e-003	0.0435		204.2283	204.2283	9.6000e-003		204.4300

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572		1,068.936 6	1,068.936 6	0.2968		1,075.169 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572		1,068.936 6	1,068.936 6	0.2968		1,075.169 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0569	0.0733	0.9013	2.4400e-003	0.2012	1.3700e-003	0.2026	0.0534	1.2700e-003	0.0546		196.3312	196.3312	8.9100e-003		196.5184
Total	0.0569	0.0733	0.9013	2.4400e-003	0.2012	1.3700e-003	0.2026	0.0534	1.2700e-003	0.0546		196.3312	196.3312	8.9100e-003		196.5184

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										lb/day					
Off-Road	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572	0.0000	1,068.9366	1,068.9366	0.2968		1,075.1698
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572	0.0000	1,068.9366	1,068.9366	0.2968		1,075.1698

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
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Category	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	0.0569	0.0733	0.9013	2.4400e-003	0.1557	1.3700e-003	0.1571	0.0422	1.2700e-003	0.0435		196.3312	196.3312	8.9100e-003		196.5184
Total	0.0569	0.0733	0.9013	2.4400e-003	0.1557	1.3700e-003	0.1571	0.0422	1.2700e-003	0.0435		196.3312	196.3312	8.9100e-003		196.5184

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510449	0.057012	0.191854	0.151889	0.041459	0.005887	0.015572	0.014818	0.001440	0.002145	0.004716	0.000509	0.002251

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	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
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	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
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	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										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

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
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10.0 Vegetation

Park Avenue Bridge Replacement Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.00		0.00		0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
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 -

Land Use -

Construction Phase - Per AQ construction questionnaire

Off-road Equipment - Per AQ construction Questionnaire

Off-road Equipment - Per AQ Construction Questionnaire

Off-road Equipment - Per AQ Construction Questionnaire

Off-road Equipment - Per AQ Construction Questionnaire

Off-road Equipment -

Trips and VMT - Per AQ Construction Questionnaire

Demolition - Per AQ Construction Questionnaire

Grading - AQ Construction questionnaire

Construction Off-road Equipment Mitigation - Standard construction mitigation

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	0.00	217.00
tblConstructionPhase	NumDays	0.00	22.00
tblConstructionPhase	NumDays	0.00	15.00
tblConstructionPhase	NumDays	0.00	15.00
tblGrading	AcresOfGrading	7.50	0.45
tblGrading	MaterialExported	0.00	27.00
tblGrading	MaterialImported	0.00	27.00
tblOffRoadEquipment	HorsePower	205.00	97.00
tblOffRoadEquipment	HorsePower	205.00	89.00
tblOffRoadEquipment	HorsePower	81.00	97.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	LoadFactor	0.50	0.37
tblOffRoadEquipment	LoadFactor	0.50	0.20
tblOffRoadEquipment	LoadFactor	0.73	0.37
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	1.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripLength	20.00	37.00

tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	37.00
tblTripsAndVMT	HaulingTripNumber	59.00	40.00
tblTripsAndVMT	HaulingTripNumber	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	3.00	30.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	4.0038	40.6580	27.1720	0.0420	0.8993	2.2437	3.1429	0.1726	2.0920	2.2645	0.0000	4,242.303 3	4,242.303 3	1.0234	0.0000	4,263.794 3
2017	1.1004	9.9149	8.0897	0.0134	0.2012	0.6032	0.8044	0.0534	0.5584	0.6118	0.0000	1,254.871 3	1,254.871 3	0.3057	0.0000	1,261.291 7
Total	5.1042	50.5729	35.2618	0.0554	1.1005	2.8468	3.9473	0.2259	2.6504	2.8763	0.0000	5,497.174 6	5,497.174 6	1.3291	0.0000	5,525.085 9

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	4.0038	40.6580	27.1720	0.0420	0.4622	2.2437	2.7059	0.0999	2.0920	2.1918	0.0000	4,242.303 3	4,242.303 3	1.0234	0.0000	4,263.794 3

2017	1.1004	9.9149	8.0897	0.0134	0.1557	0.6032	0.7589	0.0422	0.5584	0.6006	0.0000	1,254.871 3	1,254.871 3	0.3057	0.0000	1,261.291 7
Total	5.1042	50.5729	35.2618	0.0554	0.6179	2.8468	3.4647	0.1421	2.6504	2.7924	0.0000	5,497.174 6	5,497.174 6	1.3291	0.0000	5,525.085 9

