

APPENDIX C

Air Quality and Greenhouse Gas Emissions Modeling and Regulatory Information

Sacramento Commons

Air Quality and Greenhouse Gas Appendix

Phase 1 Option 1 Construction Emissions

CalEEMod Outputs (Winter, Summer, Annual)

Sac Commons - Phase 1 Construction Option 1
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	284.75	1000sqft	2.10	284,750.00	0
Hotel	320.00	Room	0.88	140,000.00	0
Apartments High Rise	203.00	Dwelling Unit	0.76	17,100.00	406
Apartments Mid Rise	53.00	Dwelling Unit	0.23	36,050.00	106
Condo/Townhouse High Rise	124.00	Dwelling Unit	1.11	176,400.00	248
Strip Mall	36.12	1000sqft	0.22	36,122.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User defined data. Square footage referenced from Land Use Density Table. Lot acreage per land use approximated based on ground floor and podium floor footprints.

Construction Phase - Project schedule from project description

Off-road Equipment -

Off-road Equipment - Adjust to CalEEMod default HP

Off-road Equipment - Adjust to CalEEMod default HP and load factor

Off-road Equipment - An excavator was substituted for a second tractor/loader/backhoe to the project to handle the additional earthwork activity. Equipment will not be operated simultaneously and therefore will share a workday.

Off-road Equipment - Adjust to CalEEMod default HP

Off-road Equipment - Adjust to CalEEMod default HP

Trips and VMT - User defined values.

Demolition -

Grading - User defined values added.

Architectural Coating - User defined values.

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Mitigation measures (assumed potential All Tier 3 equipment)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	230,436.00	232,320.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	691,308.00	696,960.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	154,946.00	116,775.00
tblArchitecturalCoating	ConstArea_Residential_Interior	464,839.00	350,325.00
tblAreaCoating	Area_Nonresidential_Interior	691308	696960
tblAreaCoating	Area_Residential_Exterior	154946	116775
tblAreaCoating	Area_Residential_Interior	464839	350325
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	66.00

tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	PhaseEndDate	1/2/2017	10/31/2016
tblConstructionPhase	PhaseEndDate	7/29/2016	7/31/2016
tblConstructionPhase	PhaseEndDate	8/14/2017	9/30/2016
tblConstructionPhase	PhaseEndDate	4/29/2016	4/30/2016
tblConstructionPhase	PhaseStartDate	10/1/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	8/1/2017	8/1/2016
tblFireplaces	NumberNoFireplace	124.00	120.00
tblGrading	AcresOfGrading	32.50	2.42
tblGrading	AcresOfGrading	66.00	3.18
tblGrading	MaterialExported	0.00	17,467.00
tblLandUse	LandUseSquareFeet	464,640.00	140,000.00
tblLandUse	LandUseSquareFeet	203,000.00	17,100.00
tblLandUse	LandUseSquareFeet	53,000.00	36,050.00
tblLandUse	LandUseSquareFeet	124,000.00	176,400.00
tblLandUse	LandUseSquareFeet	36,120.00	36,122.00
tblLandUse	LotAcreage	6.54	2.10
tblLandUse	LotAcreage	10.67	0.88
tblLandUse	LotAcreage	3.27	0.76
tblLandUse	LotAcreage	1.39	0.23
tblLandUse	LotAcreage	1.94	1.11
tblLandUse	LotAcreage	0.83	0.22
tblLandUse	Population	542.00	406.00
tblLandUse	Population	142.00	106.00

tblLandUse	Population	331.00	248.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	125.00	89.00
tblOffRoadEquipment	HorsePower	130.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	361.00	356.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	57.04	55.20
tblTripsAndVMT	HaulingTripNumber	2,183.00	1,747.00
tblTripsAndVMT	VendorTripNumber	116.00	95.00
tblTripsAndVMT	WorkerTripNumber	464.00	320.00
tblTripsAndVMT	WorkerTripNumber	93.00	64.00
tblWater	IndoorWaterUseRate	8,079,099.18	7,818,483.07
tblWater	OutdoorWaterUseRate	5,093,345.13	4,929,043.68

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					
2015	3.2844	32.7404	25.8898	0.0277	1.0917	1.8442	2.9359	0.1929	1.7175	1.9104	0.0000	2,836.544 2	2,836.544 2	0.6686	0.0000	2,850.584 3
2016	138.4592	48.7031	62.3641	0.0906	5.9064	2.7397	7.8435	3.0568	2.5778	4.8388	0.0000	8,387.172 8	8,387.172 8	1.0909	0.0000	8,410.081 1
2017	4.9129	28.7929	43.9765	0.0681	2.9924	1.3013	4.2937	0.8046	1.2337	2.0384	0.0000	6,100.221 0	6,100.221 0	0.6114	0.0000	6,113.060 5
Total	146.6565	110.2364	132.2304	0.1864	9.9905	5.8852	15.0731	4.0543	5.5291	8.7876	0.0000	17,323.93 79	17,323.93 79	2.3709	0.0000	17,373.72 58

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					
2015	0.7462	13.0292	16.8896	0.0277	0.6306	0.6569	1.2875	0.1231	0.6554	0.7785	0.0000	2,836.544 2	2,836.544 2	0.6686	0.0000	2,850.584 3
2016	134.5440	29.2283	61.3194	0.0906	3.5932	1.3408	4.9340	1.4567	1.3286	2.2926	0.0000	8,387.172 8	8,387.172 8	1.0909	0.0000	8,410.081 1
2017	2.8613	19.5359	43.7634	0.0681	2.9924	0.7380	3.7304	0.8046	0.7280	1.5326	0.0000	6,100.221 0	6,100.221 0	0.6114	0.0000	6,113.060 5
Total	138.1515	61.7933	121.9725	0.1864	7.2162	2.7357	9.9519	2.3845	2.7119	4.6036	0.0000	17,323.93 79	17,323.93 79	2.3709	0.0000	17,373.72 58

	ROG	NOx	CO	SO2	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	5.80	43.94	7.76	0.00	27.77	53.52	33.98	41.19	50.95	47.61	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	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	12/1/2015	2/29/2016	5	65	
2	Site Preparation	Site Preparation	3/1/2016	4/30/2016	5	44	
3	Grading	Grading	5/1/2016	7/31/2016	5	65	
4	Building Construction	Building Construction	8/1/2016	7/31/2017	5	261	
5	Paving	Paving	8/1/2016	9/30/2016	5	10	
6	Architectural Coating	Architectural Coating	8/1/2016	10/31/2016	5	66	

Acres of Grading (Site Preparation Phase): 3.18

Acres of Grading (Grading Phase): 2.42

Acres of Paving: 0

Residential Indoor: 350,325; Residential Outdoor: 116,775; Non-Residential Indoor: 696,960; Non-Residential Outdoor: 232,320 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	8.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Scrapers	1	8.00	356	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Dozers	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	8.00	208	0.29
Building Construction	Forklifts	2	7.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Building Construction	Welders	3	8.00	46	0.30
Paving	Cement and Mortar Mixers	1	8.00	9	0.38
Paving	Pavers	1	8.00	89	0.42
Paving	Paving Equipment	1	8.00	82	0.36
Paving	Rollers	2	6.00	84	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	5	13.00	0.00	242.00	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	4	10.00	0.00	1,747.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	320.00	95.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	64.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2015

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					0.8384	0.0000	0.8384	0.1269	0.0000	0.1269			0.0000			0.0000
Off-Road	3.1014	31.5118	23.5894	0.0239		1.8259	1.8259		1.7007	1.7007		2,468.619 2	2,468.619 2	0.6609		2,482.498 6
Total	3.1014	31.5118	23.5894	0.0239	0.8384	1.8259	2.6643	0.1269	1.7007	1.8276		2,468.619 2	2,468.619 2	0.6609		2,482.498 6

3.2 Demolition - 2015

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	0.1318	1.1634	1.6636	2.7000e-003	0.1544	0.0176	0.1720	0.0397	0.0161	0.0559		273.2049	273.2049	2.1300e-003		273.2496
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	0.0512	0.0652	0.6367	1.1100e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		94.7200	94.7200	5.5200e-003		94.8360
Total	0.1830	1.2287	2.3004	3.8100e-003	0.2533	0.0183	0.2716	0.0660	0.0168	0.0828		367.9250	367.9250	7.6500e-003		368.0857

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					0.3773	0.0000	0.3773	0.0571	0.0000	0.0571			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,468.6192	2,468.6192	0.6609		2,482.4986
Total	0.5633	11.8005	14.5893	0.0239	0.3773	0.6386	1.0158	0.0571	0.6386	0.6957	0.0000	2,468.6192	2,468.6192	0.6609		2,482.4986

3.2 Demolition - 2015

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	0.1318	1.1634	1.6636	2.7000e-003	0.1544	0.0176	0.1720	0.0397	0.0161	0.0559		273.2049	273.2049	2.1300e-003		273.2496
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	0.0512	0.0652	0.6367	1.1100e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		94.7200	94.7200	5.5200e-003		94.8360
Total	0.1830	1.2287	2.3004	3.8100e-003	0.2533	0.0183	0.2716	0.0660	0.0168	0.0828		367.9250	367.9250	7.6500e-003		368.0857

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					0.8384	0.0000	0.8384	0.1269	0.0000	0.1269			0.0000			0.0000
Off-Road	2.9624	30.1262	22.8503	0.0239		1.7205	1.7205		1.6015	1.6015		2,445.0407	2,445.0407	0.6560		2,458.8170
Total	2.9624	30.1262	22.8503	0.0239	0.8384	1.7205	2.5589	0.1269	1.6015	1.7285		2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.1101	0.9973	1.5228	2.6900e-003	0.0915	0.0143	0.1058	0.0243	0.0131	0.0374		269.3742	269.3742	1.9100e-003		269.4143
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	0.0455	0.0582	0.5663	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		91.2457	91.2457	5.0200e-003		91.3512
Total	0.1555	1.0554	2.0891	3.8000e-003	0.1904	0.0150	0.2054	0.0505	0.0138	0.0643		360.6199	360.6199	6.9300e-003		360.7655

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					0.3773	0.0000	0.3773	0.0571	0.0000	0.0571			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170
Total	0.5633	11.8005	14.5893	0.0239	0.3773	0.6386	1.0158	0.0571	0.6386	0.6957	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.1101	0.9973	1.5228	2.6900e-003	0.0915	0.0143	0.1058	0.0243	0.0131	0.0374		269.3742	269.3742	1.9100e-003		269.4143
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	0.0455	0.0582	0.5663	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		91.2457	91.2457	5.0200e-003		91.3512
Total	0.1555	1.0554	2.0891	3.8000e-003	0.1904	0.0150	0.2054	0.0505	0.0138	0.0643		360.6199	360.6199	6.9300e-003		360.7655

3.3 Site Preparation - 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					0.0767	0.0000	0.0767	8.2800e-003	0.0000	8.2800e-003			0.0000			0.0000
Off-Road	2.5422	29.2182	17.0887	0.0226		1.4119	1.4119		1.2989	1.2989		2,349.6453	2,349.6453	0.7087		2,364.5287
Total	2.5422	29.2182	17.0887	0.0226	0.0767	1.4119	1.4885	8.2800e-003	1.2989	1.3072		2,349.6453	2,349.6453	0.7087		2,364.5287

3.3 Site Preparation - 2016

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	0.0280	0.0358	0.3485	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		56.1512	56.1512	3.0900e-003			56.2161
Total	0.0280	0.0358	0.3485	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		56.1512	56.1512	3.0900e-003			56.2161

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					0.0345	0.0000	0.0345	3.7200e-003	0.0000	3.7200e-003			0.0000				0.0000
Off-Road	0.5536	10.8832	13.7548	0.0226		0.4786	0.4786		0.4786	0.4786	0.0000	2,349.6453	2,349.6453	0.7087			2,364.5287
Total	0.5536	10.8832	13.7548	0.0226	0.0345	0.4786	0.5131	3.7200e-003	0.4786	0.4824	0.0000	2,349.6453	2,349.6453	0.7087			2,364.5287

3.3 Site Preparation - 2016

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	0.0280	0.0358	0.3485	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		56.1512	56.1512	3.0900e-003		56.2161
Total	0.0280	0.0358	0.3485	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		56.1512	56.1512	3.0900e-003		56.2161

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					5.3644	0.0000	5.3644	2.9091	0.0000	2.9091			0.0000			0.0000
Off-Road	3.2711	35.1641	23.4390	0.0252		1.8335	1.8335		1.6868	1.6868		2,625.4322	2,625.4322	0.7919		2,642.0626
Total	3.2711	35.1641	23.4390	0.0252	5.3644	1.8335	7.1979	2.9091	1.6868	4.5960		2,625.4322	2,625.4322	0.7919		2,642.0626

3.4 Grading - 2016

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	0.7944	7.1992	10.9928	0.0194	0.4659	0.1031	0.5690	0.1275	0.0947	0.2222		1,944.614 4	1,944.614 4	0.0138		1,944.904 3
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	0.0350	0.0447	0.4356	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		70.1890	70.1890	3.8600e-003		70.2701
Total	0.8294	7.2439	11.4284	0.0203	0.5420	0.1036	0.6456	0.1476	0.0952	0.2429		2,014.803 4	2,014.803 4	0.0177		2,015.174 4

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					2.4140	0.0000	2.4140	1.3091	0.0000	1.3091			0.0000			0.0000
Off-Road	0.6148	12.0910	16.5243	0.0252		0.5599	0.5599		0.5599	0.5599	0.0000	2,625.432 2	2,625.432 2	0.7919		2,642.062 6
Total	0.6148	12.0910	16.5243	0.0252	2.4140	0.5599	2.9739	1.3091	0.5599	1.8690	0.0000	2,625.432 2	2,625.432 2	0.7919		2,642.062 6

3.4 Grading - 2016

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	0.7944	7.1992	10.9928	0.0194	0.4659	0.1031	0.5690	0.1275	0.0947	0.2222		1,944.6144	1,944.6144	0.0138		1,944.9043
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	0.0350	0.0447	0.4356	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		70.1890	70.1890	3.8600e-003		70.2701
Total	0.8294	7.2439	11.4284	0.0203	0.5420	0.1036	0.6456	0.1476	0.0952	0.2429		2,014.8034	2,014.8034	0.0177		2,015.1744

3.5 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	2.9039	21.8299	13.8491	0.0210		1.2998	1.2998		1.2368	1.2368		2,028.7571	2,028.7571	0.4991		2,039.2379
Total	2.9039	21.8299	13.8491	0.0210		1.2998	1.2998		1.2368	1.2368		2,028.7571	2,028.7571	0.4991		2,039.2379

3.5 Building Construction - 2016

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	1.5109	8.1806	19.5434	0.0198	0.5580	0.1269	0.6850	0.1589	0.1166	0.2754		1,966.161 2	1,966.161 2	0.0161			1,966.498 7
Worker	1.1188	1.4314	13.9394	0.0273	2.4342	0.0179	2.4521	0.6457	0.0164	0.6621		2,246.048 5	2,246.048 5	0.1236			2,248.643 7
Total	2.6297	9.6119	33.4828	0.0471	2.9923	0.1448	3.1371	0.8046	0.1330	0.9376		4,212.209 6	4,212.209 6	0.1397			4,215.142 4

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	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,028.757 1	2,028.757 1	0.4991			2,039.237 9
Total	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,028.757 1	2,028.757 1	0.4991			2,039.237 9

3.5 Building Construction - 2016

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	1.5109	8.1806	19.5434	0.0198	0.5580	0.1269	0.6850	0.1589	0.1166	0.2754		1,966.161 2	1,966.161 2	0.0161			1,966.498 7
Worker	1.1188	1.4314	13.9394	0.0273	2.4342	0.0179	2.4521	0.6457	0.0164	0.6621		2,246.048 5	2,246.048 5	0.1236			2,248.643 7
Total	2.6297	9.6119	33.4828	0.0471	2.9923	0.1448	3.1371	0.8046	0.1330	0.9376		4,212.209 6	4,212.209 6	0.1397			4,215.142 4

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	2.6343	20.2752	13.4750	0.0210		1.1770	1.1770		1.1196	1.1196		2,010.101 2	2,010.101 2	0.4837			2,020.257 9
Total	2.6343	20.2752	13.4750	0.0210		1.1770	1.1770		1.1196	1.1196		2,010.101 2	2,010.101 2	0.4837			2,020.257 9

