

Appendix D

Air Quality Modeling Data

Year 1 Construction - 2018

Phase		ROG (lb/day)	NOx (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)				
Demolition	Unmitigated On-site	5.3965	55.6867	12.7486	2.6544	15.403	1.9303	2.4634	4.3937				
	Unmitigated Off-site	0.7167	18.1236	1.2499	0.0826	1.3325	0.3399	0.079	0.4189				
	Total	6.1132	73.8103	13.9985	2.737	16.7355	2.2702	2.5424	4.8126				
Site Prep	Unmitigated On-site	1.8061	20.7472	5.7996	0.9523	6.7518	2.9537	0.8761	3.8298				
	Unmitigated Off-site	0.2577	0.1462	0.3804	2.79E-03	0.3831	0.1009	2.58E-03	0.1035				
	Total	2.0638	20.8934	6.18	0.95509	7.1349	3.0546	0.87868	3.9333				
Grading	Unmitigated On-site	4.3837	51.8144	7.0353	2.2207	9.2559	2.7546	2.043	4.7977				
	Unmitigated Off-site	0.2577	0.1462	0.3804	2.79E-03	0.3831	0.1009	2.58E-03	0.1035				
	Total	4.6414	51.9606	7.4157	2.22349	9.639	2.8555	2.04558	4.9012				
Construction Totals	Maximum	6.7	73.8	14.0	3.2	16.8	5.9	2.9	8.8	265.7	0.1	0.0	267.2

2908.1

Year 2 Construction - 2019

Phase	ROG (lb/day)	NOx (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)	CO2 (MT/year)	CH4 (MT/year)	N2O (MT/year)	CO2e (MT/year)
Grading												
Unmitigated On-site	4.0849	47.3831	7.0353	2.0135	9.0487	2.7546	1.8524	4.607				
Unmitigated Off-site	0.2343	0.1287	0.3804	2.71E-03	0.3831	0.1009	2.50E-03	0.1034				
Total	4.3192	47.5118	7.4157	2.01621	9.4318	2.8555	1.8549	4.7104				
Building												
Unmitigated On-site	5.4456	47.0832	0	2.33	2.33	0	2.2036	2.2036				
Unmitigated Off-site	1.439	10.7147	2.3097	0.0809	2.3907	0.6217	0.077	0.6987				
Total	6.8846	57.7979	2.3097	2.4109	4.7207	0.6217	2.2806	2.9023				
Construction Totals												
Maximum	11.2	105.3	9.7	4.4	14.2	3.5	4.1	7.6	1261.0	0.2	0.0	1267.1

Year 3 Construction - 2020

Phase	ROG (lb/day)	NOx (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)	CO2 (MT/year)	CH4 (MT/year)	N2O (MT/year)	CO2e (MT/year)
Building												
Unmitigated On-site	4.9591	42.4338	0	2.0314	2.0314	0	1.9211	1.9211				
Unmitigated Off-site	1.28	9.8203	2.2932	0.0582	2.3514	0.6176	0.0553	0.6729				
Total	6.2391	52.2541	2.2932	2.0896	4.3828	0.6176	1.9764	2.594				
Construction Totals												
Maximum	6.2	52.3	2.3	2.1	4.4	0.6	2.0	2.6	1315.5	0.2	0.0	1321.6

Year 4 Construction - 2021

Phase	ROG (lb/day)	NOx (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)	CO2 (MT/year)	CH4 (MT/year)	N2O (MT/year)	CO2e (MT/year)
Building												
Unmitigated On-site	4.4716	37.2837	0	1.7274	1.7274	0	1.6338	1.6338				
Unmitigated Off-site	1.1598	8.9805	7.7231	0.0359	7.759	1.9504	0.0339	1.9843				
Total	5.6314	46.2642	7.7231	1.7633	9.4864	1.9504	1.6677	3.6181				
Paving												
Unmitigated On-site	0.8787	7.7422	0	0.4153	0.4153	0	0.383	0.383				
Unmitigated Off-site	0.0521	0.0267	0.0989	6.70E-04	0.0996	0.0262	6.20E-04	0.0269				
Total	0.9308	7.7689	0.0989	0.41597	0.5149	0.0262	0.38362	0.4099				
Arch Coating												
Unmitigated On-site	185.4474	4.5805	0	0.2823	0.2823	0	0.2823	0.2823				
Unmitigated Off-site	0.1162	0.0595	0.2206	1.49E-03	0.2221	0.0585	1.37E-03	0.0599				
Adjusted ROG	185.5636	4.64	0.2206	0.28379	0.5044	0.0585	0.28367	0.3422				
Total												
Construction Totals									4.4	52.0	0.0	0.0
Maximum	192.1	58.7	8.0	2.5	10.5	2.0	2.3	4.4	52.0	0.0	0.0	52.2