	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	0.00	0.00	0.00	0.00	43.85	0.00	12.22	37.13	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1/1/2016	2/1/2016	5	22	
2	Building Construction	Building Construction	2/2/2016	11/30/2016	5	217	
3	Grading	Grading	12/1/2016	12/21/2016	5	15	
4	Paving	Paving	12/22/2016	1/11/2017	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.45

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Bore/Drill Rigs	1	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	1	4.00	226	0.29
Demolition	Excavators	1	6.00	162	0.38
Demolition	Other Construction Equipment	1	4.00	171	0.42
Demolition	Rubber Tired Dozers	1	4.00	255	0.40
Demolition	Rubber Tired Loaders	1	6.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Trenchers	1	8.00	80	0.50
Building Construction	Bore/Drill Rigs	2	6.00	89	0.20

Building Construction	Concrete/Industrial Saws	2	8.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Excavators	1	6.00	162	0.38
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Other Construction Equipment	1	4.00	171	0.42
Building Construction	Rubber Tired Dozers	1	6.00	255	0.40
Building Construction	Rubber Tired Loaders	1	6.00	199	0.36
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Trenchers	1	4.00	80	0.50
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Graders	1	8.00	81	0.73
Grading	Off-Highway Trucks	1	2.00	400	0.38
Grading	Rubber Tired Dozers	0	1.00	255	0.40
Grading	Rubber Tired Loaders	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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	9	23.00	0.00	40.00	14.70	6.90	37.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	30.00	14.70	6.90	37.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5836	0.0000	0.5836	0.0884	0.0000	0.0884			0.0000			0.0000
Off-Road	3.8676	39.6173	25.4469	0.0366		2.2280	2.2280		2.0775	2.0775		3,748.9331	3,748.9331	1.0094		3,770.1305
Total	3.8676	39.6173	25.4469	0.0366	0.5836	2.2280	2.8116	0.0884	2.0775	2.1659		3,748.9331	3,748.9331	1.0094		3,770.1305

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0523	0.9273	0.5358	2.4400e-003	0.0586	0.0139	0.0724	0.0160	0.0128	0.0288		246.2197	246.2197	1.7100e-003		246.2555
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	0.0840	0.1134	1.1893	2.9500e-003	0.2571	1.8000e-003	0.2589	0.0682	1.6600e-003	0.0698		247.1506	247.1506	0.0123		247.4083
Total	0.1363	1.0407	1.7251	5.3900e-003	0.3157	0.0157	0.3313	0.0842	0.0144	0.0986		493.3703	493.3703	0.0140		493.6638

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										lb/day					
Fugitive Dust					0.2162	0.0000	0.2162	0.0327	0.0000	0.0327			0.0000			0.0000
Off-Road	3.8676	39.6173	25.4469	0.0366		2.2280	2.2280		2.0775	2.0775	0.0000	3,748.9331	3,748.9331	1.0094		3,770.1305
Total	3.8676	39.6173	25.4469	0.0366	0.2162	2.2280	2.4442	0.0327	2.0775	2.1103	0.0000	3,748.9331	3,748.9331	1.0094		3,770.1305

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										lb/day					
Hauling	0.0523	0.9273	0.5358	2.4400e-003	0.0470	0.0139	0.0609	0.0132	0.0128	0.0260		246.2197	246.2197	1.7100e-003		246.2555
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	0.0840	0.1134	1.1893	2.9500e-003	0.1990	1.8000e-003	0.2008	0.0539	1.6600e-003	0.0556		247.1506	247.1506	0.0123		247.4083
Total	0.1363	1.0407	1.7251	5.3900e-003	0.2460	0.0157	0.2616	0.0671	0.0144	0.0815		493.3703	493.3703	0.0140		493.6638

3.3 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	3.7475	38.8098	24.7951	0.0350		2.1050	2.1050		1.9703	1.9703		3,568.1955	3,568.1955	0.9289		3,587.7026
Total	3.7475	38.8098	24.7951	0.0350		2.1050	2.1050		1.9703	1.9703		3,568.1955	3,568.1955	0.9289		3,587.7026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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										lb/day					
Off-Road	3.7475	38.8098	24.7951	0.0350		2.1050	2.1050		1.9703	1.9703	0.0000	3,568.1955	3,568.1955	0.9289		3,587.7026
Total	3.7475	38.8098	24.7951	0.0350		2.1050	2.1050		1.9703	1.9703	0.0000	3,568.1955	3,568.1955	0.9289		3,587.7026