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	1.2907	7.2395	18.1195	0.0198	0.5582	0.1070	0.6651	0.1589	0.0982	0.2572		1,933.006 2	1,933.006 2	0.0150			1,933.321 5
Worker	0.9878	1.2782	12.3821	0.0273	2.4342	0.0173	2.4515	0.6457	0.0159	0.6616		2,157.113 6	2,157.113 6	0.1127			2,159.481 1
Total	2.2785	8.5177	30.5016	0.0471	2.9924	0.1242	3.1166	0.8046	0.1142	0.9188		4,090.119 8	4,090.119 8	0.1278			4,092.802 6

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	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,010.101 2	2,010.101 2	0.4837			2,020.257 9
Total	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,010.101 2	2,010.101 2	0.4837			2,020.257 9

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	1.2907	7.2395	18.1195	0.0198	0.5582	0.1070	0.6651	0.1589	0.0982	0.2572		1,933.006 2	1,933.006 2	0.0150			1,933.321 5
Worker	0.9878	1.2782	12.3821	0.0273	2.4342	0.0173	2.4515	0.6457	0.0159	0.6616		2,157.113 6	2,157.113 6	0.1127			2,159.481 1
Total	2.2785	8.5177	30.5016	0.0471	2.9924	0.1242	3.1166	0.8046	0.1142	0.9188		4,090.119 8	4,090.119 8	0.1278			4,092.802 6

3.6 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	1.5867	14.5357	9.7070	0.0128		1.0941	1.0941		1.0074	1.0074		1,310.264 8	1,310.264 8	0.3884			1,318.422 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.5867	14.5357	9.7070	0.0128		1.0941	1.0941		1.0074	1.0074		1,310.264 8	1,310.264 8	0.3884			1,318.422 1

3.6 Paving - 2016

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	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003			105.4052
Total	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003			105.4052

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	0.3017	6.8878	9.3011	0.0128		0.4827	0.4827		0.4827	0.4827	0.0000	1,310.2648	1,310.2648	0.3884			1,318.4221
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.3017	6.8878	9.3011	0.0128		0.4827	0.4827		0.4827	0.4827	0.0000	1,310.2648	1,310.2648	0.3884			1,318.4221

3.6 Paving - 2016

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	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003			105.4052
Total	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003			105.4052

3.7 Architectural Coating - 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						
Archit. Coating	130.6944					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
Total	131.0628	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449

3.7 Architectural Coating - 2016

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	0.2238	0.2863	2.7879	5.4600e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		449.2097	449.2097	0.0247			449.7287
Total	0.2238	0.2863	2.7879	5.4600e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		449.2097	449.2097	0.0247			449.7287

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	130.6944					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332			282.1449
Total	130.7538	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332			282.1449

3.7 Architectural Coating - 2016

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	0.2238	0.2863	2.7879	5.4600e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		449.2097	449.2097	0.0247			449.7287
Total	0.2238	0.2863	2.7879	5.4600e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		449.2097	449.2097	0.0247			449.7287

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	23.0434	43.6547	227.3045	0.3768	27.4878	0.5358	28.0236	7.3428	0.4929	7.8357		31,606.48 29	31,606.48 29	1.4109			31,636.11 14
Unmitigated	23.0434	43.6547	227.3045	0.3768	27.4878	0.5358	28.0236	7.3428	0.4929	7.8357		31,606.48 29	31,606.48 29	1.4109			31,636.11 14

Sac Commons - Phase 1 Construction Option 1 Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	284.75	1000sqft	2.10	284,750.00	0
Hotel	320.00	Room	0.88	140,000.00	0
Apartments High Rise	203.00	Dwelling Unit	0.76	17,100.00	406
Apartments Mid Rise	53.00	Dwelling Unit	0.23	36,050.00	106
Condo/Townhouse High Rise	124.00	Dwelling Unit	1.11	176,400.00	248
Strip Mall	36.12	1000sqft	0.22	36,122.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User defined data. Square footage referenced from Land Use Density Table. Lot acreage per land use approximated based on ground floor and podium floor footprints.

Construction Phase - Project schedule from project description

Off-road Equipment -

Off-road Equipment - Adjust to CalEEMod default HP

Off-road Equipment - Adjust to CalEEMod default HP and load factor

Off-road Equipment - An excavator was substituted for a second tractor/loader/backhoe to the project to handle the additional earthwork activity. Equipment will not be operated simultaneously and therefore will share a workday.

Off-road Equipment - Adjust to CalEEMod default HP

Off-road Equipment - Adjust to CalEEMod default HP

Trips and VMT - User defined values.

Demolition -

Grading - User defined values added.

Architectural Coating - User defined values.

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Mitigation measures (assumed potential All Tier 3 equipment)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	230,436.00	232,320.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	691,308.00	696,960.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	154,946.00	116,775.00
tblArchitecturalCoating	ConstArea_Residential_Interior	464,839.00	350,325.00
tblAreaCoating	Area_Nonresidential_Interior	691308	696960
tblAreaCoating	Area_Residential_Exterior	154946	116775
tblAreaCoating	Area_Residential_Interior	464839	350325
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	66.00

tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	PhaseEndDate	1/2/2017	10/31/2016
tblConstructionPhase	PhaseEndDate	7/29/2016	7/31/2016
tblConstructionPhase	PhaseEndDate	8/14/2017	9/30/2016
tblConstructionPhase	PhaseEndDate	4/29/2016	4/30/2016
tblConstructionPhase	PhaseStartDate	10/1/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	8/1/2017	8/1/2016
tblFireplaces	NumberNoFireplace	124.00	120.00
tblGrading	AcresOfGrading	32.50	2.42
tblGrading	AcresOfGrading	66.00	3.18
tblGrading	MaterialExported	0.00	17,467.00
tblLandUse	LandUseSquareFeet	464,640.00	140,000.00
tblLandUse	LandUseSquareFeet	203,000.00	17,100.00
tblLandUse	LandUseSquareFeet	53,000.00	36,050.00
tblLandUse	LandUseSquareFeet	124,000.00	176,400.00
tblLandUse	LandUseSquareFeet	36,120.00	36,122.00
tblLandUse	LotAcreage	6.54	2.10
tblLandUse	LotAcreage	10.67	0.88
tblLandUse	LotAcreage	3.27	0.76
tblLandUse	LotAcreage	1.39	0.23
tblLandUse	LotAcreage	1.94	1.11
tblLandUse	LotAcreage	0.83	0.22
tblLandUse	Population	542.00	406.00
tblLandUse	Population	142.00	106.00

tblLandUse	Population	331.00	248.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	125.00	89.00
tblOffRoadEquipment	HorsePower	130.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	361.00	356.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	57.04	55.20
tblTripsAndVMT	HaulingTripNumber	2,183.00	1,747.00
tblTripsAndVMT	VendorTripNumber	116.00	95.00
tblTripsAndVMT	WorkerTripNumber	464.00	320.00
tblTripsAndVMT	WorkerTripNumber	93.00	64.00
tblWater	IndoorWaterUseRate	8,079,099.18	7,818,483.07
tblWater	OutdoorWaterUseRate	5,093,345.13	4,929,043.68

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					
2015	3.2646	32.6334	25.6092	0.0279	1.0917	1.8442	2.9359	0.1929	1.7174	1.9103	0.0000	2,850.3519	2,850.3519	0.6686	0.0000	2,864.3914
2016	138.3002	47.8062	58.0819	0.0955	5.9064	2.7378	7.8431	3.0568	2.5761	4.8385	0.0000	8,793.6390	8,793.6390	1.0904	0.0000	8,816.5374
2017	4.7675	28.0639	39.2876	0.0720	2.9924	1.2997	4.2921	0.8046	1.2323	2.0370	0.0000	6,417.4419	6,417.4419	0.6109	0.0000	6,430.2716
Total	146.3323	108.5035	122.9787	0.1953	9.9905	5.8817	15.0711	4.0543	5.5259	8.7858	0.0000	18,061.4328	18,061.4328	2.3699	0.0000	18,111.2004

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					
2015	0.7264	12.9221	16.6091	0.0279	0.6306	0.6568	1.2874	0.1231	0.6553	0.7784	0.0000	2,850.3519	2,850.3519	0.6686	0.0000	2,864.3914
2016	134.3850	28.3314	57.0373	0.0955	3.5932	1.3389	4.9321	1.4567	1.3269	2.2908	0.0000	8,793.6389	8,793.6389	1.0904	0.0000	8,816.5374
2017	2.7159	18.8069	39.0744	0.0720	2.9924	0.7365	3.7289	0.8046	0.7265	1.5312	0.0000	6,417.4419	6,417.4419	0.6109	0.0000	6,430.2716
Total	137.8274	60.0604	112.7208	0.1953	7.2162	2.7322	9.9484	2.3845	2.7087	4.6004	0.0000	18,061.4328	18,061.4328	2.3699	0.0000	18,111.2004

	ROG	NOx	CO	SO2	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	5.81	44.65	8.34	0.00	27.77	53.55	33.99	41.19	50.98	47.64	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	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	12/1/2015	2/29/2016	5	65	
2	Site Preparation	Site Preparation	3/1/2016	4/30/2016	5	44	
3	Grading	Grading	5/1/2016	7/31/2016	5	65	
4	Building Construction	Building Construction	8/1/2016	7/31/2017	5	261	
5	Paving	Paving	8/1/2016	9/30/2016	5	10	
6	Architectural Coating	Architectural Coating	8/1/2016	10/31/2016	5	66	

Acres of Grading (Site Preparation Phase): 3.18

Acres of Grading (Grading Phase): 2.42

Acres of Paving: 0

Residential Indoor: 350,325; Residential Outdoor: 116,775; Non-Residential Indoor: 696,960; Non-Residential Outdoor: 232,320 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	8.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Scrapers	1	8.00	356	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Dozers	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	8.00	208	0.29
Building Construction	Forklifts	2	7.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Building Construction	Welders	3	8.00	46	0.30
Paving	Cement and Mortar Mixers	1	8.00	9	0.38
Paving	Pavers	1	8.00	89	0.42
Paving	Paving Equipment	1	8.00	82	0.36
Paving	Rollers	2	6.00	84	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	5	13.00	0.00	242.00	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	4	10.00	0.00	1,747.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	320.00	95.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	64.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2015

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					0.8384	0.0000	0.8384	0.1269	0.0000	0.1269			0.0000			0.0000
Off-Road	3.1014	31.5118	23.5894	0.0239		1.8259	1.8259		1.7007	1.7007		2,468.619 2	2,468.619 2	0.6609		2,482.498 6
Total	3.1014	31.5118	23.5894	0.0239	0.8384	1.8259	2.6643	0.1269	1.7007	1.8276		2,468.619 2	2,468.619 2	0.6609		2,482.498 6

3.2 Demolition - 2015

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	0.1050	1.0691	1.3190	2.7000e-003	0.1544	0.0175	0.1719	0.0397	0.0161	0.0558		273.8683	273.8683	2.1000e-003		273.9125
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	0.0582	0.0525	0.7008	1.2700e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		107.8643	107.8643	5.5200e-003		107.9803
Total	0.1632	1.1216	2.0198	3.9700e-003	0.2533	0.0182	0.2716	0.0660	0.0168	0.0827		381.7327	381.7327	7.6200e-003		381.8928

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					0.3773	0.0000	0.3773	0.0571	0.0000	0.0571			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,468.6192	2,468.6192	0.6609		2,482.4986
Total	0.5633	11.8005	14.5893	0.0239	0.3773	0.6386	1.0158	0.0571	0.6386	0.6957	0.0000	2,468.6192	2,468.6192	0.6609		2,482.4986

3.2 Demolition - 2015

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	0.1050	1.0691	1.3190	2.7000e-003	0.1544	0.0175	0.1719	0.0397	0.0161	0.0558		273.8683	273.8683	2.1000e-003		273.9125
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	0.0582	0.0525	0.7008	1.2700e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		107.8643	107.8643	5.5200e-003		107.9803
Total	0.1632	1.1216	2.0198	3.9700e-003	0.2533	0.0182	0.2716	0.0660	0.0168	0.0827		381.7327	381.7327	7.6200e-003		381.8928

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					0.8384	0.0000	0.8384	0.1269	0.0000	0.1269			0.0000			0.0000
Off-Road	2.9624	30.1262	22.8503	0.0239		1.7205	1.7205		1.6015	1.6015		2,445.0407	2,445.0407	0.6560		2,458.8170
Total	2.9624	30.1262	22.8503	0.0239	0.8384	1.7205	2.5589	0.1269	1.6015	1.7285		2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.0886	0.9157	1.1683	2.6900e-003	0.0915	0.0142	0.1057	0.0243	0.0131	0.0374		270.0314	270.0314	1.8800e-003		270.0710
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	0.0521	0.0469	0.6273	1.2600e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		103.9259	103.9259	5.0200e-003		104.0314
Total	0.1407	0.9625	1.7956	3.9500e-003	0.1904	0.0150	0.2053	0.0505	0.0138	0.0643		373.9573	373.9573	6.9000e-003		374.1023

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					0.3773	0.0000	0.3773	0.0571	0.0000	0.0571			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170
Total	0.5633	11.8005	14.5893	0.0239	0.3773	0.6386	1.0158	0.0571	0.6386	0.6957	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.0886	0.9157	1.1683	2.6900e-003	0.0915	0.0142	0.1057	0.0243	0.0131	0.0374		270.0314	270.0314	1.8800e-003		270.0710
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	0.0521	0.0469	0.6273	1.2600e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		103.9259	103.9259	5.0200e-003		104.0314
Total	0.1407	0.9625	1.7956	3.9500e-003	0.1904	0.0150	0.2053	0.0505	0.0138	0.0643		373.9573	373.9573	6.9000e-003		374.1023

3.3 Site Preparation - 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					0.0767	0.0000	0.0767	8.2800e-003	0.0000	8.2800e-003			0.0000			0.0000
Off-Road	2.5422	29.2182	17.0887	0.0226		1.4119	1.4119		1.2989	1.2989		2,349.6453	2,349.6453	0.7087		2,364.5287
Total	2.5422	29.2182	17.0887	0.0226	0.0767	1.4119	1.4885	8.2800e-003	1.2989	1.3072		2,349.6453	2,349.6453	0.7087		2,364.5287

3.3 Site Preparation - 2016

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	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003		64.0193
Total	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003		64.0193

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					0.0345	0.0000	0.0345	3.7200e-003	0.0000	3.7200e-003			0.0000			0.0000
Off-Road	0.5536	10.8832	13.7548	0.0226		0.4786	0.4786		0.4786	0.4786	0.0000	2,349.6453	2,349.6453	0.7087		2,364.5287
Total	0.5536	10.8832	13.7548	0.0226	0.0345	0.4786	0.5131	3.7200e-003	0.4786	0.4824	0.0000	2,349.6453	2,349.6453	0.7087		2,364.5287

3.3 Site Preparation - 2016

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	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003		64.0193
Total	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003		64.0193

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					5.3644	0.0000	5.3644	2.9091	0.0000	2.9091			0.0000			0.0000
Off-Road	3.2711	35.1641	23.4390	0.0252		1.8335	1.8335		1.6868	1.6868		2,625.4322	2,625.4322	0.7919		2,642.0626
Total	3.2711	35.1641	23.4390	0.0252	5.3644	1.8335	7.1979	2.9091	1.6868	4.5960		2,625.4322	2,625.4322	0.7919		2,642.0626

3.4 Grading - 2016

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	0.6399	6.6101	8.4337	0.0194	0.4659	0.1027	0.5686	0.1275	0.0944	0.2219		1,949.3587	1,949.3587	0.0136		1,949.6444
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	0.0401	0.0361	0.4826	9.7000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		79.9430	79.9430	3.8600e-003		80.0241
Total	0.6799	6.6462	8.9162	0.0204	0.5420	0.1033	0.6453	0.1476	0.0949	0.2425		2,029.3017	2,029.3017	0.0175		2,029.6686