1215 O St - Operational - Sacramento County, Summer

1215 O St - Operational
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	397.70	1000sqft	1.00	397,700.00	0
Enclosed Parking with Elevator	20.00	Space	0.18	8,000.00	0
Parking Lot	0.80	Acre	0.80	34,848.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2021
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	534	CH4 Intensity (lb/MW hr)	0.027	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Adjusted energy intensity factors, SMUD 2020 is 33% renewable.

Land Use - Acreage and sq ft from PD

Construction Phase - Operational run only

Vehicle Trips - Trip lengths match new employee VMT from traffic study

Energy Use - 2016 Title 24 standards reduce energy consumption 5%

Energy Mitigation - From PD: 70,000 sq ft of solar arrays will generate 2 MKWh. Project designed to exceed 2016 Title 24 standards. Lighting efficiency of 16% reduction minimum from CAPCOA guidance.

Water Mitigation - All plumbing fixtures in building would be low-flow from PD. Greywater usage of 426,000 gallons/year is 6% (demand is 24 AFY)

Waste Mitigation - Recycle 50% of waste

Stationary Sources - Emergency Generators and Fire Pumps - 550 kw diesel generator converted to HP. 500 hours per year is maximum capacity of most generators.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	3.92	3.72
tblEnergyUse	T24E	5.22	4.96
tblEnergyUse	T24NG	12.48	11.86
tblLandUse	LotAcreage	9.13	1.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.027
tblProjectCharacteristics	CO2IntensityFactor	590.31	534
tblProjectCharacteristics	OperationalYear	2018	2021
tblVehicleTrips	CC_TL	5.00	0.82
tblVehicleTrips	CNW_TL	6.50	1.45
tblVehicleTrips	CW_TL	10.00	0.11

2.0 Emissions Summary

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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	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977
Energy	0.1474	1.3396	1.1252	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.464 3	1,607.464 3	0.0308	0.0295	1,617.016 7
Mobile	6.9617	15.2038	25.0036	0.0396	1.9671	0.0482	2.0153	0.5260	0.0449	0.5709		4,015.236 3	4,015.236 3	0.3508		4,024.006 5
Stationary	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	16.6523	16.5437	26.1718	0.0476	1.9671	0.1501	2.1172	0.5260	0.1469	0.6728		5,622.792 2	5,622.792 2	0.3819	0.0295	5,641.120 8

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977
Energy	0.1404	1.2762	1.0720	7.6600e-003		0.0970	0.0970		0.0970	0.0970		1,531.4494	1,531.4494	0.0294	0.0281	1,540.5501
Mobile	6.9617	15.2038	25.0036	0.0396	1.9671	0.0482	2.0153	0.5260	0.0449	0.5709		4,015.2363	4,015.2363	0.3508		4,024.0065
Stationary	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	16.6453	16.4804	26.1185	0.0473	1.9671	0.1453	2.1124	0.5260	0.1420	0.6680		5,546.7773	5,546.7773	0.3804	0.0281	5,564.6542

	ROG	NOx	CO	SO2	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	0.04	0.38	0.20	0.80	0.00	3.21	0.23	0.00	3.28	0.72	0.00	1.35	1.35	0.38	4.72	1.36

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/28/2017	4/24/2017	5	20	
2	Site Preparation	Site Preparation	4/25/2017	4/26/2017	5	2	
3	Grading	Grading	4/27/2017	5/2/2017	5	4	
4	Building Construction	Building Construction	5/3/2017	2/6/2018	5	200	
5	Paving	Paving	2/7/2018	2/20/2018	5	10	
6	Architectural Coating	Architectural Coating	2/21/2018	3/6/2018	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.98