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										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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0322	0.0000	0.0322	3.5000e-003	0.0000	3.5000e-003			0.0000			0.0000
Off-Road	2.5181	23.6576	12.8266	0.0195		1.5261	1.5261		1.4040	1.4040		2,027.1579	2,027.1579	0.6115		2,039.9986
Total	2.5181	23.6576	12.8266	0.0195	0.0322	1.5261	1.5584	3.5000e-003	1.4040	1.4075		2,027.1579	2,027.1579	0.6115		2,039.9986

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0575	1.0201	0.5894	2.6900e-003	0.1133	0.0153	0.1286	0.0296	0.0140	0.0437		270.8416	270.8416	1.8800e-003		270.8811
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	0.0475	0.0641	0.6722	1.6700e-003	0.2716	1.0200e-003	0.2727	0.0695	9.4000e-004	0.0705		139.6938	139.6938	6.9400e-003		139.8395
Total	0.1050	1.0842	1.2616	4.3600e-003	0.3850	0.0163	0.4013	0.0992	0.0150	0.1142		410.5355	410.5355	8.8200e-003		410.7205

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										lb/day					
Fugitive Dust					0.0119	0.0000	0.0119	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	2.5181	23.6576	12.8266	0.0195		1.5261	1.5261		1.4040	1.4040	0.0000	2,027.1579	2,027.1579	0.6115		2,039.9986
Total	2.5181	23.6576	12.8266	0.0195	0.0119	1.5261	1.5381	1.3000e-003	1.4040	1.4053	0.0000	2,027.1579	2,027.1579	0.6115		2,039.9986

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										lb/day					
Hauling	0.0575	1.0201	0.5894	2.6900e-003	0.0879	0.0153	0.1032	0.0234	0.0140	0.0374		270.8416	270.8416	1.8800e-003		270.8811
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	0.0475	0.0641	0.6722	1.6700e-003	0.2060	1.0200e-003	0.2070	0.0534	9.4000e-004	0.0544		139.6938	139.6938	6.9400e-003		139.8395
Total	0.1050	1.0842	1.2616	4.3600e-003	0.2939	0.0163	0.3101	0.0768	0.0150	0.0918		410.5355	410.5355	8.8200e-003		410.7205

3.5 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0657	0.0887	0.9308	2.3100e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		193.4222	193.4222	9.6000e-003		193.6239
Total	0.0657	0.0887	0.9308	2.3100e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		193.4222	193.4222	9.6000e-003		193.6239

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
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Category	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5

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										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	0.0657	0.0887	0.9308	2.3100e-003	0.1557	1.4100e-003	0.1571	0.0422	1.3000e-003	0.0435		193.4222	193.4222	9.6000e-003		193.6239
Total	0.0657	0.0887	0.9308	2.3100e-003	0.1557	1.4100e-003	0.1571	0.0422	1.3000e-003	0.0435		193.4222	193.4222	9.6000e-003		193.6239

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572		1,068.936 6	1,068.936 6	0.2968		1,075.169 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572		1,068.936 6	1,068.936 6	0.2968		1,075.169 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0598	0.0806	0.8465	2.3100e-003	0.2012	1.3700e-003	0.2026	0.0534	1.2700e-003	0.0546		185.9347	185.9347	8.9100e-003		186.1218
Total	0.0598	0.0806	0.8465	2.3100e-003	0.2012	1.3700e-003	0.2026	0.0534	1.2700e-003	0.0546		185.9347	185.9347	8.9100e-003		186.1218

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										lb/day					
Off-Road	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572	0.0000	1,068.9366	1,068.9366	0.2968		1,075.1698
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572	0.0000	1,068.9366	1,068.9366	0.2968		1,075.1698

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
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Category	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	0.0598	0.0806	0.8465	2.3100e-003	0.1557	1.3700e-003	0.1571	0.0422	1.2700e-003	0.0435		185.9347	185.9347	8.9100e-003		186.1218
Total	0.0598	0.0806	0.8465	2.3100e-003	0.1557	1.3700e-003	0.1571	0.0422	1.2700e-003	0.0435		185.9347	185.9347	8.9100e-003		186.1218

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510449	0.057012	0.191854	0.151889	0.041459	0.005887	0.015572	0.014818	0.001440	0.002145	0.004716	0.000509	0.002251

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	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
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	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
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	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										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

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
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10.0 Vegetation