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					2.4140	0.0000	2.4140	1.3091	0.0000	1.3091			0.0000			0.0000
Off-Road	0.6148	12.0910	16.5243	0.0252		0.5599	0.5599		0.5599	0.5599	0.0000	2,625.4322	2,625.4322	0.7919		2,642.0626
Total	0.6148	12.0910	16.5243	0.0252	2.4140	0.5599	2.9739	1.3091	0.5599	1.8690	0.0000	2,625.4322	2,625.4322	0.7919		2,642.0626

3.4 Grading - 2016

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	0.6399	6.6101	8.4337	0.0194	0.4659	0.1027	0.5686	0.1275	0.0944	0.2219		1,949.3587	1,949.3587	0.0136		1,949.6444
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	0.0401	0.0361	0.4826	9.7000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		79.9430	79.9430	3.8600e-003		80.0241
Total	0.6799	6.6462	8.9162	0.0204	0.5420	0.1033	0.6453	0.1476	0.0949	0.2425		2,029.3017	2,029.3017	0.0175		2,029.6686

3.5 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	2.9039	21.8299	13.8491	0.0210		1.2998	1.2998		1.2368	1.2368		2,028.7571	2,028.7571	0.4991		2,039.2379
Total	2.9039	21.8299	13.8491	0.0210		1.2998	1.2998		1.2368	1.2368		2,028.7571	2,028.7571	0.4991		2,039.2379

3.5 Building Construction - 2016

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	1.1478	7.6301	13.3874	0.0199	0.5580	0.1251	0.6831	0.1589	0.1148	0.2737		1,983.442 2	1,983.442 2	0.0156			1,983.769 9
Worker	1.2824	1.1536	15.4423	0.0311	2.4342	0.0179	2.4521	0.6457	0.0164	0.6621		2,558.176 9	2,558.176 9	0.1236			2,560.772 1
Total	2.4303	8.7837	28.8296	0.0510	2.9923	0.1430	3.1352	0.8046	0.1313	0.9359		4,541.619 1	4,541.619 1	0.1392			4,544.542 1

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	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,028.757 1	2,028.757 1	0.4991			2,039.237 9
Total	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,028.757 1	2,028.757 1	0.4991			2,039.237 9

3.5 Building Construction - 2016

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	1.1478	7.6301	13.3874	0.0199	0.5580	0.1251	0.6831	0.1589	0.1148	0.2737		1,983.442 2	1,983.442 2	0.0156			1,983.769 9
Worker	1.2824	1.1536	15.4423	0.0311	2.4342	0.0179	2.4521	0.6457	0.0164	0.6621		2,558.176 9	2,558.176 9	0.1236			2,560.772 1
Total	2.4303	8.7837	28.8296	0.0510	2.9923	0.1430	3.1352	0.8046	0.1313	0.9359		4,541.619 1	4,541.619 1	0.1392			4,544.542 1

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	2.6343	20.2752	13.4750	0.0210		1.1770	1.1770		1.1196	1.1196		2,010.101 2	2,010.101 2	0.4837			2,020.257 9
Total	2.6343	20.2752	13.4750	0.0210		1.1770	1.1770		1.1196	1.1196		2,010.101 2	2,010.101 2	0.4837			2,020.257 9

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	0.9898	6.7575	11.9883	0.0198	0.5582	0.1054	0.6636	0.1589	0.0968	0.2557		1,950.0636	1,950.0636	0.0145			1,950.3690
Worker	1.1434	1.0312	13.8243	0.0311	2.4342	0.0173	2.4515	0.6457	0.0159	0.6616		2,457.2771	2,457.2771	0.1127			2,459.6447
Total	2.1332	7.7887	25.8126	0.0510	2.9924	0.1227	3.1151	0.8046	0.1128	0.9174		4,407.3407	4,407.3407	0.1273			4,410.0137

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	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,010.1012	2,010.1012	0.4837			2,020.2579
Total	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,010.1012	2,010.1012	0.4837			2,020.2579

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	0.9898	6.7575	11.9883	0.0198	0.5582	0.1054	0.6636	0.1589	0.0968	0.2557		1,950.0636	1,950.0636	0.0145			1,950.3690
Worker	1.1434	1.0312	13.8243	0.0311	2.4342	0.0173	2.4515	0.6457	0.0159	0.6616		2,457.2771	2,457.2771	0.1127			2,459.6447
Total	2.1332	7.7887	25.8126	0.0510	2.9924	0.1227	3.1151	0.8046	0.1128	0.9174		4,407.3407	4,407.3407	0.1273			4,410.0137

3.6 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	1.5867	14.5357	9.7070	0.0128		1.0941	1.0941		1.0074	1.0074		1,310.2648	1,310.2648	0.3884			1,318.4221
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.5867	14.5357	9.7070	0.0128		1.0941	1.0941		1.0074	1.0074		1,310.2648	1,310.2648	0.3884			1,318.4221

3.6 Paving - 2016

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	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362

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	0.3017	6.8878	9.3011	0.0128		0.4827	0.4827		0.4827	0.4827	0.0000	1,310.2648	1,310.2648	0.3884			1,318.4221
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.3017	6.8878	9.3011	0.0128		0.4827	0.4827		0.4827	0.4827	0.0000	1,310.2648	1,310.2648	0.3884			1,318.4221

3.6 Paving - 2016

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	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362

3.7 Architectural Coating - 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						
Archit. Coating	130.6944					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
Total	131.0628	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449

3.7 Architectural Coating - 2016

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	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247		512.1544
Total	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247		512.1544

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	130.6944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449
Total	130.7538	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449

3.7 Architectural Coating - 2016

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	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247		512.1544
Total	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247		512.1544

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.6578	38.4112	208.7702	0.4173	27.4878	0.5313	28.0190	7.3428	0.4887	7.8315		34,888.45 45	34,888.45 45	1.4096		34,918.05 59
Unmitigated	24.6578	38.4112	208.7702	0.4173	27.4878	0.5313	28.0190	7.3428	0.4887	7.8315		34,888.45 45	34,888.45 45	1.4096		34,918.05 59

Sac Commons - Phase 1 Construction Option 1 Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	284.75	1000sqft	2.10	284,750.00	0
Hotel	320.00	Room	0.88	140,000.00	0
Apartments High Rise	203.00	Dwelling Unit	0.76	17,100.00	406
Apartments Mid Rise	53.00	Dwelling Unit	0.23	36,050.00	106
Condo/Townhouse High Rise	124.00	Dwelling Unit	1.11	176,400.00	248
Strip Mall	36.12	1000sqft	0.22	36,122.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User defined data. Square footage referenced from Land Use Density Table. Lot acreage per land use approximated based on ground floor and podium floor footprints.

Construction Phase - Project schedule from project description

Off-road Equipment -

Off-road Equipment - Adjust to CalEEMod default HP

Off-road Equipment - Adjust to CalEEMod default HP and load factor

Off-road Equipment - An excavator was substituted for a second tractor/loader/backhoe to the project to handle the additional earthwork activity. Equipment will not be operated simultaneously and therefore will share a workday.

Off-road Equipment - Adjust to CalEEMod default HP

Off-road Equipment - Adjust to CalEEMod default HP

Trips and VMT - User defined values.

Demolition -

Grading - User defined values added.

Architectural Coating - User defined values.

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Mitigation measures (assumed potential All Tier 3 equipment)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	230,436.00	232,320.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	691,308.00	696,960.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	154,946.00	116,775.00
tblArchitecturalCoating	ConstArea_Residential_Interior	464,839.00	350,325.00
tblAreaCoating	Area_Nonresidential_Interior	691308	696960
tblAreaCoating	Area_Residential_Exterior	154946	116775
tblAreaCoating	Area_Residential_Interior	464839	350325
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	66.00

tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	PhaseEndDate	1/2/2017	10/31/2016
tblConstructionPhase	PhaseEndDate	7/29/2016	7/31/2016
tblConstructionPhase	PhaseEndDate	8/14/2017	9/30/2016
tblConstructionPhase	PhaseEndDate	4/29/2016	4/30/2016
tblConstructionPhase	PhaseStartDate	10/1/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	8/1/2017	8/1/2016
tblFireplaces	NumberNoFireplace	124.00	120.00
tblGrading	AcresOfGrading	32.50	2.42
tblGrading	AcresOfGrading	66.00	3.18
tblGrading	MaterialExported	0.00	17,467.00
tblLandUse	LandUseSquareFeet	464,640.00	140,000.00
tblLandUse	LandUseSquareFeet	203,000.00	17,100.00
tblLandUse	LandUseSquareFeet	53,000.00	36,050.00
tblLandUse	LandUseSquareFeet	124,000.00	176,400.00
tblLandUse	LandUseSquareFeet	36,120.00	36,122.00
tblLandUse	LotAcreage	6.54	2.10
tblLandUse	LotAcreage	10.67	0.88
tblLandUse	LotAcreage	3.27	0.76
tblLandUse	LotAcreage	1.39	0.23
tblLandUse	LotAcreage	1.94	1.11
tblLandUse	LotAcreage	0.83	0.22
tblLandUse	Population	542.00	406.00
tblLandUse	Population	142.00	106.00

tblLandUse	Population	331.00	248.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	125.00	89.00
tblOffRoadEquipment	HorsePower	130.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	361.00	356.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	57.04	55.20
tblTripsAndVMT	HaulingTripNumber	2,183.00	1,747.00
tblTripsAndVMT	VendorTripNumber	116.00	95.00
tblTripsAndVMT	WorkerTripNumber	464.00	320.00
tblTripsAndVMT	WorkerTripNumber	93.00	64.00
tblWater	IndoorWaterUseRate	8,079,099.18	7,818,483.07
tblWater	OutdoorWaterUseRate	5,093,345.13	4,929,043.68

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					
2015	0.0375	0.3762	0.2947	3.2000e-004	0.0125	0.0212	0.0337	2.1900e-003	0.0198	0.0219	0.0000	29.6256	29.6256	6.9700e-003	0.0000	29.7721
2016	4.9091	4.7993	4.7241	6.9700e-003	0.3929	0.2411	0.6340	0.1511	0.2250	0.3761	0.0000	604.9221	604.9221	0.0923	0.0000	606.8613
2017	0.3531	2.1545	3.0017	5.2000e-003	0.2184	0.0982	0.3165	0.0589	0.0931	0.1520	0.0000	422.8441	422.8441	0.0419	0.0000	423.7231
Total	5.2997	7.3300	8.0205	0.0125	0.6237	0.3605	0.9842	0.2122	0.3378	0.5500	0.0000	1,057.3918	1,057.3918	0.1412	0.0000	1,060.3564

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					
2015	8.3500e-003	0.1495	0.1912	3.2000e-004	7.1500e-003	7.5500e-003	0.0147	1.3900e-003	7.5400e-003	8.9300e-003	0.0000	29.6256	29.6256	6.9700e-003	0.0000	29.7721
2016	4.5618	2.4610	4.2094	6.9700e-003	0.2864	0.1016	0.3880	0.0976	0.1007	0.1982	0.0000	604.9218	604.9218	0.0923	0.0000	606.8609
2017	0.1982	1.4556	2.9856	5.2000e-003	0.2184	0.0557	0.2740	0.0589	0.0549	0.1138	0.0000	422.8439	422.8439	0.0419	0.0000	423.7229
Total	4.7684	4.0661	7.3862	0.0125	0.5119	0.1648	0.6767	0.1578	0.1631	0.3209	0.0000	1,057.3913	1,057.3913	0.1412	0.0000	1,060.3559

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2015	2/29/2016	5	65	
2	Site Preparation	Site Preparation	3/1/2016	4/30/2016	5	44	
3	Grading	Grading	5/1/2016	7/31/2016	5	65	
4	Building Construction	Building Construction	8/1/2016	7/31/2017	5	261	
5	Paving	Paving	8/1/2016	9/30/2016	5	10	
6	Architectural Coating	Architectural Coating	8/1/2016	10/31/2016	5	66	

Acres of Grading (Site Preparation Phase): 3.18

Acres of Grading (Grading Phase): 2.42

Acres of Paving: 0

Residential Indoor: 350,325; Residential Outdoor: 116,775; Non-Residential Indoor: 696,960; Non-Residential Outdoor: 232,320 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	8.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Scrapers	1	8.00	356	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Dozers	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	8.00	208	0.29
Building Construction	Forklifts	2	7.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Building Construction	Welders	3	8.00	46	0.30
Paving	Cement and Mortar Mixers	1	8.00	9	0.38
Paving	Pavers	1	8.00	89	0.42
Paving	Paving Equipment	1	8.00	82	0.36
Paving	Rollers	2	6.00	84	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	5	13.00	0.00	242.00	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	4	10.00	0.00	1,747.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	320.00	95.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	64.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.6400e-003	0.0000	9.6400e-003	1.4600e-003	0.0000	1.4600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0357	0.3624	0.2713	2.7000e-004		0.0210	0.0210		0.0196	0.0196	0.0000	25.7542	25.7542	6.9000e-003	0.0000	25.8990
Total	0.0357	0.3624	0.2713	2.7000e-004	9.6400e-003	0.0210	0.0306	1.4600e-003	0.0196	0.0210	0.0000	25.7542	25.7542	6.9000e-003	0.0000	25.8990

3.2 Demolition - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3100e-003	0.0131	0.0164	3.0000e-005	1.7100e-003	2.0000e-004	1.9100e-003	4.4000e-004	1.9000e-004	6.3000e-004	0.0000	2.8543	2.8543	2.0000e-005	0.0000	2.8547
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	6.7000e-004	7.0300e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0172	1.0172	6.0000e-005	0.0000	1.0184
Total	1.8700e-003	0.0138	0.0235	4.0000e-005	2.8100e-003	2.1000e-004	3.0200e-003	7.3000e-004	2.0000e-004	9.3000e-004	0.0000	3.8714	3.8714	8.0000e-005	0.0000	3.8731

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					4.3400e-003	0.0000	4.3400e-003	6.6000e-004	0.0000	6.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4800e-003	0.1357	0.1678	2.7000e-004		7.3400e-003	7.3400e-003		7.3400e-003	7.3400e-003	0.0000	25.7542	25.7542	6.9000e-003	0.0000	25.8989
Total	6.4800e-003	0.1357	0.1678	2.7000e-004	4.3400e-003	7.3400e-003	0.0117	6.6000e-004	7.3400e-003	8.0000e-003	0.0000	25.7542	25.7542	6.9000e-003	0.0000	25.8989

3.2 Demolition - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3100e-003	0.0131	0.0164	3.0000e-005	1.7100e-003	2.0000e-004	1.9100e-003	4.4000e-004	1.9000e-004	6.3000e-004	0.0000	2.8543	2.8543	2.0000e-005	0.0000	2.8547
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	6.7000e-004	7.0300e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0172	1.0172	6.0000e-005	0.0000	1.0184
Total	1.8700e-003	0.0138	0.0235	4.0000e-005	2.8100e-003	2.1000e-004	3.0200e-003	7.3000e-004	2.0000e-004	9.3000e-004	0.0000	3.8714	3.8714	8.0000e-005	0.0000	3.8731

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					0.0176	0.0000	0.0176	2.6700e-003	0.0000	2.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0622	0.6327	0.4799	5.0000e-004		0.0361	0.0361		0.0336	0.0336	0.0000	46.5802	46.5802	0.0125	0.0000	46.8426
Total	0.0622	0.6327	0.4799	5.0000e-004	0.0176	0.0361	0.0537	2.6700e-003	0.0336	0.0363	0.0000	46.5802	46.5802	0.0125	0.0000	46.8426

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0100e-003	0.0205	0.0271	6.0000e-005	1.8600e-003	3.0000e-004	2.1600e-003	4.9000e-004	2.7000e-004	7.7000e-004	0.0000	5.1391	5.1391	4.0000e-005	0.0000	5.1398
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	9.2000e-004	1.0900e-003	0.0115	2.0000e-005	2.0100e-003	2.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.5000e-004	0.0000	1.7894	1.7894	1.0000e-004	0.0000	1.7914
Total	2.9300e-003	0.0216	0.0386	8.0000e-005	3.8700e-003	3.2000e-004	4.1800e-003	1.0200e-003	2.8000e-004	1.3200e-003	0.0000	6.9285	6.9285	1.4000e-004	0.0000	6.9312