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 596,550; Non-Residential Outdoor: 198,850; Striped Parking Area: 2,571 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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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	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	145.00	72.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	29.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404		2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404		2,421.4229	2,421.4229	0.6125		2,436.7347

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3.2 Demolition - 2017

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	0.0750	0.0436	0.5946	1.1400e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		113.1683	113.1683	4.3100e-003		113.2761
Total	0.0750	0.0436	0.5946	1.1400e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		113.1683	113.1683	4.3100e-003		113.2761

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	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347

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3.2 Demolition - 2017

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	0.0750	0.0436	0.5946	1.1400e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		113.1683	113.1683	4.3100e-003		113.2761
Total	0.0750	0.0436	0.5946	1.1400e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		113.1683	113.1683	4.3100e-003		113.2761

3.3 Site Preparation - 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					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.9297	22.2106	8.4016	0.0172		1.0451	1.0451		0.9615	0.9615		1,764.2381	1,764.2381	0.5406		1,777.7521
Total	1.9297	22.2106	8.4016	0.0172	5.7996	1.0451	6.8446	2.9537	0.9615	3.9152		1,764.2381	1,764.2381	0.5406		1,777.7521

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3.3 Site Preparation - 2017

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	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083
Total	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083

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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.9297	22.2106	8.4016	0.0172		1.0451	1.0451		0.9615	0.9615	0.0000	1,764.238 1	1,764.238 1	0.5406		1,777.752 1
Total	1.9297	22.2106	8.4016	0.0172	5.7996	1.0451	6.8446	2.9537	0.9615	3.9152	0.0000	1,764.238 1	1,764.238 1	0.5406		1,777.752 1

1215 O St - Operational - Sacramento County, Summer

3.3 Site Preparation - 2017

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	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083
Total	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083

3.4 Grading - 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					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.6023	18.2915	7.0342	0.0141		0.8738	0.8738		0.8039	0.8039		1,444.8958	1,444.8958	0.4427		1,455.9636
Total	1.6023	18.2915	7.0342	0.0141	4.9143	0.8738	5.7880	2.5256	0.8039	3.3295		1,444.8958	1,444.8958	0.4427		1,455.9636

1215 O St - Operational - Sacramento County, Summer

3.4 Grading - 2017

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	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083
Total	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083

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					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.6023	18.2915	7.0342	0.0141		0.8738	0.8738		0.8039	0.8039	0.0000	1,444.8958	1,444.8958	0.4427		1,455.9636
Total	1.6023	18.2915	7.0342	0.0141	4.9143	0.8738	5.7880	2.5256	0.8039	3.3295	0.0000	1,444.8958	1,444.8958	0.4427		1,455.9636

1215 O St - Operational - Sacramento County, Summer

3.4 Grading - 2017

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	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083
Total	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083

3.5 Building Construction - 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	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875		2,043.8641	2,043.8641	0.4298		2,054.6085
Total	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875		2,043.8641	2,043.8641	0.4298		2,054.6085

1215 O St - Operational - Sacramento County, Summer

3.5 Building Construction - 2017

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	0.4555	9.6493	3.6225	0.0183	0.4335	0.0887	0.5222	0.1248	0.0849	0.2096		1,929.105 1	1,929.105 1	0.1256		1,932.244 5
Worker	0.8365	0.4860	6.6325	0.0127	1.1030	8.4600e-003	1.1115	0.2926	7.8100e-003	0.3004		1,262.262 2	1,262.262 2	0.0481		1,263.463 8
Total	1.2920	10.1353	10.2549	0.0310	1.5365	0.0972	1.6336	0.4173	0.0927	0.5100		3,191.367 2	3,191.367 2	0.1736		3,195.708 3

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	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875	0.0000	2,043.864 1	2,043.864 1	0.4298		2,054.608 5
Total	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875	0.0000	2,043.864 1	2,043.864 1	0.4298		2,054.608 5

1215 O St - Operational - Sacramento County, Summer

3.5 Building Construction - 2017

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	0.4555	9.6493	3.6225	0.0183	0.4335	0.0887	0.5222	0.1248	0.0849	0.2096		1,929.105 1	1,929.105 1	0.1256		1,932.244 5
Worker	0.8365	0.4860	6.6325	0.0127	1.1030	8.4600e-003	1.1115	0.2926	7.8100e-003	0.3004		1,262.262 2	1,262.262 2	0.0481		1,263.463 8
Total	1.2920	10.1353	10.2549	0.0310	1.5365	0.0972	1.6336	0.4173	0.0927	0.5100		3,191.367 2	3,191.367 2	0.1736		3,195.708 3