Park Avenue Bridge Replacement Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.00		0.00		0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
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 -

Land Use -

Construction Phase - Per AQ construction questionnaire

Off-road Equipment - Per AQ construction Questionnaire

Off-road Equipment - Per AQ Construction Questionnaire

Off-road Equipment - Per AQ Construction Questionnaire

Off-road Equipment - Per AQ Construction Questionnaire

Off-road Equipment -

Trips and VMT - Per AQ Construction Questionnaire

Demolition - Per AQ Construction Questionnaire

Grading - AQ Construction questionnaire

Construction Off-road Equipment Mitigation - Standard construction mitigation

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	0.00	217.00
tblConstructionPhase	NumDays	0.00	22.00
tblConstructionPhase	NumDays	0.00	15.00
tblConstructionPhase	NumDays	0.00	15.00
tblGrading	AcresOfGrading	7.50	0.45
tblGrading	MaterialExported	0.00	27.00
tblGrading	MaterialImported	0.00	27.00
tblOffRoadEquipment	HorsePower	205.00	97.00
tblOffRoadEquipment	HorsePower	205.00	89.00
tblOffRoadEquipment	HorsePower	81.00	97.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	LoadFactor	0.50	0.37
tblOffRoadEquipment	LoadFactor	0.50	0.20
tblOffRoadEquipment	LoadFactor	0.73	0.37
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	1.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripLength	20.00	37.00

tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	37.00
tblTripsAndVMT	HaulingTripNumber	59.00	40.00
tblTripsAndVMT	HaulingTripNumber	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	3.00	30.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.4744	4.8815	3.1238	4.4900e-003	0.0136	0.2670	0.2806	2.8200e-003	0.2496	0.2524	0.0000	414.2544	414.2544	0.1068	0.0000	416.4980
2017	4.3900e-003	0.0397	0.0324	5.0000e-005	7.9000e-004	2.4100e-003	3.2000e-003	2.1000e-004	2.2300e-003	2.4400e-003	0.0000	4.5638	4.5638	1.1100e-003	0.0000	4.5871
Total	0.4788	4.9212	3.1562	4.5400e-003	0.0144	0.2694	0.2838	3.0300e-003	0.2518	0.2548	0.0000	418.8181	418.8181	0.1080	0.0000	421.0850

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.4744	4.8815	3.1238	4.4900e-003	7.8300e-003	0.2670	0.2748	1.8100e-003	0.2496	0.2514	0.0000	414.2539	414.2539	0.1068	0.0000	416.4975

2017	4.3900e-003	0.0397	0.0324	5.0000e-005	6.1000e-004	2.4100e-003	3.0200e-003	1.7000e-004	2.2300e-003	2.4000e-003	0.0000	4.5638	4.5638	1.1100e-003	0.0000	4.5871
Total	0.4788	4.9212	3.1562	4.5400e-003	8.4400e-003	0.2694	0.2778	1.9800e-003	0.2518	0.2538	0.0000	418.8177	418.8177	0.1080	0.0000	421.0845

	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	0.00	0.00	0.00	0.00	41.35	0.00	2.10	34.65	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

[illegible]

Mitigated Operational

[illegible]

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1/1/2016	2/1/2016	5	22	
2	Building Construction	Building Construction	2/2/2016	11/30/2016	5	217	
3	Grading	Grading	12/1/2016	12/21/2016	5	15	
4	Paving	Paving	12/22/2016	1/11/2017	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.45

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Bore/Drill Rigs	1	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	1	4.00	226	0.29
Demolition	Excavators	1	6.00	162	0.38
Demolition	Other Construction Equipment	1	4.00	171	0.42
Demolition	Rubber Tired Dozers	1	4.00	255	0.40
Demolition	Rubber Tired Loaders	1	6.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Trenchers	1	8.00	80	0.50
Building Construction	Bore/Drill Rigs	2	6.00	89	0.20