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					7.9200e-003	0.0000	7.9200e-003	1.2000e-003	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.2478	0.3064	5.0000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	46.5801	46.5801	0.0125	0.0000	46.8426
Total	0.0118	0.2478	0.3064	5.0000e-004	7.9200e-003	0.0134	0.0213	1.2000e-003	0.0134	0.0146	0.0000	46.5801	46.5801	0.0125	0.0000	46.8426

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0100e-003	0.0205	0.0271	6.0000e-005	1.8600e-003	3.0000e-004	2.1600e-003	4.9000e-004	2.7000e-004	7.7000e-004	0.0000	5.1391	5.1391	4.0000e-005	0.0000	5.1398
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	9.2000e-004	1.0900e-003	0.0115	2.0000e-005	2.0100e-003	2.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.5000e-004	0.0000	1.7894	1.7894	1.0000e-004	0.0000	1.7914
Total	2.9300e-003	0.0216	0.0386	8.0000e-005	3.8700e-003	3.2000e-004	4.1800e-003	1.0200e-003	2.8000e-004	1.3200e-003	0.0000	6.9285	6.9285	1.4000e-004	0.0000	6.9312

3.3 Site Preparation - 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					1.6900e-003	0.0000	1.6900e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0559	0.6428	0.3760	5.0000e-004		0.0311	0.0311		0.0286	0.0286	0.0000	46.8944	46.8944	0.0142	0.0000	47.1914
Total	0.0559	0.6428	0.3760	5.0000e-004	1.6900e-003	0.0311	0.0328	1.8000e-004	0.0286	0.0288	0.0000	46.8944	46.8944	0.0142	0.0000	47.1914

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	7.0000e-004	7.3800e-003	2.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1536	1.1536	6.0000e-005	0.0000	1.1549
Total	5.9000e-004	7.0000e-004	7.3800e-003	2.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1536	1.1536	6.0000e-005	0.0000	1.1549

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					7.6000e-004	0.0000	7.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.2394	0.3026	5.0000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	46.8943	46.8943	0.0141	0.0000	47.1914
Total	0.0122	0.2394	0.3026	5.0000e-004	7.6000e-004	0.0105	0.0113	8.0000e-005	0.0105	0.0106	0.0000	46.8943	46.8943	0.0141	0.0000	47.1914

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	7.0000e-004	7.3800e-003	2.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1536	1.1536	6.0000e-005	0.0000	1.1549
Total	5.9000e-004	7.0000e-004	7.3800e-003	2.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1536	1.1536	6.0000e-005	0.0000	1.1549

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					0.1743	0.0000	0.1743	0.0946	0.0000	0.0946	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1063	1.1428	0.7618	8.2000e-004		0.0596	0.0596		0.0548	0.0548	0.0000	77.4069	77.4069	0.0234	0.0000	77.8973
Total	0.1063	1.1428	0.7618	8.2000e-004	0.1743	0.0596	0.2339	0.0946	0.0548	0.1494	0.0000	77.4069	77.4069	0.0234	0.0000	77.8973

3.4 Grading - 2016

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	0.0225	0.2289	0.3030	6.3000e-004	0.0147	3.3400e-003	0.0180	4.0300e-003	3.0700e-003	7.1000e-003	0.0000	57.4152	57.4152	4.0000e-004	0.0000	57.4237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	1.3000e-003	0.0136	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.1302	2.1302	1.1000e-004	0.0000	2.1326
Total	0.0236	0.2302	0.3166	6.6000e-004	0.0171	3.3600e-003	0.0204	4.6600e-003	3.0900e-003	7.7500e-003	0.0000	59.5454	59.5454	5.1000e-004	0.0000	59.5563

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0785	0.0000	0.0785	0.0426	0.0000	0.0426	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.3930	0.5370	8.2000e-004		0.0182	0.0182		0.0182	0.0182	0.0000	77.4069	77.4069	0.0234	0.0000	77.8972
Total	0.0200	0.3930	0.5370	8.2000e-004	0.0785	0.0182	0.0967	0.0426	0.0182	0.0608	0.0000	77.4069	77.4069	0.0234	0.0000	77.8972

3.4 Grading - 2016

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	0.0225	0.2289	0.3030	6.3000e-004	0.0147	3.3400e-003	0.0180	4.0300e-003	3.0700e-003	7.1000e-003	0.0000	57.4152	57.4152	4.0000e-004	0.0000	57.4237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	1.3000e-003	0.0136	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.1302	2.1302	1.1000e-004	0.0000	2.1326
Total	0.0236	0.2302	0.3166	6.6000e-004	0.0171	3.3600e-003	0.0204	4.6600e-003	3.0900e-003	7.7500e-003	0.0000	59.5454	59.5454	5.1000e-004	0.0000	59.5563

3.5 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	0.1597	1.2006	0.7617	1.1600e-003		0.0715	0.0715		0.0680	0.0680	0.0000	101.2252	101.2252	0.0249	0.0000	101.7481
Total	0.1597	1.2006	0.7617	1.1600e-003		0.0715	0.0715		0.0680	0.0680	0.0000	101.2252	101.2252	0.0249	0.0000	101.7481

3.5 Building Construction - 2016

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	0.0698	0.4424	0.8609	1.0900e-003	0.0298	6.9200e-003	0.0367	8.5200e-003	6.3600e-003	0.0149	0.0000	98.6020	98.6020	7.9000e-004	0.0000	98.6186
Worker	0.0590	0.0704	0.7381	1.5500e-003	0.1293	9.8000e-004	0.1302	0.0344	9.0000e-004	0.0353	0.0000	115.3602	115.3602	6.1700e-003	0.0000	115.4897
Total	0.1288	0.5128	1.5990	2.6400e-003	0.1591	7.9000e-003	0.1670	0.0429	7.2600e-003	0.0502	0.0000	213.9622	213.9622	6.9600e-003	0.0000	214.1082

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	0.0321	0.6060	0.7294	1.1600e-003		0.0338	0.0338		0.0338	0.0338	0.0000	101.2250	101.2250	0.0249	0.0000	101.7480
Total	0.0321	0.6060	0.7294	1.1600e-003		0.0338	0.0338		0.0338	0.0338	0.0000	101.2250	101.2250	0.0249	0.0000	101.7480

3.5 Building Construction - 2016

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	0.0698	0.4424	0.8609	1.0900e-003	0.0298	6.9200e-003	0.0367	8.5200e-003	6.3600e-003	0.0149	0.0000	98.6020	98.6020	7.9000e-004	0.0000	98.6186
Worker	0.0590	0.0704	0.7381	1.5500e-003	0.1293	9.8000e-004	0.1302	0.0344	9.0000e-004	0.0353	0.0000	115.3602	115.3602	6.1700e-003	0.0000	115.4897
Total	0.1288	0.5128	1.5990	2.6400e-003	0.1591	7.9000e-003	0.1670	0.0429	7.2600e-003	0.0502	0.0000	213.9622	213.9622	6.9600e-003	0.0000	214.1082

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	tons/yr										MT/yr					
Off-Road	0.1989	1.5308	1.0174	1.5900e-003		0.0889	0.0889		0.0845	0.0845	0.0000	137.6768	137.6768	0.0331	0.0000	138.3724
Total	0.1989	1.5308	1.0174	1.5900e-003		0.0889	0.0889		0.0845	0.0845	0.0000	137.6768	137.6768	0.0331	0.0000	138.3724

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	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	0.0824	0.5375	1.0807	1.4900e-003	0.0409	8.0100e-003	0.0489	0.0117	7.3500e-003	0.0191	0.0000	133.0739	133.0739	1.0100e-003	0.0000	133.0952
Worker	0.0719	0.0863	0.9037	2.1200e-003	0.1774	1.3000e-003	0.1788	0.0472	1.2000e-003	0.0484	0.0000	152.0934	152.0934	7.7200e-003	0.0000	152.2556
Total	0.1542	0.6238	1.9843	3.6100e-003	0.2184	9.3100e-003	0.2277	0.0589	8.5500e-003	0.0675	0.0000	285.1673	285.1673	8.7300e-003	0.0000	285.3507

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	0.0440	0.8319	1.0013	1.5900e-003		0.0463	0.0463		0.0463	0.0463	0.0000	137.6766	137.6766	0.0331	0.0000	138.3722
Total	0.0440	0.8319	1.0013	1.5900e-003		0.0463	0.0463		0.0463	0.0463	0.0000	137.6766	137.6766	0.0331	0.0000	138.3722

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	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	0.0824	0.5375	1.0807	1.4900e-003	0.0409	8.0100e-003	0.0489	0.0117	7.3500e-003	0.0191	0.0000	133.0739	133.0739	1.0100e-003	0.0000	133.0952
Worker	0.0719	0.0863	0.9037	2.1200e-003	0.1774	1.3000e-003	0.1788	0.0472	1.2000e-003	0.0484	0.0000	152.0934	152.0934	7.7200e-003	0.0000	152.2556
Total	0.1542	0.6238	1.9843	3.6100e-003	0.2184	9.3100e-003	0.2277	0.0589	8.5500e-003	0.0675	0.0000	285.1673	285.1673	8.7300e-003	0.0000	285.3507

3.6 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	0.0357	0.3271	0.2184	2.9000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	26.7447	26.7447	7.9300e-003	0.0000	26.9112
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0357	0.3271	0.2184	2.9000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	26.7447	26.7447	7.9300e-003	0.0000	26.9112

3.6 Paving - 2016**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	1.3500e-003	0.0142	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.2122	2.2122	1.2000e-004	0.0000	2.2147
Total	1.1300e-003	1.3500e-003	0.0142	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.2122	2.2122	1.2000e-004	0.0000	2.2147

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.7900e-003	0.1550	0.2093	2.9000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	26.7446	26.7446	7.9300e-003	0.0000	26.9112
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.7900e-003	0.1550	0.2093	2.9000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	26.7446	26.7446	7.9300e-003	0.0000	26.9112

3.6 Paving - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	1.3500e-003	0.0142	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.2122	2.2122	1.2000e-004	0.0000	2.2147
Total	1.1300e-003	1.3500e-003	0.0142	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.2122	2.2122	1.2000e-004	0.0000	2.2147

3.7 Architectural Coating - 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					
Archit. Coating	4.3129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0783	0.0622	1.0000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	8.4257	8.4257	9.9000e-004	0.0000	8.4466
Total	4.3251	0.0783	0.0622	1.0000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	8.4257	8.4257	9.9000e-004	0.0000	8.4466

3.7 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0800e-003	8.4500e-003	0.0886	1.9000e-004	0.0155	1.2000e-004	0.0156	4.1300e-003	1.1000e-004	4.2300e-003	0.0000	13.8432	13.8432	7.4000e-004	0.0000	13.8588
Total	7.0800e-003	8.4500e-003	0.0886	1.9000e-004	0.0155	1.2000e-004	0.0156	4.1300e-003	1.1000e-004	4.2300e-003	0.0000	13.8432	13.8432	7.4000e-004	0.0000	13.8588

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					
Archit. Coating	4.3129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	0.0448	0.0605	1.0000e-004		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	8.4257	8.4257	9.9000e-004	0.0000	8.4466
Total	4.3149	0.0448	0.0605	1.0000e-004		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	8.4257	8.4257	9.9000e-004	0.0000	8.4466

3.7 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0800e-003	8.4500e-003	0.0886	1.9000e-004	0.0155	1.2000e-004	0.0156	4.1300e-003	1.1000e-004	4.2300e-003	0.0000	13.8432	13.8432	7.4000e-004	0.0000	13.8588
Total	7.0800e-003	8.4500e-003	0.0886	1.9000e-004	0.0155	1.2000e-004	0.0156	4.1300e-003	1.1000e-004	4.2300e-003	0.0000	13.8432	13.8432	7.4000e-004	0.0000	13.8588

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.6927	7.0131	34.3882	0.0653	4.5050	0.0904	4.5953	1.2069	0.0831	1.2900	0.0000	4,969.1859	4,969.1859	0.2169	0.0000	4,973.7401
Unmitigated	3.6927	7.0131	34.3882	0.0653	4.5050	0.0904	4.5953	1.2069	0.0831	1.2900	0.0000	4,969.1859	4,969.1859	0.2169	0.0000	4,973.7401

Phase 1 Option 2 Construction Emissions

CalEEMod Outputs (Winter, Summer, Annual)

Sac Commons - Phase 1 Construction_Option 2
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	241.82	1000sqft	2.08	241,825.00	0
Apartments High Rise	203.00	Dwelling Unit	0.76	171,000.00	406
Apartments Mid Rise	53.00	Dwelling Unit	0.23	36,050.00	106
Condo/Townhouse High Rise	224.00	Dwelling Unit	2.01	316,800.00	448
Strip Mall	32.12	1000sqft	0.20	32,122.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	65.00

tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	PhaseEndDate	1/2/2017	10/31/2016
tblConstructionPhase	PhaseEndDate	7/29/2016	7/31/2016
tblConstructionPhase	PhaseEndDate	8/14/2017	9/30/2016
tblConstructionPhase	PhaseEndDate	4/29/2016	4/30/2016
tblConstructionPhase	PhaseStartDate	10/1/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	8/1/2017	8/1/2016
tblFireplaces	NumberNoFireplace	224.00	120.00
tblGrading	AcresOfGrading	32.50	2.42
tblGrading	AcresOfGrading	66.00	3.18
tblGrading	MaterialExported	0.00	17,467.00
tblLandUse	LandUseSquareFeet	241,820.00	241,825.00
tblLandUse	LandUseSquareFeet	203,000.00	171,000.00
tblLandUse	LandUseSquareFeet	53,000.00	36,050.00
tblLandUse	LandUseSquareFeet	224,000.00	316,800.00
tblLandUse	LandUseSquareFeet	32,120.00	32,122.00
tblLandUse	LotAcreage	5.55	2.08
tblLandUse	LotAcreage	3.27	0.76
tblLandUse	LotAcreage	1.39	0.23
tblLandUse	LotAcreage	3.50	2.01
tblLandUse	LotAcreage	0.74	0.20
tblLandUse	Population	542.00	406.00
tblLandUse	Population	142.00	106.00
tblLandUse	Population	598.00	448.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00

tbloffRoadEquipment	HorsePower	174.00	162.00
tbloffRoadEquipment	HorsePower	125.00	89.00
tbloffRoadEquipment	HorsePower	130.00	82.00
tbloffRoadEquipment	HorsePower	80.00	84.00
tbloffRoadEquipment	HorsePower	255.00	358.00
tbloffRoadEquipment	HorsePower	255.00	358.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	174.00	162.00
tbloffRoadEquipment	HorsePower	361.00	356.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	LoadFactor	0.48	0.32
tbloffRoadEquipment	LoadFactor	0.73	0.49
tbloffRoadEquipment	LoadFactor	0.74	0.50
tbloffRoadEquipment	LoadFactor	0.41	0.48
tbloffRoadEquipment	LoadFactor	0.45	0.30
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	UsageHours	7.00	8.00
tbloffRoadEquipment	UsageHours	8.00	7.00

tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	103.04	55.20
tblSolidWaste	SolidWasteGenerationRate	33.73	37.93
tblTripsAndVMT	HaulingTripNumber	2,183.00	1,747.00
tblTripsAndVMT	VendorTripNumber	96.00	95.00
tblTripsAndVMT	WorkerTripNumber	457.00	320.00
tblTripsAndVMT	WorkerTripNumber	91.00	64.00
tblWater	IndoorWaterUseRate	14,594,501.74	7,818,483.07
tblWater	IndoorWaterUseRate	2,379,209.39	2,675,499.48
tblWater	OutdoorWaterUseRate	9,200,881.53	4,929,043.68
tblWater	OutdoorWaterUseRate	1,458,225.11	1,639,822.26

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					
2015	3.2646	32.6334	25.6092	0.0279	1.0917	1.8442	2.9359	0.1929	1.7174	1.9103	0.0000	2,850.3519	2,850.3519	0.6686	0.0000	2,864.3914
2016	138.3731	48.7684	58.6101	0.0961	5.9064	2.7974	7.8189	3.0568	2.6261	4.8162	0.0000	8,859.1113	8,859.1113	1.1242	0.0000	8,882.7190
2017	4.7675	28.0639	39.2876	0.0720	2.9924	1.2997	4.2921	0.8046	1.2323	2.0370	0.0000	6,417.4419	6,417.4419	0.6109	0.0000	6,430.2716
Total	146.4053	109.4656	123.5069	0.1959	9.9905	5.9413	15.0469	4.0543	5.5758	8.7635	0.0000	18,126.9051	18,126.9051	2.4037	0.0000	18,177.3820