3.5 Building Construction - 2018

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	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216		2,030.838 9	2,030.838 9	0.4088		2,041.059 6
Total	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216		2,030.838 9	2,030.838 9	0.4088		2,041.059 6

1215 O St - Operational - Sacramento County, Summer

3.5 Building Construction - 2018

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	0.3867	9.1120	2.9736	0.0182	0.4334	0.0729	0.5063	0.1247	0.0697	0.1944		1,922.9632	1,922.9632	0.1192		1,925.9438
Worker	0.7473	0.4239	5.8304	0.0124	1.1030	8.1000e-003	1.1111	0.2926	7.4800e-003	0.3001		1,228.6700	1,228.6700	0.0423		1,229.7265
Total	1.1340	9.5359	8.8040	0.0306	1.5364	0.0810	1.6174	0.4173	0.0772	0.4945		3,151.6332	3,151.6332	0.1615		3,155.6703

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	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.8389	2,030.8389	0.4088		2,041.0596
Total	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.8389	2,030.8389	0.4088		2,041.0596

1215 O St - Operational - Sacramento County, Summer

3.5 Building Construction - 2018

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	0.3867	9.1120	2.9736	0.0182	0.4334	0.0729	0.5063	0.1247	0.0697	0.1944		1,922.9632	1,922.9632	0.1192		1,925.9438
Worker	0.7473	0.4239	5.8304	0.0124	1.1030	8.1000e-003	1.1111	0.2926	7.4800e-003	0.3001		1,228.6700	1,228.6700	0.0423		1,229.7265
Total	1.1340	9.5359	8.8040	0.0306	1.5364	0.0810	1.6174	0.4173	0.0772	0.4945		3,151.6332	3,151.6332	0.1615		3,155.6703

3.6 Paving - 2018

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	1.0182	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618		1,346.4360	1,346.4360	0.4113		1,356.7186
Paving	0.2096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2278	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618		1,346.4360	1,346.4360	0.4113		1,356.7186

1215 O St - Operational - Sacramento County, Summer

3.6 Paving - 2018

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	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513
Total	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513

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	1.0182	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618	0.0000	1,346.4360	1,346.4360	0.4113		1,356.7186
Paving	0.2096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2278	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618	0.0000	1,346.4360	1,346.4360	0.4113		1,356.7186

1215 O St - Operational - Sacramento County, Summer

3.6 Paving - 2018

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	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513
Total	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513

3.7 Architectural Coating - 2018

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					
Archit. Coating	369.8596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	370.1582	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

1215 O St - Operational - Sacramento County, Summer

3.7 Architectural Coating - 2018

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	0.1495	0.0848	1.1661	2.4700e-003	0.2206	1.6200e-003	0.2222	0.0585	1.5000e-003	0.0600		245.7340	245.7340	8.4500e-003		245.9453
Total	0.1495	0.0848	1.1661	2.4700e-003	0.2206	1.6200e-003	0.2222	0.0585	1.5000e-003	0.0600		245.7340	245.7340	8.4500e-003		245.9453

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					
Archit. Coating	369.8596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	370.1582	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

1215 O St - Operational - Sacramento County, Summer

3.7 Architectural Coating - 2018

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	0.1495	0.0848	1.1661	2.4700e-003	0.2206	1.6200e-003	0.2222	0.0585	1.5000e-003	0.0600		245.7340	245.7340	8.4500e-003		245.9453
Total	0.1495	0.0848	1.1661	2.4700e-003	0.2206	1.6200e-003	0.2222	0.0585	1.5000e-003	0.0600		245.7340	245.7340	8.4500e-003		245.9453

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

1215 O St - Operational - Sacramento County, Summer

	ROG	NOx	CO	SO2	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	6.9617	15.2038	25.0036	0.0396	1.9671	0.0482	2.0153	0.5260	0.0449	0.5709		4,015.2363	4,015.2363	0.3508		4,024.0065
Unmitigated	6.9617	15.2038	25.0036	0.0396	1.9671	0.0482	2.0153	0.5260	0.0449	0.5709		4,015.2363	4,015.2363	0.3508		4,024.0065