Building Construction	Concrete/Industrial Saws	2	8.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Excavators	1	6.00	162	0.38
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Other Construction Equipment	1	4.00	171	0.42
Building Construction	Rubber Tired Dozers	1	6.00	255	0.40
Building Construction	Rubber Tired Loaders	1	6.00	199	0.36
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Trenchers	1	4.00	80	0.50
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Graders	1	8.00	81	0.73
Grading	Off-Highway Trucks	1	2.00	400	0.38
Grading	Rubber Tired Dozers	0	1.00	255	0.40
Grading	Rubber Tired Loaders	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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	9	23.00	0.00	40.00	14.70	6.90	37.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	30.00	14.70	6.90	37.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.4200e-003	0.0000	6.4200e-003	9.7000e-004	0.0000	9.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0425	0.4358	0.2799	4.0000e-004		0.0245	0.0245		0.0229	0.0229	0.0000	37.4107	37.4107	0.0101	0.0000	37.6223
Total	0.0425	0.4358	0.2799	4.0000e-004	6.4200e-003	0.0245	0.0309	9.7000e-004	0.0229	0.0238	0.0000	37.4107	37.4107	0.0101	0.0000	37.6223

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0104	5.7600e-003	3.0000e-005	6.3000e-004	1.5000e-004	7.9000e-004	1.7000e-004	1.4000e-004	3.1000e-004	0.0000	2.4589	2.4589	2.0000e-005	0.0000	2.4593
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	1.2800e-003	0.0134	3.0000e-005	2.7800e-003	2.0000e-005	2.8000e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.5035	2.5035	1.2000e-004	0.0000	2.5060
Total	1.4300e-003	0.0117	0.0191	6.0000e-005	3.4100e-003	1.7000e-004	3.5900e-003	9.1000e-004	1.6000e-004	1.0700e-003	0.0000	4.9624	4.9624	1.4000e-004	0.0000	4.9653

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3800e-003	0.0000	2.3800e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0425	0.4358	0.2799	4.0000e-004		0.0245	0.0245		0.0229	0.0229	0.0000	37.4107	37.4107	0.0101	0.0000	37.6222
Total	0.0425	0.4358	0.2799	4.0000e-004	2.3800e-003	0.0245	0.0269	3.6000e-004	0.0229	0.0232	0.0000	37.4107	37.4107	0.0101	0.0000	37.6222

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0104	5.7600e-003	3.0000e-005	5.1000e-004	1.5000e-004	6.6000e-004	1.4000e-004	1.4000e-004	2.8000e-004	0.0000	2.4589	2.4589	2.0000e-005	0.0000	2.4593
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	1.2800e-003	0.0134	3.0000e-005	2.1500e-003	2.0000e-005	2.1700e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.5035	2.5035	1.2000e-004	0.0000	2.5060
Total	1.4300e-003	0.0117	0.0191	6.0000e-005	2.6600e-003	1.7000e-004	2.8300e-003	7.2000e-004	1.6000e-004	8.8000e-004	0.0000	4.9624	4.9624	1.4000e-004	0.0000	4.9653

3.3 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	0.4066	4.2109	2.6903	3.8000e-003		0.2284	0.2284		0.2138	0.2138	0.0000	351.2159	351.2159	0.0914	0.0000	353.1359
Total	0.4066	4.2109	2.6903	3.8000e-003		0.2284	0.2284		0.2138	0.2138	0.0000	351.2159	351.2159	0.0914	0.0000	353.1359

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4066	4.2109	2.6903	3.8000e-003		0.2284	0.2284		0.2138	0.2138	0.0000	351.2154	351.2154	0.0914	0.0000	353.1355
Total	0.4066	4.2109	2.6903	3.8000e-003		0.2284	0.2284		0.2138	0.2138	0.0000	351.2154	351.2154	0.0914	0.0000	353.1355

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0189	0.1774	0.0962	1.5000e-004		0.0115	0.0115		0.0105	0.0105	0.0000	13.7926	13.7926	4.1600e-003	0.0000	13.8799
Total	0.0189	0.1774	0.0962	1.5000e-004	2.4000e-004	0.0115	0.0117	3.0000e-005	0.0105	0.0106	0.0000	13.7926	13.7926	4.1600e-003	0.0000	13.8799

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	4.2000e-004	7.7800e-003	4.3200e-003	2.0000e-005	8.3000e-004	1.1000e-004	9.5000e-004	2.2000e-004	1.1000e-004	3.2000e-004	0.0000	1.8442	1.8442	1.0000e-005	0.0000	1.8444
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	4.9000e-004	5.1500e-003	1.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	0.9648	0.9648	5.0000e-005	0.0000	0.9658
Total	7.5000e-004	8.2700e-003	9.4700e-003	3.0000e-005	2.8300e-003	1.2000e-004	2.9600e-003	7.3000e-004	1.2000e-004	8.4000e-004	0.0000	2.8090	2.8090	6.0000e-005	0.0000	2.8102