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					
2015	0.7264	12.9221	16.6091	0.0279	0.6306	0.6568	1.2874	0.1231	0.6553	0.7784	0.0000	2,850.3519	2,850.3519	0.6686	0.0000	2,864.3914
2016	134.3990	28.6503	57.4680	0.0961	3.5932	1.3612	4.9545	1.4567	1.3492	2.3132	0.0000	8,859.1113	8,859.1113	1.1242	0.0000	8,882.7190
2017	2.7159	18.8069	39.0744	0.0720	2.9924	0.7365	3.7289	0.8046	0.7265	1.5312	0.0000	6,417.4419	6,417.4419	0.6109	0.0000	6,430.2716
Total	137.8414	60.3793	113.1515	0.1959	7.2162	2.7545	9.9707	2.3845	2.7311	4.6228	0.0000	18,126.9051	18,126.9051	2.4037	0.0000	18,177.3820

	ROG	NOx	CO	SO2	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	5.85	44.84	8.38	0.00	27.77	53.64	33.74	41.19	51.02	47.25	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	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	12/1/2015	2/29/2016	5	65	
2	Site Preparation	Site Preparation	3/1/2016	4/30/2016	5	44	
3	Grading	Grading	5/1/2016	7/31/2016	5	65	
4	Building Construction	Building Construction	8/1/2016	7/31/2017	5	261	
5	Paving	Paving	8/1/2016	9/30/2016	5	10	
6	Architectural Coating	Architectural Coating	8/1/2016	10/31/2016	5	66	

Acres of Grading (Site Preparation Phase): 3.18

Acres of Grading (Grading Phase): 2.42

Acres of Paving: 0

Residential Indoor: 350,325; Residential Outdoor: 116,775; Non-Residential Indoor: 696,960; Non-Residential Outdoor: 232,320 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	8.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Scrapers	1	8.00	356	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Dozers	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Building Construction	Cranes	1	8.00	208	0.29
Building Construction	Forklifts	2	7.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Building Construction	Welders	3	8.00	46	0.30
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	89	0.42
Paving	Paving Equipment	1	8.00	82	0.36
Paving	Rollers	2	8.00	84	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	5	13.00	0.00	242.00	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	4	10.00	0.00	1,747.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	320.00	95.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	64.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2015

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					0.8384	0.0000	0.8384	0.1269	0.0000	0.1269			0.0000			0.0000
Off-Road	3.1014	31.5118	23.5894	0.0239		1.8259	1.8259		1.7007	1.7007		2,468.619 2	2,468.619 2	0.6609		2,482.498 6
Total	3.1014	31.5118	23.5894	0.0239	0.8384	1.8259	2.6643	0.1269	1.7007	1.8276		2,468.619 2	2,468.619 2	0.6609		2,482.498 6

3.2 Demolition - 2015

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	0.1050	1.0691	1.3190	2.7000e-003	0.1544	0.0175	0.1719	0.0397	0.0161	0.0558		273.8683	273.8683	2.1000e-003		273.9125
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	0.0582	0.0525	0.7008	1.2700e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		107.8643	107.8643	5.5200e-003		107.9803
Total	0.1632	1.1216	2.0198	3.9700e-003	0.2533	0.0182	0.2716	0.0660	0.0168	0.0827		381.7327	381.7327	7.6200e-003		381.8928

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					0.3773	0.0000	0.3773	0.0571	0.0000	0.0571			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,468.6192	2,468.6192	0.6609		2,482.4986
Total	0.5633	11.8005	14.5893	0.0239	0.3773	0.6386	1.0158	0.0571	0.6386	0.6957	0.0000	2,468.6192	2,468.6192	0.6609		2,482.4986

3.2 Demolition - 2015

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	0.1050	1.0691	1.3190	2.7000e-003	0.1544	0.0175	0.1719	0.0397	0.0161	0.0558		273.8683	273.8683	2.1000e-003		273.9125
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	0.0582	0.0525	0.7008	1.2700e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		107.8643	107.8643	5.5200e-003		107.9803
Total	0.1632	1.1216	2.0198	3.9700e-003	0.2533	0.0182	0.2716	0.0660	0.0168	0.0827		381.7327	381.7327	7.6200e-003		381.8928

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					0.8384	0.0000	0.8384	0.1269	0.0000	0.1269			0.0000			0.0000
Off-Road	2.9624	30.1262	22.8503	0.0239		1.7205	1.7205		1.6015	1.6015		2,445.0407	2,445.0407	0.6560		2,458.8170
Total	2.9624	30.1262	22.8503	0.0239	0.8384	1.7205	2.5589	0.1269	1.6015	1.7285		2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.0886	0.9157	1.1683	2.6900e-003	0.0915	0.0142	0.1057	0.0243	0.0131	0.0374		270.0314	270.0314	1.8800e-003		270.0710
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	0.0521	0.0469	0.6273	1.2600e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		103.9259	103.9259	5.0200e-003		104.0314
Total	0.1407	0.9625	1.7956	3.9500e-003	0.1904	0.0150	0.2053	0.0505	0.0138	0.0643		373.9573	373.9573	6.9000e-003		374.1023

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					0.3773	0.0000	0.3773	0.0571	0.0000	0.0571			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170
Total	0.5633	11.8005	14.5893	0.0239	0.3773	0.6386	1.0158	0.0571	0.6386	0.6957	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.0886	0.9157	1.1683	2.6900e-003	0.0915	0.0142	0.1057	0.0243	0.0131	0.0374		270.0314	270.0314	1.8800e-003		270.0710
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	0.0521	0.0469	0.6273	1.2600e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		103.9259	103.9259	5.0200e-003		104.0314
Total	0.1407	0.9625	1.7956	3.9500e-003	0.1904	0.0150	0.2053	0.0505	0.0138	0.0643		373.9573	373.9573	6.9000e-003		374.1023

3.3 Site Preparation - 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					0.0767	0.0000	0.0767	8.2800e-003	0.0000	8.2800e-003			0.0000			0.0000
Off-Road	2.5422	29.2182	17.0887	0.0226		1.4119	1.4119		1.2989	1.2989		2,349.6453	2,349.6453	0.7087		2,364.5287
Total	2.5422	29.2182	17.0887	0.0226	0.0767	1.4119	1.4885	8.2800e-003	1.2989	1.3072		2,349.6453	2,349.6453	0.7087		2,364.5287

3.3 Site Preparation - 2016

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	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003			64.0193
Total	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003			64.0193

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					0.0345	0.0000	0.0345	3.7200e-003	0.0000	3.7200e-003			0.0000				0.0000
Off-Road	0.5536	10.8832	13.7548	0.0226		0.4786	0.4786		0.4786	0.4786	0.0000	2,349.6453	2,349.6453	0.7087			2,364.5287
Total	0.5536	10.8832	13.7548	0.0226	0.0345	0.4786	0.5131	3.7200e-003	0.4786	0.4824	0.0000	2,349.6453	2,349.6453	0.7087			2,364.5287

3.3 Site Preparation - 2016

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	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003		64.0193
Total	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003		64.0193

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					5.3644	0.0000	5.3644	2.9091	0.0000	2.9091			0.0000			0.0000
Off-Road	3.2381	34.8495	23.2058	0.0249		1.8093	1.8093		1.6645	1.6645		2,594.1490	2,594.1490	0.7825		2,610.5812
Total	3.2381	34.8495	23.2058	0.0249	5.3644	1.8093	7.1737	2.9091	1.6645	4.5737		2,594.1490	2,594.1490	0.7825		2,610.5812

3.4 Grading - 2016

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	0.6399	6.6101	8.4337	0.0194	0.4659	0.1027	0.5686	0.1275	0.0944	0.2219		1,949.3587	1,949.3587	0.0136		1,949.6444
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	0.0401	0.0361	0.4826	9.7000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		79.9430	79.9430	3.8600e-003		80.0241
Total	0.6799	6.6462	8.9162	0.0204	0.5420	0.1033	0.6453	0.1476	0.0949	0.2425		2,029.3017	2,029.3017	0.0175		2,029.6686

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					2.4140	0.0000	2.4140	1.3091	0.0000	1.3091			0.0000			0.0000
Off-Road	0.6074	11.9233	16.2979	0.0249		0.5482	0.5482		0.5482	0.5482	0.0000	2,594.1490	2,594.1490	0.7825		2,610.5812
Total	0.6074	11.9233	16.2979	0.0249	2.4140	0.5482	2.9621	1.3091	0.5482	1.8573	0.0000	2,594.1490	2,594.1490	0.7825		2,610.5812

3.4 Grading - 2016

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	0.6399	6.6101	8.4337	0.0194	0.4659	0.1027	0.5686	0.1275	0.0944	0.2219		1,949.3587	1,949.3587	0.0136		1,949.6444
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	0.0401	0.0361	0.4826	9.7000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		79.9430	79.9430	3.8600e-003		80.0241
Total	0.6799	6.6462	8.9162	0.0204	0.5420	0.1033	0.6453	0.1476	0.0949	0.2425		2,029.3017	2,029.3017	0.0175		2,029.6686

3.5 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	2.9039	21.8299	13.8491	0.0210		1.2998	1.2998		1.2368	1.2368		2,028.7571	2,028.7571	0.4991		2,039.2379
Total	2.9039	21.8299	13.8491	0.0210		1.2998	1.2998		1.2368	1.2368		2,028.7571	2,028.7571	0.4991		2,039.2379

3.5 Building Construction - 2016

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	1.1478	7.6301	13.3874	0.0199	0.5580	0.1251	0.6831	0.1589	0.1148	0.2737		1,983.442 2	1,983.442 2	0.0156			1,983.769 9
Worker	1.2824	1.1536	15.4423	0.0311	2.4342	0.0179	2.4521	0.6457	0.0164	0.6621		2,558.176 9	2,558.176 9	0.1236			2,560.772 1
Total	2.4303	8.7837	28.8296	0.0510	2.9923	0.1430	3.1352	0.8046	0.1313	0.9359		4,541.619 1	4,541.619 1	0.1392			4,544.542 1

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	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,028.757 1	2,028.757 1	0.4991			2,039.237 9
Total	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,028.757 1	2,028.757 1	0.4991			2,039.237 9

3.5 Building Construction - 2016**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	1.1478	7.6301	13.3874	0.0199	0.5580	0.1251	0.6831	0.1589	0.1148	0.2737		1,983.442 2	1,983.442 2	0.0156			1,983.769 9
Worker	1.2824	1.1536	15.4423	0.0311	2.4342	0.0179	2.4521	0.6457	0.0164	0.6621		2,558.176 9	2,558.176 9	0.1236			2,560.772 1
Total	2.4303	8.7837	28.8296	0.0510	2.9923	0.1430	3.1352	0.8046	0.1313	0.9359		4,541.619 1	4,541.619 1	0.1392			4,544.542 1

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	2.6343	20.2752	13.4750	0.0210		1.1770	1.1770		1.1196	1.1196		2,010.101 2	2,010.101 2	0.4837			2,020.257 9
Total	2.6343	20.2752	13.4750	0.0210		1.1770	1.1770		1.1196	1.1196		2,010.101 2	2,010.101 2	0.4837			2,020.257 9

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	0.9898	6.7575	11.9883	0.0198	0.5582	0.1054	0.6636	0.1589	0.0968	0.2557		1,950.0636	1,950.0636	0.0145			1,950.3690
Worker	1.1434	1.0312	13.8243	0.0311	2.4342	0.0173	2.4515	0.6457	0.0159	0.6616		2,457.2771	2,457.2771	0.1127			2,459.6447
Total	2.1332	7.7887	25.8126	0.0510	2.9924	0.1227	3.1151	0.8046	0.1128	0.9174		4,407.3407	4,407.3407	0.1273			4,410.0137

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	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,010.1012	2,010.1012	0.4837			2,020.2579
Total	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,010.1012	2,010.1012	0.4837			2,020.2579

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	0.9898	6.7575	11.9883	0.0198	0.5582	0.1054	0.6636	0.1589	0.0968	0.2557		1,950.0636	1,950.0636	0.0145			1,950.3690
Worker	1.1434	1.0312	13.8243	0.0311	2.4342	0.0173	2.4515	0.6457	0.0159	0.6616		2,457.2771	2,457.2771	0.1127			2,459.6447
Total	2.1332	7.7887	25.8126	0.0510	2.9924	0.1227	3.1151	0.8046	0.1128	0.9174		4,407.3407	4,407.3407	0.1273			4,410.0137

3.6 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	1.7824	16.2886	10.8632	0.0144		1.2192	1.2192		1.1228	1.1228		1,469.5531	1,469.5531	0.4333			1,478.6519
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7824	16.2886	10.8632	0.0144		1.2192	1.2192		1.1228	1.1228		1,469.5531	1,469.5531	0.4333			1,478.6519

3.6 Paving - 2016

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	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362

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	0.3354	7.6591	10.3426	0.0144		0.5367	0.5367		0.5367	0.5367	0.0000	1,469.5531	1,469.5531	0.4333			1,478.6519
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.3354	7.6591	10.3426	0.0144		0.5367	0.5367		0.5367	0.5367	0.0000	1,469.5531	1,469.5531	0.4333			1,478.6519

3.6 Paving - 2016

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	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362

3.7 Architectural Coating - 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						
Archit. Coating	130.6944					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.2456	1.5815	1.2559	1.9800e-003		0.1311	0.1311		0.1311	0.1311		187.6320	187.6320	0.0221			188.0966
Total	130.9400	1.5815	1.2559	1.9800e-003		0.1311	0.1311		0.1311	0.1311		187.6320	187.6320	0.0221			188.0966

3.7 Architectural Coating - 2016

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	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247			512.1544
Total	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247			512.1544

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	130.6944					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0396	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0221			188.0966
Total	130.7340	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0221			188.0966

3.7 Architectural Coating - 2016

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	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247		512.1544
Total	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247		512.1544

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.8702	30.2474	163.1109	0.3377	22.3801	0.4256	22.8057	5.9784	0.3916	6.3700		28,238.0939	28,238.0939	1.1229		28,261.6750
Unmitigated	17.8702	30.2474	163.1109	0.3377	22.3801	0.4256	22.8057	5.9784	0.3916	6.3700		28,238.0939	28,238.0939	1.1229		28,261.6750