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	4,386.63	978.34	417.59	704,411	704,411
Parking Lot	0.00	0.00	0.00		
Total	4,386.63	978.34	417.59	704,411	704,411

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
Enclosed Parking with Elevator	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
General Office Building	0.11	0.82	1.45	33.00	48.00	19.00	77	19	4
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

1215 O St - Operational - Sacramento County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Enclosed Parking with Elevator	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Parking Lot	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	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	0.1404	1.2762	1.0720	7.6600e-003		0.0970	0.0970		0.0970	0.0970		1,531.4494	1,531.4494	0.0294	0.0281	1,540.5501
NaturalGas Unmitigated	0.1474	1.3396	1.1252	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.4643	1,607.4643	0.0308	0.0295	1,617.0167

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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					
Enclosed Parking with Elevator	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
General Office Building	13663.4	0.1474	1.3396	1.1252	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.4643	1,607.4643	0.0308	0.0295	1,617.0167
Parking Lot	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		0.1474	1.3396	1.1252	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.4643	1,607.4643	0.0308	0.0295	1,617.0167

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					
Enclosed Parking with Elevator	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
General Office Building	13.0173	0.1404	1.2762	1.0720	7.6600e-003		0.0970	0.0970		0.0970	0.0970		1,531.4494	1,531.4494	0.0294	0.0281	1,540.5501
Parking Lot	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		0.1404	1.2762	1.0720	7.6600e-003		0.0970	0.0970		0.0970	0.0970		1,531.4494	1,531.4494	0.0294	0.0281	1,540.5501

6.0 Area Detail

1215 O St - Operational - Sacramento County, Summer

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	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977
Unmitigated	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977

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	1.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977
Total	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977

1215 O St - Operational - Sacramento County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977
Total	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977

7.0 Water Detail

7.1 Mitigation Measures Water

- Use Grey Water
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

1215 O St - Operational - Sacramento County, Summer

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	500	737	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (600 - 750 HP)	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

1215 O St - Operational - Sacramento County, Summer

11.0 Vegetation

1215 O St - Cumulative - Sacramento County, Summer

1215 O St - Cumulative
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	397.70	1000sqft	1.00	397,700.00	0
Enclosed Parking with Elevator	20.00	Space	0.18	8,000.00	0
Parking Lot	0.80	Acre	0.80	34,848.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2021
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	534	CH4 Intensity (lb/MW hr)	0.027	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

1215 O St - Cumulative - Sacramento County, Summer

Project Characteristics - Adjusted energy intensity factors, SMUD 2020 is 33% renewable.

Land Use - Acreage and sq ft from PD

Construction Phase - Operational run only

Vehicle Trips - Trip lengths match new employee plus Bateson Building backfill VMT from traffic study

Energy Use - 2016 Title 24 standards reduce energy consumption 5%

Energy Mitigation - From PD: 70,000 sq ft of solar arrays will generate 2 MKWh. Project designed to exceed 2016 Title 24 standards. Lighting efficiency of 16% reduction minimum from CAPCOA guidance.

Water Mitigation - All plumbing fixtures in building would be low-flow from PD. Greywater usage of 426,000 gallons/year is 6% (demand is 24 AFY)

Waste Mitigation - Recycle 50% of waste

Stationary Sources - Emergency Generators and Fire Pumps - 550 kw diesel generator converted to HP. 500 hours per year is maximum capacity of most generators.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	3.92	3.72
tblEnergyUse	T24E	5.22	4.96
tblEnergyUse	T24NG	12.48	11.86
tblLandUse	LotAcreage	9.13	1.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.027
tblProjectCharacteristics	CO2IntensityFactor	590.31	534
tblProjectCharacteristics	OperationalYear	2018	2021
tblVehicleTrips	CC_TL	5.00	4.90
tblVehicleTrips	CW_TL	10.00	5.10

2.0 Emissions Summary

1215 O St - Cumulative - Sacramento County, Summer

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	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977
Energy	0.1474	1.3396	1.1252	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.4643	1,607.4643	0.0308	0.0295	1,617.0167
Mobile	8.4640	24.5450	68.9879	0.1875	14.6085	0.1615	14.7699	3.9059	0.1511	4.0571		18,975.5222	18,975.5222	0.9556		18,999.4121
Stationary	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	18.1547	25.8849	70.1561	0.1956	14.6085	0.2634	14.8719	3.9059	0.2531	4.1590		20,583.0781	20,583.0781	0.9867	0.0295	20,616.5264