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.0000e-005	0.0000	9.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0189	0.1774	0.0962	1.5000e-004		0.0115	0.0115		0.0105	0.0105	0.0000	13.7925	13.7925	4.1600e-003	0.0000	13.8799
Total	0.0189	0.1774	0.0962	1.5000e-004	9.0000e-005	0.0115	0.0115	1.0000e-005	0.0105	0.0105	0.0000	13.7925	13.7925	4.1600e-003	0.0000	13.8799

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2000e-004	7.7800e-003	4.3200e-003	2.0000e-005	6.5000e-004	1.1000e-004	7.6000e-004	1.7000e-004	1.1000e-004	2.8000e-004	0.0000	1.8442	1.8442	1.0000e-005	0.0000	1.8444
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	4.9000e-004	5.1500e-003	1.0000e-005	1.5200e-003	1.0000e-005	1.5200e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	0.9648	0.9648	5.0000e-005	0.0000	0.9658
Total	7.5000e-004	8.2700e-003	9.4700e-003	3.0000e-005	2.1700e-003	1.2000e-004	2.2800e-003	5.6000e-004	1.2000e-004	6.8000e-004	0.0000	2.8090	2.8090	6.0000e-005	0.0000	2.8102

3.5 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9200e-003	0.0372	0.0255	4.0000e-005		2.3100e-003	2.3100e-003		2.1400e-003	2.1400e-003	0.0000	3.4405	3.4405	9.4000e-004	0.0000	3.4603
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9200e-003	0.0372	0.0255	4.0000e-005		2.3100e-003	2.3100e-003		2.1400e-003	2.1400e-003	0.0000	3.4405	3.4405	9.4000e-004	0.0000	3.4603

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.6234	0.6234	3.0000e-005	0.0000	0.6240
Total	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.6234	0.6234	3.0000e-005	0.0000	0.6240

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
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Category	tons/yr									MT/yr						
Off-Road	3.9200e-003	0.0372	0.0255	4.0000e-005		2.3100e-003	2.3100e-003		2.1400e-003	2.1400e-003	0.0000	3.4405	3.4405	9.4000e-004	0.0000	3.4603
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9200e-003	0.0372	0.0255	4.0000e-005		2.3100e-003	2.3100e-003		2.1400e-003	2.1400e-003	0.0000	3.4405	3.4405	9.4000e-004	0.0000	3.4603

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.4000e-004	0.0000	5.4000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.6234	0.6234	3.0000e-005	0.0000	0.6240
Total	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.4000e-004	0.0000	5.4000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.6234	0.6234	3.0000e-005	0.0000	0.6240

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1600e-003	0.0393	0.0290	4.0000e-005		2.4100e-003	2.4100e-003		2.2300e-003	2.2300e-003	0.0000	3.8789	3.8789	1.0800e-003	0.0000	3.9015
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.1600e-003	0.0393	0.0290	4.0000e-005		2.4100e-003	2.4100e-003		2.2300e-003	2.2300e-003	0.0000	3.8789	3.8789	1.0800e-003	0.0000	3.9015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	3.3000e-004	3.4600e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6849	0.6849	3.0000e-005	0.0000	0.6856
Total	2.2000e-004	3.3000e-004	3.4600e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6849	0.6849	3.0000e-005	0.0000	0.6856

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1600e-003	0.0393	0.0290	4.0000e-005		2.4100e-003	2.4100e-003		2.2300e-003	2.2300e-003	0.0000	3.8789	3.8789	1.0800e-003	0.0000	3.9015
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.1600e-003	0.0393	0.0290	4.0000e-005		2.4100e-003	2.4100e-003		2.2300e-003	2.2300e-003	0.0000	3.8789	3.8789	1.0800e-003	0.0000	3.9015

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
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Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	3.3000e-004	3.4600e-003	1.0000e-005	6.1000e-004	1.0000e-005	6.2000e-004	1.7000e-004	1.0000e-005	1.7000e-004	0.0000	0.6849	0.6849	3.0000e-005	0.0000	0.6856
Total	2.2000e-004	3.3000e-004	3.4600e-003	1.0000e-005	6.1000e-004	1.0000e-005	6.2000e-004	1.7000e-004	1.0000e-005	1.7000e-004	0.0000	0.6849	0.6849	3.0000e-005	0.0000	0.6856

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510449	0.057012	0.191854	0.151889	0.041459	0.005887	0.015572	0.014818	0.001440	0.002145	0.004716	0.000509	0.002251

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					

Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

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
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10.0 Vegetation