Sac Commons - Phase 1 Construction_Option 2
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	241.82	1000sqft	2.08	241,825.00	0
Apartments High Rise	203.00	Dwelling Unit	0.76	171,000.00	406
Apartments Mid Rise	53.00	Dwelling Unit	0.23	36,050.00	106
Condo/Townhouse High Rise	224.00	Dwelling Unit	2.01	316,800.00	448
Strip Mall	32.12	1000sqft	0.20	32,122.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	65.00

tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	PhaseEndDate	1/2/2017	10/31/2016
tblConstructionPhase	PhaseEndDate	7/29/2016	7/31/2016
tblConstructionPhase	PhaseEndDate	8/14/2017	9/30/2016
tblConstructionPhase	PhaseEndDate	4/29/2016	4/30/2016
tblConstructionPhase	PhaseStartDate	10/1/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	8/1/2017	8/1/2016
tblFireplaces	NumberNoFireplace	224.00	120.00
tblGrading	AcresOfGrading	32.50	2.42
tblGrading	AcresOfGrading	66.00	3.18
tblGrading	MaterialExported	0.00	17,467.00
tblLandUse	LandUseSquareFeet	241,820.00	241,825.00
tblLandUse	LandUseSquareFeet	203,000.00	171,000.00
tblLandUse	LandUseSquareFeet	53,000.00	36,050.00
tblLandUse	LandUseSquareFeet	224,000.00	316,800.00
tblLandUse	LandUseSquareFeet	32,120.00	32,122.00
tblLandUse	LotAcreage	5.55	2.08
tblLandUse	LotAcreage	3.27	0.76
tblLandUse	LotAcreage	1.39	0.23
tblLandUse	LotAcreage	3.50	2.01
tblLandUse	LotAcreage	0.74	0.20
tblLandUse	Population	542.00	406.00
tblLandUse	Population	142.00	106.00
tblLandUse	Population	598.00	448.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00

tbloffRoadEquipment	HorsePower	174.00	162.00
tbloffRoadEquipment	HorsePower	125.00	89.00
tbloffRoadEquipment	HorsePower	130.00	82.00
tbloffRoadEquipment	HorsePower	80.00	84.00
tbloffRoadEquipment	HorsePower	255.00	358.00
tbloffRoadEquipment	HorsePower	255.00	358.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	174.00	162.00
tbloffRoadEquipment	HorsePower	361.00	356.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	LoadFactor	0.48	0.32
tbloffRoadEquipment	LoadFactor	0.73	0.49
tbloffRoadEquipment	LoadFactor	0.74	0.50
tbloffRoadEquipment	LoadFactor	0.41	0.48
tbloffRoadEquipment	LoadFactor	0.45	0.30
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	UsageHours	7.00	8.00
tbloffRoadEquipment	UsageHours	8.00	7.00

tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	103.04	55.20
tblSolidWaste	SolidWasteGenerationRate	33.73	37.93
tblTripsAndVMT	HaulingTripNumber	2,183.00	1,747.00
tblTripsAndVMT	VendorTripNumber	96.00	95.00
tblTripsAndVMT	WorkerTripNumber	457.00	320.00
tblTripsAndVMT	WorkerTripNumber	91.00	64.00
tblWater	IndoorWaterUseRate	14,594,501.74	7,818,483.07
tblWater	IndoorWaterUseRate	2,379,209.39	2,675,499.48
tblWater	OutdoorWaterUseRate	9,200,881.53	4,929,043.68
tblWater	OutdoorWaterUseRate	1,458,225.11	1,639,822.26

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					
2015	3.2646	32.6334	25.6092	0.0279	1.0917	1.8442	2.9359	0.1929	1.7174	1.9103	0.0000	2,850.3519	2,850.3519	0.6686	0.0000	2,864.3914
2016	138.3731	48.7684	58.6101	0.0961	5.9064	2.7974	7.8189	3.0568	2.6261	4.8162	0.0000	8,859.1113	8,859.1113	1.1242	0.0000	8,882.7190
2017	4.7675	28.0639	39.2876	0.0720	2.9924	1.2997	4.2921	0.8046	1.2323	2.0370	0.0000	6,417.4419	6,417.4419	0.6109	0.0000	6,430.2716
Total	146.4053	109.4656	123.5069	0.1959	9.9905	5.9413	15.0469	4.0543	5.5758	8.7635	0.0000	18,126.9051	18,126.9051	2.4037	0.0000	18,177.3820

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					
2015	0.7264	12.9221	16.6091	0.0279	0.6306	0.6568	1.2874	0.1231	0.6553	0.7784	0.0000	2,850.3519	2,850.3519	0.6686	0.0000	2,864.3914
2016	134.3990	28.6503	57.4680	0.0961	3.5932	1.3612	4.9545	1.4567	1.3492	2.3132	0.0000	8,859.1113	8,859.1113	1.1242	0.0000	8,882.7190
2017	2.7159	18.8069	39.0744	0.0720	2.9924	0.7365	3.7289	0.8046	0.7265	1.5312	0.0000	6,417.4419	6,417.4419	0.6109	0.0000	6,430.2716
Total	137.8414	60.3793	113.1515	0.1959	7.2162	2.7545	9.9707	2.3845	2.7311	4.6228	0.0000	18,126.9051	18,126.9051	2.4037	0.0000	18,177.3820

	ROG	NOx	CO	SO2	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	5.85	44.84	8.38	0.00	27.77	53.64	33.74	41.19	51.02	47.25	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	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	12/1/2015	2/29/2016	5	65	
2	Site Preparation	Site Preparation	3/1/2016	4/30/2016	5	44	
3	Grading	Grading	5/1/2016	7/31/2016	5	65	
4	Building Construction	Building Construction	8/1/2016	7/31/2017	5	261	
5	Paving	Paving	8/1/2016	9/30/2016	5	10	
6	Architectural Coating	Architectural Coating	8/1/2016	10/31/2016	5	66	

Acres of Grading (Site Preparation Phase): 3.18

Acres of Grading (Grading Phase): 2.42

Acres of Paving: 0

Residential Indoor: 350,325; Residential Outdoor: 116,775; Non-Residential Indoor: 696,960; Non-Residential Outdoor: 232,320 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	8.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Scrapers	1	8.00	356	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Dozers	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Building Construction	Cranes	1	8.00	208	0.29
Building Construction	Forklifts	2	7.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Building Construction	Welders	3	8.00	46	0.30
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	89	0.42
Paving	Paving Equipment	1	8.00	82	0.36
Paving	Rollers	2	8.00	84	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	5	13.00	0.00	242.00	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	4	10.00	0.00	1,747.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	320.00	95.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	64.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2015

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					0.8384	0.0000	0.8384	0.1269	0.0000	0.1269			0.0000			0.0000
Off-Road	3.1014	31.5118	23.5894	0.0239		1.8259	1.8259		1.7007	1.7007		2,468.619 2	2,468.619 2	0.6609		2,482.498 6
Total	3.1014	31.5118	23.5894	0.0239	0.8384	1.8259	2.6643	0.1269	1.7007	1.8276		2,468.619 2	2,468.619 2	0.6609		2,482.498 6

3.2 Demolition - 2015**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	0.1050	1.0691	1.3190	2.7000e-003	0.1544	0.0175	0.1719	0.0397	0.0161	0.0558		273.8683	273.8683	2.1000e-003		273.9125
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	0.0582	0.0525	0.7008	1.2700e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		107.8643	107.8643	5.5200e-003		107.9803
Total	0.1632	1.1216	2.0198	3.9700e-003	0.2533	0.0182	0.2716	0.0660	0.0168	0.0827		381.7327	381.7327	7.6200e-003		381.8928

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					0.3773	0.0000	0.3773	0.0571	0.0000	0.0571			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,468.6192	2,468.6192	0.6609		2,482.4986
Total	0.5633	11.8005	14.5893	0.0239	0.3773	0.6386	1.0158	0.0571	0.6386	0.6957	0.0000	2,468.6192	2,468.6192	0.6609		2,482.4986

3.2 Demolition - 2015

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	0.1050	1.0691	1.3190	2.7000e-003	0.1544	0.0175	0.1719	0.0397	0.0161	0.0558		273.8683	273.8683	2.1000e-003		273.9125
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	0.0582	0.0525	0.7008	1.2700e-003	0.0989	7.6000e-004	0.0997	0.0262	7.0000e-004	0.0269		107.8643	107.8643	5.5200e-003		107.9803
Total	0.1632	1.1216	2.0198	3.9700e-003	0.2533	0.0182	0.2716	0.0660	0.0168	0.0827		381.7327	381.7327	7.6200e-003		381.8928

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					0.8384	0.0000	0.8384	0.1269	0.0000	0.1269			0.0000			0.0000
Off-Road	2.9624	30.1262	22.8503	0.0239		1.7205	1.7205		1.6015	1.6015		2,445.0407	2,445.0407	0.6560		2,458.8170
Total	2.9624	30.1262	22.8503	0.0239	0.8384	1.7205	2.5589	0.1269	1.6015	1.7285		2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.0886	0.9157	1.1683	2.6900e-003	0.0915	0.0142	0.1057	0.0243	0.0131	0.0374		270.0314	270.0314	1.8800e-003		270.0710
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	0.0521	0.0469	0.6273	1.2600e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		103.9259	103.9259	5.0200e-003		104.0314
Total	0.1407	0.9625	1.7956	3.9500e-003	0.1904	0.0150	0.2053	0.0505	0.0138	0.0643		373.9573	373.9573	6.9000e-003		374.1023

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					0.3773	0.0000	0.3773	0.0571	0.0000	0.0571			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170
Total	0.5633	11.8005	14.5893	0.0239	0.3773	0.6386	1.0158	0.0571	0.6386	0.6957	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.0886	0.9157	1.1683	2.6900e-003	0.0915	0.0142	0.1057	0.0243	0.0131	0.0374		270.0314	270.0314	1.8800e-003		270.0710
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	0.0521	0.0469	0.6273	1.2600e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		103.9259	103.9259	5.0200e-003		104.0314
Total	0.1407	0.9625	1.7956	3.9500e-003	0.1904	0.0150	0.2053	0.0505	0.0138	0.0643		373.9573	373.9573	6.9000e-003		374.1023

3.3 Site Preparation - 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					0.0767	0.0000	0.0767	8.2800e-003	0.0000	8.2800e-003			0.0000			0.0000
Off-Road	2.5422	29.2182	17.0887	0.0226		1.4119	1.4119		1.2989	1.2989		2,349.6453	2,349.6453	0.7087		2,364.5287
Total	2.5422	29.2182	17.0887	0.0226	0.0767	1.4119	1.4885	8.2800e-003	1.2989	1.3072		2,349.6453	2,349.6453	0.7087		2,364.5287

3.3 Site Preparation - 2016

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	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003			64.0193
Total	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003			64.0193

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					0.0345	0.0000	0.0345	3.7200e-003	0.0000	3.7200e-003			0.0000				0.0000
Off-Road	0.5536	10.8832	13.7548	0.0226		0.4786	0.4786		0.4786	0.4786	0.0000	2,349.6453	2,349.6453	0.7087			2,364.5287
Total	0.5536	10.8832	13.7548	0.0226	0.0345	0.4786	0.5131	3.7200e-003	0.4786	0.4824	0.0000	2,349.6453	2,349.6453	0.7087			2,364.5287

3.3 Site Preparation - 2016

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	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003		64.0193
Total	0.0321	0.0288	0.3861	7.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		63.9544	63.9544	3.0900e-003		64.0193

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					5.3644	0.0000	5.3644	2.9091	0.0000	2.9091			0.0000			0.0000
Off-Road	3.2381	34.8495	23.2058	0.0249		1.8093	1.8093		1.6645	1.6645		2,594.1490	2,594.1490	0.7825		2,610.5812
Total	3.2381	34.8495	23.2058	0.0249	5.3644	1.8093	7.1737	2.9091	1.6645	4.5737		2,594.1490	2,594.1490	0.7825		2,610.5812

3.4 Grading - 2016

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	0.6399	6.6101	8.4337	0.0194	0.4659	0.1027	0.5686	0.1275	0.0944	0.2219		1,949.3587	1,949.3587	0.0136		1,949.6444
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	0.0401	0.0361	0.4826	9.7000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		79.9430	79.9430	3.8600e-003		80.0241
Total	0.6799	6.6462	8.9162	0.0204	0.5420	0.1033	0.6453	0.1476	0.0949	0.2425		2,029.3017	2,029.3017	0.0175		2,029.6686

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					2.4140	0.0000	2.4140	1.3091	0.0000	1.3091			0.0000			0.0000
Off-Road	0.6074	11.9233	16.2979	0.0249		0.5482	0.5482		0.5482	0.5482	0.0000	2,594.1490	2,594.1490	0.7825		2,610.5812
Total	0.6074	11.9233	16.2979	0.0249	2.4140	0.5482	2.9621	1.3091	0.5482	1.8573	0.0000	2,594.1490	2,594.1490	0.7825		2,610.5812

3.4 Grading - 2016

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	0.6399	6.6101	8.4337	0.0194	0.4659	0.1027	0.5686	0.1275	0.0944	0.2219		1,949.3587	1,949.3587	0.0136		1,949.6444
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	0.0401	0.0361	0.4826	9.7000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		79.9430	79.9430	3.8600e-003		80.0241
Total	0.6799	6.6462	8.9162	0.0204	0.5420	0.1033	0.6453	0.1476	0.0949	0.2425		2,029.3017	2,029.3017	0.0175		2,029.6686

3.5 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	2.9039	21.8299	13.8491	0.0210		1.2998	1.2998		1.2368	1.2368		2,028.7571	2,028.7571	0.4991		2,039.2379
Total	2.9039	21.8299	13.8491	0.0210		1.2998	1.2998		1.2368	1.2368		2,028.7571	2,028.7571	0.4991		2,039.2379

3.5 Building Construction - 2016

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	1.1478	7.6301	13.3874	0.0199	0.5580	0.1251	0.6831	0.1589	0.1148	0.2737		1,983.442 2	1,983.442 2	0.0156			1,983.769 9
Worker	1.2824	1.1536	15.4423	0.0311	2.4342	0.0179	2.4521	0.6457	0.0164	0.6621		2,558.176 9	2,558.176 9	0.1236			2,560.772 1
Total	2.4303	8.7837	28.8296	0.0510	2.9923	0.1430	3.1352	0.8046	0.1313	0.9359		4,541.619 1	4,541.619 1	0.1392			4,544.542 1

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	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,028.757 1	2,028.757 1	0.4991			2,039.237 9
Total	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,028.757 1	2,028.757 1	0.4991			2,039.237 9

3.5 Building Construction - 2016

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	1.1478	7.6301	13.3874	0.0199	0.5580	0.1251	0.6831	0.1589	0.1148	0.2737		1,983.442 2	1,983.442 2	0.0156			1,983.769 9
Worker	1.2824	1.1536	15.4423	0.0311	2.4342	0.0179	2.4521	0.6457	0.0164	0.6621		2,558.176 9	2,558.176 9	0.1236			2,560.772 1
Total	2.4303	8.7837	28.8296	0.0510	2.9923	0.1430	3.1352	0.8046	0.1313	0.9359		4,541.619 1	4,541.619 1	0.1392			4,544.542 1

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	2.6343	20.2752	13.4750	0.0210		1.1770	1.1770		1.1196	1.1196		2,010.101 2	2,010.101 2	0.4837			2,020.257 9
Total	2.6343	20.2752	13.4750	0.0210		1.1770	1.1770		1.1196	1.1196		2,010.101 2	2,010.101 2	0.4837			2,020.257 9

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	0.9898	6.7575	11.9883	0.0198	0.5582	0.1054	0.6636	0.1589	0.0968	0.2557		1,950.0636	1,950.0636	0.0145			1,950.3690
Worker	1.1434	1.0312	13.8243	0.0311	2.4342	0.0173	2.4515	0.6457	0.0159	0.6616		2,457.2771	2,457.2771	0.1127			2,459.6447
Total	2.1332	7.7887	25.8126	0.0510	2.9924	0.1227	3.1151	0.8046	0.1128	0.9174		4,407.3407	4,407.3407	0.1273			4,410.0137

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	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,010.1012	2,010.1012	0.4837			2,020.2579
Total	0.5827	11.0182	13.2618	0.0210		0.6138	0.6138		0.6138	0.6138	0.0000	2,010.1012	2,010.1012	0.4837			2,020.2579

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	0.9898	6.7575	11.9883	0.0198	0.5582	0.1054	0.6636	0.1589	0.0968	0.2557		1,950.0636	1,950.0636	0.0145			1,950.3690
Worker	1.1434	1.0312	13.8243	0.0311	2.4342	0.0173	2.4515	0.6457	0.0159	0.6616		2,457.2771	2,457.2771	0.1127			2,459.6447
Total	2.1332	7.7887	25.8126	0.0510	2.9924	0.1227	3.1151	0.8046	0.1128	0.9174		4,407.3407	4,407.3407	0.1273			4,410.0137

3.6 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	1.7824	16.2886	10.8632	0.0144		1.2192	1.2192		1.1228	1.1228		1,469.5531	1,469.5531	0.4333			1,478.6519
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7824	16.2886	10.8632	0.0144		1.2192	1.2192		1.1228	1.1228		1,469.5531	1,469.5531	0.4333			1,478.6519

3.6 Paving - 2016

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	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362

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	0.3354	7.6591	10.3426	0.0144		0.5367	0.5367		0.5367	0.5367	0.0000	1,469.5531	1,469.5531	0.4333			1,478.6519
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.3354	7.6591	10.3426	0.0144		0.5367	0.5367		0.5367	0.5367	0.0000	1,469.5531	1,469.5531	0.4333			1,478.6519

3.6 Paving - 2016

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	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362