1215 O St - Cumulative - Sacramento County, Summer

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977
Energy	0.1404	1.2762	1.0720	7.6600e-003		0.0970	0.0970		0.0970	0.0970		1,531.4494	1,531.4494	0.0294	0.0281	1,540.5501
Mobile	8.4640	24.5450	68.9879	0.1875	14.6085	0.1615	14.7699	3.9059	0.1511	4.0571		18,975.5222	18,975.5222	0.9556		18,999.4121
Stationary	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	18.1477	25.8216	70.1029	0.1952	14.6085	0.2586	14.8671	3.9059	0.2483	4.1542		20,507.0632	20,507.0632	0.9852	0.0281	20,540.0598

	ROG	NOx	CO	SO2	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	0.04	0.24	0.08	0.19	0.00	1.83	0.03	0.00	1.90	0.12	0.00	0.37	0.37	0.15	4.72	0.37

3.0 Construction Detail

Construction Phase

1215 O St - Cumulative - Sacramento County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/28/2017	4/24/2017	5	20	
2	Site Preparation	Site Preparation	4/25/2017	4/26/2017	5	2	
3	Grading	Grading	4/27/2017	5/2/2017	5	4	
4	Building Construction	Building Construction	5/3/2017	2/6/2018	5	200	
5	Paving	Paving	2/7/2018	2/20/2018	5	10	
6	Architectural Coating	Architectural Coating	2/21/2018	3/6/2018	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.98

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 596,550; Non-Residential Outdoor: 198,850; Striped Parking Area: 2,571 (Architectural Coating – sqft)

OffRoad Equipment

1215 O St - Cumulative - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

1215 O St - Cumulative - Sacramento County, Summer

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	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	145.00	72.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	29.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404		2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404		2,421.4229	2,421.4229	0.6125		2,436.7347

1215 O St - Cumulative - Sacramento County, Summer

3.2 Demolition - 2017

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	0.0750	0.0436	0.5946	1.1400e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		113.1683	113.1683	4.3100e-003		113.2761
Total	0.0750	0.0436	0.5946	1.1400e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		113.1683	113.1683	4.3100e-003		113.2761

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	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347

1215 O St - Cumulative - Sacramento County, Summer

3.2 Demolition - 2017

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	0.0750	0.0436	0.5946	1.1400e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		113.1683	113.1683	4.3100e-003		113.2761
Total	0.0750	0.0436	0.5946	1.1400e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		113.1683	113.1683	4.3100e-003		113.2761

3.3 Site Preparation - 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					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.9297	22.2106	8.4016	0.0172		1.0451	1.0451		0.9615	0.9615		1,764.2381	1,764.2381	0.5406		1,777.7521
Total	1.9297	22.2106	8.4016	0.0172	5.7996	1.0451	6.8446	2.9537	0.9615	3.9152		1,764.2381	1,764.2381	0.5406		1,777.7521

1215 O St - Cumulative - Sacramento County, Summer

3.3 Site Preparation - 2017

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	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083
Total	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083

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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.9297	22.2106	8.4016	0.0172		1.0451	1.0451		0.9615	0.9615	0.0000	1,764.2381	1,764.2381	0.5406		1,777.7521
Total	1.9297	22.2106	8.4016	0.0172	5.7996	1.0451	6.8446	2.9537	0.9615	3.9152	0.0000	1,764.2381	1,764.2381	0.5406		1,777.7521

1215 O St - Cumulative - Sacramento County, Summer

3.3 Site Preparation - 2017

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	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083
Total	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083

3.4 Grading - 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					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.6023	18.2915	7.0342	0.0141		0.8738	0.8738		0.8039	0.8039		1,444.8958	1,444.8958	0.4427		1,455.9636
Total	1.6023	18.2915	7.0342	0.0141	4.9143	0.8738	5.7880	2.5256	0.8039	3.3295		1,444.8958	1,444.8958	0.4427		1,455.9636

1215 O St - Cumulative - Sacramento County, Summer

3.4 Grading - 2017

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	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083
Total	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083

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					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.6023	18.2915	7.0342	0.0141		0.8738	0.8738		0.8039	0.8039	0.0000	1,444.8958	1,444.8958	0.4427		1,455.9636
Total	1.6023	18.2915	7.0342	0.0141	4.9143	0.8738	5.7880	2.5256	0.8039	3.3295	0.0000	1,444.8958	1,444.8958	0.4427		1,455.9636

1215 O St - Cumulative - Sacramento County, Summer

3.4 Grading - 2017

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	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083
Total	0.0462	0.0268	0.3659	7.0000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		69.6421	69.6421	2.6500e-003		69.7083

3.5 Building Construction - 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	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875		2,043.8641	2,043.8641	0.4298		2,054.6085
Total	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875		2,043.8641	2,043.8641	0.4298		2,054.6085

1215 O St - Cumulative - Sacramento County, Summer

3.5 Building Construction - 2017

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	0.4555	9.6493	3.6225	0.0183	0.4335	0.0887	0.5222	0.1248	0.0849	0.2096		1,929.105 1	1,929.105 1	0.1256		1,932.244 5
Worker	0.8365	0.4860	6.6325	0.0127	1.1030	8.4600e-003	1.1115	0.2926	7.8100e-003	0.3004		1,262.262 2	1,262.262 2	0.0481		1,263.463 8
Total	1.2920	10.1353	10.2549	0.0310	1.5365	0.0972	1.6336	0.4173	0.0927	0.5100		3,191.367 2	3,191.367 2	0.1736		3,195.708 3

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	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875	0.0000	2,043.864 1	2,043.864 1	0.4298		2,054.608 5
Total	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875	0.0000	2,043.864 1	2,043.864 1	0.4298		2,054.608 5

1215 O St - Cumulative - Sacramento County, Summer

3.5 Building Construction - 2017

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	0.4555	9.6493	3.6225	0.0183	0.4335	0.0887	0.5222	0.1248	0.0849	0.2096		1,929.105 1	1,929.105 1	0.1256		1,932.244 5
Worker	0.8365	0.4860	6.6325	0.0127	1.1030	8.4600e-003	1.1115	0.2926	7.8100e-003	0.3004		1,262.262 2	1,262.262 2	0.0481		1,263.463 8
Total	1.2920	10.1353	10.2549	0.0310	1.5365	0.0972	1.6336	0.4173	0.0927	0.5100		3,191.367 2	3,191.367 2	0.1736		3,195.708 3

3.5 Building Construction - 2018

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	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216		2,030.838 9	2,030.838 9	0.4088		2,041.059 6
Total	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216		2,030.838 9	2,030.838 9	0.4088		2,041.059 6

1215 O St - Cumulative - Sacramento County, Summer

3.5 Building Construction - 2018

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	0.3867	9.1120	2.9736	0.0182	0.4334	0.0729	0.5063	0.1247	0.0697	0.1944		1,922.9632	1,922.9632	0.1192		1,925.9438
Worker	0.7473	0.4239	5.8304	0.0124	1.1030	8.1000e-003	1.1111	0.2926	7.4800e-003	0.3001		1,228.6700	1,228.6700	0.0423		1,229.7265
Total	1.1340	9.5359	8.8040	0.0306	1.5364	0.0810	1.6174	0.4173	0.0772	0.4945		3,151.6332	3,151.6332	0.1615		3,155.6703

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	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.8389	2,030.8389	0.4088		2,041.0596
Total	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.8389	2,030.8389	0.4088		2,041.0596

1215 O St - Cumulative - Sacramento County, Summer

3.5 Building Construction - 2018

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	0.3867	9.1120	2.9736	0.0182	0.4334	0.0729	0.5063	0.1247	0.0697	0.1944		1,922.9632	1,922.9632	0.1192		1,925.9438
Worker	0.7473	0.4239	5.8304	0.0124	1.1030	8.1000e-003	1.1111	0.2926	7.4800e-003	0.3001		1,228.6700	1,228.6700	0.0423		1,229.7265
Total	1.1340	9.5359	8.8040	0.0306	1.5364	0.0810	1.6174	0.4173	0.0772	0.4945		3,151.6332	3,151.6332	0.1615		3,155.6703