3.7 Architectural Coating - 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						
Archit. Coating	130.6944					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2456	1.5815	1.2559	1.9800e-003		0.1311	0.1311		0.1311	0.1311		187.6320	187.6320	0.0221			188.0966
Total	130.9400	1.5815	1.2559	1.9800e-003		0.1311	0.1311		0.1311	0.1311		187.6320	187.6320	0.0221			188.0966

3.7 Architectural Coating - 2016

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	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247			512.1544
Total	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247			512.1544

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	130.6944					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0396	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0221			188.0966
Total	130.7340	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0221			188.0966

3.7 Architectural Coating - 2016

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	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247			512.1544
Total	0.2565	0.2307	3.0885	6.2300e-003	0.4869	3.5800e-003	0.4904	0.1291	3.2900e-003	0.1324		511.6354	511.6354	0.0247			512.1544

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	17.8702	30.2474	163.1109	0.3377	22.3801	0.4256	22.8057	5.9784	0.3916	6.3700		28,238.0939	28,238.0939	1.1229			28,261.6750
Unmitigated	17.8702	30.2474	163.1109	0.3377	22.3801	0.4256	22.8057	5.9784	0.3916	6.3700		28,238.0939	28,238.0939	1.1229			28,261.6750

Sac Commons - Phase 1 Construction_Option 2
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	241.82	1000sqft	2.08	241,825.00	0
Apartments High Rise	203.00	Dwelling Unit	0.76	171,000.00	406
Apartments Mid Rise	53.00	Dwelling Unit	0.23	36,050.00	106
Condo/Townhouse High Rise	224.00	Dwelling Unit	2.01	316,800.00	448
Strip Mall	32.12	1000sqft	0.20	32,122.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	65.00

tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	PhaseEndDate	1/2/2017	10/31/2016
tblConstructionPhase	PhaseEndDate	7/29/2016	7/31/2016
tblConstructionPhase	PhaseEndDate	8/14/2017	9/30/2016
tblConstructionPhase	PhaseEndDate	4/29/2016	4/30/2016
tblConstructionPhase	PhaseStartDate	10/1/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	8/1/2017	8/1/2016
tblFireplaces	NumberNoFireplace	224.00	120.00
tblGrading	AcresOfGrading	32.50	2.42
tblGrading	AcresOfGrading	66.00	3.18
tblGrading	MaterialExported	0.00	17,467.00
tblLandUse	LandUseSquareFeet	241,820.00	241,825.00
tblLandUse	LandUseSquareFeet	203,000.00	171,000.00
tblLandUse	LandUseSquareFeet	53,000.00	36,050.00
tblLandUse	LandUseSquareFeet	224,000.00	316,800.00
tblLandUse	LandUseSquareFeet	32,120.00	32,122.00
tblLandUse	LotAcreage	5.55	2.08
tblLandUse	LotAcreage	3.27	0.76
tblLandUse	LotAcreage	1.39	0.23
tblLandUse	LotAcreage	3.50	2.01
tblLandUse	LotAcreage	0.74	0.20
tblLandUse	Population	542.00	406.00
tblLandUse	Population	142.00	106.00
tblLandUse	Population	598.00	448.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00

tbloffRoadEquipment	HorsePower	174.00	162.00
tbloffRoadEquipment	HorsePower	125.00	89.00
tbloffRoadEquipment	HorsePower	130.00	82.00
tbloffRoadEquipment	HorsePower	80.00	84.00
tbloffRoadEquipment	HorsePower	255.00	358.00
tbloffRoadEquipment	HorsePower	255.00	358.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	174.00	162.00
tbloffRoadEquipment	HorsePower	361.00	356.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	HorsePower	97.00	75.00
tbloffRoadEquipment	LoadFactor	0.48	0.32
tbloffRoadEquipment	LoadFactor	0.73	0.49
tbloffRoadEquipment	LoadFactor	0.74	0.50
tbloffRoadEquipment	LoadFactor	0.41	0.48
tbloffRoadEquipment	LoadFactor	0.45	0.30
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	UsageHours	7.00	8.00
tbloffRoadEquipment	UsageHours	8.00	7.00

tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	103.04	55.20
tblSolidWaste	SolidWasteGenerationRate	33.73	37.93
tblTripsAndVMT	HaulingTripNumber	2,183.00	1,747.00
tblTripsAndVMT	VendorTripNumber	96.00	95.00
tblTripsAndVMT	WorkerTripNumber	457.00	320.00
tblTripsAndVMT	WorkerTripNumber	91.00	64.00
tblWater	IndoorWaterUseRate	14,594,501.74	7,818,483.07
tblWater	IndoorWaterUseRate	2,379,209.39	2,675,499.48
tblWater	OutdoorWaterUseRate	9,200,881.53	4,929,043.68
tblWater	OutdoorWaterUseRate	1,458,225.11	1,639,822.26

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					
2015	0.0375	0.3762	0.2947	3.2000e-004	0.0125	0.0212	0.0337	2.1900e-003	0.0198	0.0219	0.0000	29.6256	29.6256	6.9700e-003	0.0000	29.7721
2016	4.9084	4.8024	4.7218	6.9600e-003	0.3929	0.2410	0.6339	0.1511	0.2247	0.3758	0.0000	604.4426	604.4426	0.0926	0.0000	606.3881
2017	0.3531	2.1545	3.0017	5.2000e-003	0.2184	0.0982	0.3165	0.0589	0.0931	0.1520	0.0000	422.8441	422.8441	0.0419	0.0000	423.7231
Total	5.2990	7.3331	8.0182	0.0125	0.6237	0.3604	0.9841	0.2122	0.3375	0.5497	0.0000	1,056.9123	1,056.9123	0.1415	0.0000	1,059.8833

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					
2015	8.3500e-003	0.1495	0.1912	3.2000e-004	7.1500e-003	7.5500e-003	0.0147	1.3900e-003	7.5400e-003	8.9300e-003	0.0000	29.6256	29.6256	6.9700e-003	0.0000	29.7721
2016	4.5617	2.4580	4.2053	6.9600e-003	0.2864	0.1014	0.3878	0.0976	0.1005	0.1980	0.0000	604.4422	604.4422	0.0926	0.0000	606.3877
2017	0.1982	1.4556	2.9856	5.2000e-003	0.2184	0.0557	0.2740	0.0589	0.0549	0.1138	0.0000	422.8439	422.8439	0.0419	0.0000	423.7229
Total	4.7683	4.0631	7.3821	0.0125	0.5119	0.1646	0.6765	0.1578	0.1629	0.3207	0.0000	1,056.9117	1,056.9117	0.1415	0.0000	1,059.8827

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2015	2/29/2016	5	65	
2	Site Preparation	Site Preparation	3/1/2016	4/30/2016	5	44	
3	Grading	Grading	5/1/2016	7/31/2016	5	65	
4	Building Construction	Building Construction	8/1/2016	7/31/2017	5	261	
5	Paving	Paving	8/1/2016	9/30/2016	5	10	
6	Architectural Coating	Architectural Coating	8/1/2016	10/31/2016	5	66	

Acres of Grading (Site Preparation Phase): 3.18

Acres of Grading (Grading Phase): 2.42

Acres of Paving: 0

Residential Indoor: 350,325; Residential Outdoor: 116,775; Non-Residential Indoor: 696,960; Non-Residential Outdoor: 232,320 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	8.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Scrapers	1	8.00	356	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Dozers	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Building Construction	Cranes	1	8.00	208	0.29
Building Construction	Forklifts	2	7.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Building Construction	Welders	3	8.00	46	0.30
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	89	0.42
Paving	Paving Equipment	1	8.00	82	0.36
Paving	Rollers	2	8.00	84	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	5	13.00	0.00	242.00	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	4	10.00	0.00	1,747.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	320.00	95.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	64.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.6400e-003	0.0000	9.6400e-003	1.4600e-003	0.0000	1.4600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0357	0.3624	0.2713	2.7000e-004		0.0210	0.0210		0.0196	0.0196	0.0000	25.7542	25.7542	6.9000e-003	0.0000	25.8990
Total	0.0357	0.3624	0.2713	2.7000e-004	9.6400e-003	0.0210	0.0306	1.4600e-003	0.0196	0.0210	0.0000	25.7542	25.7542	6.9000e-003	0.0000	25.8990

3.2 Demolition - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3100e-003	0.0131	0.0164	3.0000e-005	1.7100e-003	2.0000e-004	1.9100e-003	4.4000e-004	1.9000e-004	6.3000e-004	0.0000	2.8543	2.8543	2.0000e-005	0.0000	2.8547
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	6.7000e-004	7.0300e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0172	1.0172	6.0000e-005	0.0000	1.0184
Total	1.8700e-003	0.0138	0.0235	4.0000e-005	2.8100e-003	2.1000e-004	3.0200e-003	7.3000e-004	2.0000e-004	9.3000e-004	0.0000	3.8714	3.8714	8.0000e-005	0.0000	3.8731

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					4.3400e-003	0.0000	4.3400e-003	6.6000e-004	0.0000	6.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4800e-003	0.1357	0.1678	2.7000e-004		7.3400e-003	7.3400e-003		7.3400e-003	7.3400e-003	0.0000	25.7542	25.7542	6.9000e-003	0.0000	25.8989
Total	6.4800e-003	0.1357	0.1678	2.7000e-004	4.3400e-003	7.3400e-003	0.0117	6.6000e-004	7.3400e-003	8.0000e-003	0.0000	25.7542	25.7542	6.9000e-003	0.0000	25.8989

3.2 Demolition - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3100e-003	0.0131	0.0164	3.0000e-005	1.7100e-003	2.0000e-004	1.9100e-003	4.4000e-004	1.9000e-004	6.3000e-004	0.0000	2.8543	2.8543	2.0000e-005	0.0000	2.8547
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	6.7000e-004	7.0300e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0172	1.0172	6.0000e-005	0.0000	1.0184
Total	1.8700e-003	0.0138	0.0235	4.0000e-005	2.8100e-003	2.1000e-004	3.0200e-003	7.3000e-004	2.0000e-004	9.3000e-004	0.0000	3.8714	3.8714	8.0000e-005	0.0000	3.8731

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					0.0176	0.0000	0.0176	2.6700e-003	0.0000	2.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0622	0.6327	0.4799	5.0000e-004		0.0361	0.0361		0.0336	0.0336	0.0000	46.5802	46.5802	0.0125	0.0000	46.8426
Total	0.0622	0.6327	0.4799	5.0000e-004	0.0176	0.0361	0.0537	2.6700e-003	0.0336	0.0363	0.0000	46.5802	46.5802	0.0125	0.0000	46.8426

3.2 Demolition - 2016**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0100e-003	0.0205	0.0271	6.0000e-005	1.8600e-003	3.0000e-004	2.1600e-003	4.9000e-004	2.7000e-004	7.7000e-004	0.0000	5.1391	5.1391	4.0000e-005	0.0000	5.1398
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	9.2000e-004	1.0900e-003	0.0115	2.0000e-005	2.0100e-003	2.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.5000e-004	0.0000	1.7894	1.7894	1.0000e-004	0.0000	1.7914
Total	2.9300e-003	0.0216	0.0386	8.0000e-005	3.8700e-003	3.2000e-004	4.1800e-003	1.0200e-003	2.8000e-004	1.3200e-003	0.0000	6.9285	6.9285	1.4000e-004	0.0000	6.9312

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					7.9200e-003	0.0000	7.9200e-003	1.2000e-003	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.2478	0.3064	5.0000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	46.5801	46.5801	0.0125	0.0000	46.8426
Total	0.0118	0.2478	0.3064	5.0000e-004	7.9200e-003	0.0134	0.0213	1.2000e-003	0.0134	0.0146	0.0000	46.5801	46.5801	0.0125	0.0000	46.8426

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0100e-003	0.0205	0.0271	6.0000e-005	1.8600e-003	3.0000e-004	2.1600e-003	4.9000e-004	2.7000e-004	7.7000e-004	0.0000	5.1391	5.1391	4.0000e-005	0.0000	5.1398
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	9.2000e-004	1.0900e-003	0.0115	2.0000e-005	2.0100e-003	2.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.5000e-004	0.0000	1.7894	1.7894	1.0000e-004	0.0000	1.7914
Total	2.9300e-003	0.0216	0.0386	8.0000e-005	3.8700e-003	3.2000e-004	4.1800e-003	1.0200e-003	2.8000e-004	1.3200e-003	0.0000	6.9285	6.9285	1.4000e-004	0.0000	6.9312

3.3 Site Preparation - 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					1.6900e-003	0.0000	1.6900e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0559	0.6428	0.3760	5.0000e-004		0.0311	0.0311		0.0286	0.0286	0.0000	46.8944	46.8944	0.0142	0.0000	47.1914
Total	0.0559	0.6428	0.3760	5.0000e-004	1.6900e-003	0.0311	0.0328	1.8000e-004	0.0286	0.0288	0.0000	46.8944	46.8944	0.0142	0.0000	47.1914

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	7.0000e-004	7.3800e-003	2.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1536	1.1536	6.0000e-005	0.0000	1.1549
Total	5.9000e-004	7.0000e-004	7.3800e-003	2.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1536	1.1536	6.0000e-005	0.0000	1.1549

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					7.6000e-004	0.0000	7.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.2394	0.3026	5.0000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	46.8943	46.8943	0.0141	0.0000	47.1914
Total	0.0122	0.2394	0.3026	5.0000e-004	7.6000e-004	0.0105	0.0113	8.0000e-005	0.0105	0.0106	0.0000	46.8943	46.8943	0.0141	0.0000	47.1914

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	7.0000e-004	7.3800e-003	2.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1536	1.1536	6.0000e-005	0.0000	1.1549
Total	5.9000e-004	7.0000e-004	7.3800e-003	2.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1536	1.1536	6.0000e-005	0.0000	1.1549

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					0.1743	0.0000	0.1743	0.0946	0.0000	0.0946	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1052	1.1326	0.7542	8.1000e-004		0.0588	0.0588		0.0541	0.0541	0.0000	76.4846	76.4846	0.0231	0.0000	76.9691
Total	0.1052	1.1326	0.7542	8.1000e-004	0.1743	0.0588	0.2331	0.0946	0.0541	0.1487	0.0000	76.4846	76.4846	0.0231	0.0000	76.9691

3.4 Grading - 2016**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	0.0225	0.2289	0.3030	6.3000e-004	0.0147	3.3400e-003	0.0180	4.0300e-003	3.0700e-003	7.1000e-003	0.0000	57.4152	57.4152	4.0000e-004	0.0000	57.4237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	1.3000e-003	0.0136	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.1302	2.1302	1.1000e-004	0.0000	2.1326
Total	0.0236	0.2302	0.3166	6.6000e-004	0.0171	3.3600e-003	0.0204	4.6600e-003	3.0900e-003	7.7500e-003	0.0000	59.5454	59.5454	5.1000e-004	0.0000	59.5563

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0785	0.0000	0.0785	0.0426	0.0000	0.0426	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0197	0.3875	0.5297	8.1000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	76.4845	76.4845	0.0231	0.0000	76.9690
Total	0.0197	0.3875	0.5297	8.1000e-004	0.0785	0.0178	0.0963	0.0426	0.0178	0.0604	0.0000	76.4845	76.4845	0.0231	0.0000	76.9690

3.4 Grading - 2016**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	0.0225	0.2289	0.3030	6.3000e-004	0.0147	3.3400e-003	0.0180	4.0300e-003	3.0700e-003	7.1000e-003	0.0000	57.4152	57.4152	4.0000e-004	0.0000	57.4237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	1.3000e-003	0.0136	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.1302	2.1302	1.1000e-004	0.0000	2.1326
Total	0.0236	0.2302	0.3166	6.6000e-004	0.0171	3.3600e-003	0.0204	4.6600e-003	3.0900e-003	7.7500e-003	0.0000	59.5454	59.5454	5.1000e-004	0.0000	59.5563

3.5 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	0.1597	1.2006	0.7617	1.1600e-003		0.0715	0.0715		0.0680	0.0680	0.0000	101.2252	101.2252	0.0249	0.0000	101.7481
Total	0.1597	1.2006	0.7617	1.1600e-003		0.0715	0.0715		0.0680	0.0680	0.0000	101.2252	101.2252	0.0249	0.0000	101.7481