3.6 Paving - 2018

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	1.0182	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618		1,346.4360	1,346.4360	0.4113		1,356.7186
Paving	0.2096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2278	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618		1,346.4360	1,346.4360	0.4113		1,356.7186

1215 O St - Cumulative - Sacramento County, Summer

3.6 Paving - 2018

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	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513
Total	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513

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	1.0182	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618	0.0000	1,346.4360	1,346.4360	0.4113		1,356.7186
Paving	0.2096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2278	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618	0.0000	1,346.4360	1,346.4360	0.4113		1,356.7186

1215 O St - Cumulative - Sacramento County, Summer

3.6 Paving - 2018

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	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513
Total	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513

3.7 Architectural Coating - 2018

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					
Archit. Coating	369.8596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	370.1582	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

1215 O St - Cumulative - Sacramento County, Summer

3.7 Architectural Coating - 2018

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	0.1495	0.0848	1.1661	2.4700e-003	0.2206	1.6200e-003	0.2222	0.0585	1.5000e-003	0.0600		245.7340	245.7340	8.4500e-003		245.9453
Total	0.1495	0.0848	1.1661	2.4700e-003	0.2206	1.6200e-003	0.2222	0.0585	1.5000e-003	0.0600		245.7340	245.7340	8.4500e-003		245.9453

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					
Archit. Coating	369.8596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	370.1582	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

1215 O St - Cumulative - Sacramento County, Summer

3.7 Architectural Coating - 2018

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	0.1495	0.0848	1.1661	2.4700e-003	0.2206	1.6200e-003	0.2222	0.0585	1.5000e-003	0.0600		245.7340	245.7340	8.4500e-003		245.9453
Total	0.1495	0.0848	1.1661	2.4700e-003	0.2206	1.6200e-003	0.2222	0.0585	1.5000e-003	0.0600		245.7340	245.7340	8.4500e-003		245.9453

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

1215 O St - Cumulative - Sacramento County, Summer

	ROG	NOx	CO	SO2	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	8.4640	24.5450	68.9879	0.1875	14.6085	0.1615	14.7699	3.9059	0.1511	4.0571		18,975.52 22	18,975.52 22	0.9556		18,999.41 21
Unmitigated	8.4640	24.5450	68.9879	0.1875	14.6085	0.1615	14.7699	3.9059	0.1511	4.0571		18,975.52 22	18,975.52 22	0.9556		18,999.41 21

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	4,386.63	978.34	417.59	5,231,213	5,231,213
Parking Lot	0.00	0.00	0.00		
Total	4,386.63	978.34	417.59	5,231,213	5,231,213

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
Enclosed Parking with Elevator	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
General Office Building	5.10	4.90	6.50	33.00	48.00	19.00	77	19	4
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

1215 O St - Cumulative - Sacramento County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Enclosed Parking with Elevator	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Parking Lot	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	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	0.1404	1.2762	1.0720	7.6600e-003		0.0970	0.0970		0.0970	0.0970		1,531.4494	1,531.4494	0.0294	0.0281	1,540.5501
NaturalGas Unmitigated	0.1474	1.3396	1.1252	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.4643	1,607.4643	0.0308	0.0295	1,617.0167

1215 O St - Cumulative - Sacramento County, Summer

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					
Enclosed Parking with Elevator	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
General Office Building	13663.4	0.1474	1.3396	1.1252	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.4643	1,607.4643	0.0308	0.0295	1,617.0167
Parking Lot	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		0.1474	1.3396	1.1252	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.4643	1,607.4643	0.0308	0.0295	1,617.0167

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					
Enclosed Parking with Elevator	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
General Office Building	13.0173	0.1404	1.2762	1.0720	7.6600e-003		0.0970	0.0970		0.0970	0.0970		1,531.4494	1,531.4494	0.0294	0.0281	1,540.5501
Parking Lot	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		0.1404	1.2762	1.0720	7.6600e-003		0.0970	0.0970		0.0970	0.0970		1,531.4494	1,531.4494	0.0294	0.0281	1,540.5501

6.0 Area Detail

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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	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977
Unmitigated	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977

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	1.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977
Total	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977
Total	9.5433	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0916	0.0916	2.4000e-004		0.0977

7.0 Water Detail

7.1 Mitigation Measures Water

- Use Grey Water
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	500	737	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (600 - 750 HP)	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

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11.0 Vegetation