3.5 Building Construction - 2016

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	0.0698	0.4424	0.8609	1.0900e-003	0.0298	6.9200e-003	0.0367	8.5200e-003	6.3600e-003	0.0149	0.0000	98.6020	98.6020	7.9000e-004	0.0000	98.6186
Worker	0.0590	0.0704	0.7381	1.5500e-003	0.1293	9.8000e-004	0.1302	0.0344	9.0000e-004	0.0353	0.0000	115.3602	115.3602	6.1700e-003	0.0000	115.4897
Total	0.1288	0.5128	1.5990	2.6400e-003	0.1591	7.9000e-003	0.1670	0.0429	7.2600e-003	0.0502	0.0000	213.9622	213.9622	6.9600e-003	0.0000	214.1082

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	0.0321	0.6060	0.7294	1.1600e-003		0.0338	0.0338		0.0338	0.0338	0.0000	101.2250	101.2250	0.0249	0.0000	101.7480
Total	0.0321	0.6060	0.7294	1.1600e-003		0.0338	0.0338		0.0338	0.0338	0.0000	101.2250	101.2250	0.0249	0.0000	101.7480

3.5 Building Construction - 2016

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	0.0698	0.4424	0.8609	1.0900e-003	0.0298	6.9200e-003	0.0367	8.5200e-003	6.3600e-003	0.0149	0.0000	98.6020	98.6020	7.9000e-004	0.0000	98.6186
Worker	0.0590	0.0704	0.7381	1.5500e-003	0.1293	9.8000e-004	0.1302	0.0344	9.0000e-004	0.0353	0.0000	115.3602	115.3602	6.1700e-003	0.0000	115.4897
Total	0.1288	0.5128	1.5990	2.6400e-003	0.1591	7.9000e-003	0.1670	0.0429	7.2600e-003	0.0502	0.0000	213.9622	213.9622	6.9600e-003	0.0000	214.1082

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	tons/yr										MT/yr					
Off-Road	0.1989	1.5308	1.0174	1.5900e-003		0.0889	0.0889		0.0845	0.0845	0.0000	137.6768	137.6768	0.0331	0.0000	138.3724
Total	0.1989	1.5308	1.0174	1.5900e-003		0.0889	0.0889		0.0845	0.0845	0.0000	137.6768	137.6768	0.0331	0.0000	138.3724

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	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	0.0824	0.5375	1.0807	1.4900e-003	0.0409	8.0100e-003	0.0489	0.0117	7.3500e-003	0.0191	0.0000	133.0739	133.0739	1.0100e-003	0.0000	133.0952
Worker	0.0719	0.0863	0.9037	2.1200e-003	0.1774	1.3000e-003	0.1788	0.0472	1.2000e-003	0.0484	0.0000	152.0934	152.0934	7.7200e-003	0.0000	152.2556
Total	0.1542	0.6238	1.9843	3.6100e-003	0.2184	9.3100e-003	0.2277	0.0589	8.5500e-003	0.0675	0.0000	285.1673	285.1673	8.7300e-003	0.0000	285.3507

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	0.0440	0.8319	1.0013	1.5900e-003		0.0463	0.0463		0.0463	0.0463	0.0000	137.6766	137.6766	0.0331	0.0000	138.3722
Total	0.0440	0.8319	1.0013	1.5900e-003		0.0463	0.0463		0.0463	0.0463	0.0000	137.6766	137.6766	0.0331	0.0000	138.3722

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	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	0.0824	0.5375	1.0807	1.4900e-003	0.0409	8.0100e-003	0.0489	0.0117	7.3500e-003	0.0191	0.0000	133.0739	133.0739	1.0100e-003	0.0000	133.0952
Worker	0.0719	0.0863	0.9037	2.1200e-003	0.1774	1.3000e-003	0.1788	0.0472	1.2000e-003	0.0484	0.0000	152.0934	152.0934	7.7200e-003	0.0000	152.2556
Total	0.1542	0.6238	1.9843	3.6100e-003	0.2184	9.3100e-003	0.2277	0.0589	8.5500e-003	0.0675	0.0000	285.1673	285.1673	8.7300e-003	0.0000	285.3507

3.6 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	0.0401	0.3665	0.2444	3.2000e-004		0.0274	0.0274		0.0253	0.0253	0.0000	29.9960	29.9960	8.8400e-003	0.0000	30.1817
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0401	0.3665	0.2444	3.2000e-004		0.0274	0.0274		0.0253	0.0253	0.0000	29.9960	29.9960	8.8400e-003	0.0000	30.1817

3.6 Paving - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	1.3500e-003	0.0142	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.2122	2.2122	1.2000e-004	0.0000	2.2147
Total	1.1300e-003	1.3500e-003	0.0142	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.2122	2.2122	1.2000e-004	0.0000	2.2147

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	7.5500e-003	0.1723	0.2327	3.2000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	29.9960	29.9960	8.8400e-003	0.0000	30.1817
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.5500e-003	0.1723	0.2327	3.2000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	29.9960	29.9960	8.8400e-003	0.0000	30.1817

3.6 Paving - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	1.3500e-003	0.0142	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.2122	2.2122	1.2000e-004	0.0000	2.2147
Total	1.1300e-003	1.3500e-003	0.0142	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.2122	2.2122	1.2000e-004	0.0000	2.2147

3.7 Architectural Coating - 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					
Archit. Coating	4.3129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1100e-003	0.0522	0.0415	7.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	5.6172	5.6172	6.6000e-004	0.0000	5.6311
Total	4.3210	0.0522	0.0415	7.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	5.6172	5.6172	6.6000e-004	0.0000	5.6311

3.7 Architectural Coating - 2016

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	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	0.0000
Worker	7.0800e-003	8.4500e-003	0.0886	1.9000e-004	0.0155	1.2000e-004	0.0156	4.1300e-003	1.1000e-004	4.2300e-003	0.0000	13.8432	13.8432	7.4000e-004	0.0000	13.8588	
Total	7.0800e-003	8.4500e-003	0.0886	1.9000e-004	0.0155	1.2000e-004	0.0156	4.1300e-003	1.1000e-004	4.2300e-003	0.0000	13.8432	13.8432	7.4000e-004	0.0000	13.8588	

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					
Archit. Coating	4.3129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0299	0.0403	7.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	5.6172	5.6172	6.6000e-004	0.0000	5.6311
Total	4.3142	0.0299	0.0403	7.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	5.6172	5.6172	6.6000e-004	0.0000	5.6311

3.7 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0800e-003	8.4500e-003	0.0886	1.9000e-004	0.0155	1.2000e-004	0.0156	4.1300e-003	1.1000e-004	4.2300e-003	0.0000	13.8432	13.8432	7.4000e-004	0.0000	13.8588
Total	7.0800e-003	8.4500e-003	0.0886	1.9000e-004	0.0155	1.2000e-004	0.0156	4.1300e-003	1.1000e-004	4.2300e-003	0.0000	13.8432	13.8432	7.4000e-004	0.0000	13.8588

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6423	5.4555	26.0952	0.0521	3.6214	0.0714	3.6928	0.9702	0.0657	1.0359	0.0000	3,968.9592	3,968.9592	0.1705	0.0000	3,972.5394
Unmitigated	2.6423	5.4555	26.0952	0.0521	3.6214	0.0714	3.6928	0.9702	0.0657	1.0359	0.0000	3,968.9592	3,968.9592	0.1705	0.0000	3,972.5394

Phase 2 Construction Emissions

CalEEMod Outputs (Winter, Summer, Annual)

Sac Commons - Phase 2 Construction
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	240.00	Dwelling Unit	1.86	212,750.00	480
Strip Mall	4.50	1000sqft	0.04	4,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User defined data.

Construction Phase - Schedule from PD.

Off-road Equipment - Adjusted updated Load Factor based on CalEEMod guidance.

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Updated CalEEMod HP and LF based on new guidance.

Off-road Equipment - An excavator was exchanged for one of the default tractor/loader/backhoes in order to handle the additional earthwork activity.

Off-road Equipment - Adjust to default CalEEMod HP and EF.

Off-road Equipment - Adjust to default CalEEMod HP

Trips and VMT - User defined values from earthworks activity and customized acreages.

On-road Fugitive Dust -

Demolition -

Grading - User defined values.

Construction Off-road Equipment Mitigation - Potential mitigation measure (all Tier 3)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	2,250.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	6,750.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	143,606.00	162,000.00
tblArchitecturalCoating	ConstArea_Residential_Interior	430,819.00	486,000.00
tblAreaCoating	Area_Nonresidential_Interior	6750	0
tblAreaCoating	Area_Residential_Exterior	143606	162000
tblAreaCoating	Area_Residential_Interior	430819	486000
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	65.00

tblConstructionPhase	NumDays	200.00	239.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	2.00	43.00
tblConstructionPhase	PhaseEndDate	12/29/2017	9/30/2018
tblConstructionPhase	PhaseEndDate	6/29/2018	6/30/2018
tblConstructionPhase	PhaseEndDate	8/30/2018	9/30/2017
tblConstructionPhase	PhaseEndDate	4/28/2017	4/30/2017
tblConstructionPhase	PhaseStartDate	10/1/2017	7/1/2018
tblConstructionPhase	PhaseStartDate	7/1/2018	8/1/2017
tblGrading	AcresOfGrading	24.75	1.90
tblGrading	AcresOfGrading	64.50	1.90
tblGrading	MaterialExported	0.00	4,452.00
tblLandUse	LandUseSquareFeet	240,000.00	212,750.00
tblLandUse	LotAcreage	6.32	1.86
tblLandUse	LotAcreage	0.10	0.04
tblLandUse	Population	641.00	480.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	125.00	89.00
tblOffRoadEquipment	HorsePower	130.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00

tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	361.00	356.00
tblOffRoadEquipment	LoadFactor	0.48	0.32
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	HaulingTripNumber	557.00	445.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	174.00	173.00

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	3.1016	31.0340	24.7139	0.0273	0.9492	1.7334	2.6826	0.1692	1.6134	1.7826	0.0000	2,765.7797	2,765.7797	0.6627	0.0000	2,779.6957
2017	4.3084	31.9494	30.8261	0.0486	1.5677	1.7803	3.3479	0.4188	1.6751	2.0939	0.0000	4,422.0106	4,422.0106	0.7444	0.0000	4,437.6433
2018	46.5025	16.4274	21.1798	0.0373	1.4687	0.8427	2.3114	0.3926	0.8076	1.2002	0.0000	3,244.0603	3,244.0603	0.4088	0.0000	3,252.6446
Total	53.9125	79.4108	76.7199	0.1132	3.9856	4.3564	8.3419	0.9806	4.0961	5.0767	0.0000	10,431.8506	10,431.8506	1.8159	0.0000	10,469.9836

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	0.7025	12.7083	16.4529	0.0273	0.5558	0.6515	1.2073	0.1097	0.6504	0.7601	0.0000	2,765.7797	2,765.7797	0.6627	0.0000	2,779.6957
2017	1.6548	17.3782	30.1711	0.0486	1.5677	0.9543	2.5219	0.4188	0.9511	1.3699	0.0000	4,422.0106	4,422.0106	0.7444	0.0000	4,437.6433
2018	46.3430	11.5886	21.1823	0.0373	1.4687	0.5676	2.0363	0.3926	0.5647	0.9573	0.0000	3,244.0603	3,244.0603	0.4088	0.0000	3,252.6446
Total	48.7003	41.6751	67.8063	0.1132	3.5922	2.1733	5.7655	0.9210	2.1662	3.0873	0.0000	10,431.8506	10,431.8506	1.8159	0.0000	10,469.9836

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	9.67	47.52	11.62	0.00	9.87	50.11	30.89	6.07	47.11	39.19	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	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	12/1/2016	2/28/2017	5	64	
2	Site Preparation	Site Preparation	3/1/2017	4/30/2017	5	43	
3	Grading	Grading	5/1/2017	7/31/2017	5	66	
4	Building Construction	Building Construction	8/1/2017	6/30/2018	5	239	
5	Paving	Paving	8/1/2017	9/30/2017	5	44	
6	Architectural Coating	Architectural Coating	7/1/2018	9/30/2018	5	65	

Acres of Grading (Site Preparation Phase): 1.9

Acres of Grading (Grading Phase): 1.9

Acres of Paving: 0

Residential Indoor: 486,000; Residential Outdoor: 162,000; 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	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	8.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Scrapers	1	8.00	356	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	6.00	162	0.48
Grading	Rubber Tired Dozers	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	6.00	208	0.29
Building Construction	Forklifts	1	6.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Building Construction	Welders	3	8.00	46	0.30
Paving	Cement and Mortar Mixers	1	6.00	9	0.38
Paving	Pavers	1	6.00	89	0.42
Paving	Paving Equipment	1	8.00	82	0.36
Paving	Rollers	1	7.00	84	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	5	13.00	0.00	203.00	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	4	8.00	0.00	445.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	173.00	26.00	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	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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					0.7152	0.0000	0.7152	0.1083	0.0000	0.1083			0.0000			0.0000
Off-Road	2.9624	30.1262	22.8503	0.0239		1.7205	1.7205		1.6015	1.6015		2,445.0407	2,445.0407	0.6560		2,458.8170
Total	2.9624	30.1262	22.8503	0.0239	0.7152	1.7205	2.4358	0.1083	1.6015	1.7098		2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.0938	0.8496	1.2973	2.2900e-003	0.1350	0.0122	0.1472	0.0347	0.0112	0.0459		229.4933	229.4933	1.6300e-003		229.5275
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	0.0455	0.0582	0.5663	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		91.2457	91.2457	5.0200e-003		91.3512
Total	0.1392	0.9078	1.8636	3.4000e-003	0.2339	0.0129	0.2468	0.0609	0.0119	0.0728		320.7390	320.7390	6.6500e-003		320.8787

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					0.3219	0.0000	0.3219	0.0487	0.0000	0.0487			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170
Total	0.5633	11.8005	14.5893	0.0239	0.3219	0.6386	0.9604	0.0487	0.6386	0.6873	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.0938	0.8496	1.2973	2.2900e-003	0.1350	0.0122	0.1472	0.0347	0.0112	0.0459		229.4933	229.4933	1.6300e-003		229.5275
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	0.0455	0.0582	0.5663	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		91.2457	91.2457	5.0200e-003		91.3512
Total	0.1392	0.9078	1.8636	3.4000e-003	0.2339	0.0129	0.2468	0.0609	0.0119	0.0728		320.7390	320.7390	6.6500e-003		320.8787

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					
Fugitive Dust					0.7152	0.0000	0.7152	0.1083	0.0000	0.1083			0.0000			0.0000
Off-Road	2.7959	28.4422	22.0250	0.0239		1.5972	1.5972		1.4859	1.4859		2,413.6403	2,413.6403	0.6527		2,427.3458
Total	2.7959	28.4422	22.0250	0.0239	0.7152	1.5972	2.3124	0.1083	1.4859	1.5942		2,413.6403	2,413.6403	0.6527		2,427.3458

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	0.0817	0.7447	1.2118	2.2900e-003	0.0770	0.0104	0.0874	0.0204	9.5500e-003	0.0300		225.5864	225.5864	1.5300e-003		225.6185
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	0.0401	0.0519	0.5030	1.1100e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		87.6327	87.6327	4.5800e-003		87.7289
Total	0.1218	0.7967	1.7149	3.4000e-003	0.1759	0.0111	0.1869	0.0467	0.0102	0.0569		313.2191	313.2191	6.1100e-003		313.3474

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					0.3219	0.0000	0.3219	0.0487	0.0000	0.0487			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,413.6403	2,413.6403	0.6527		2,427.3458
Total	0.5633	11.8005	14.5893	0.0239	0.3219	0.6386	0.9604	0.0487	0.6386	0.6873	0.0000	2,413.6403	2,413.6403	0.6527		2,427.3458

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	0.0817	0.7447	1.2118	2.2900e-003	0.0770	0.0104	0.0874	0.0204	9.5500e-003	0.0300		225.5864	225.5864	1.5300e-003			225.6185
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	0.0401	0.0519	0.5030	1.1100e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		87.6327	87.6327	4.5800e-003			87.7289
Total	0.1218	0.7967	1.7149	3.4000e-003	0.1759	0.0111	0.1869	0.0467	0.0102	0.0569		313.2191	313.2191	6.1100e-003			313.3474

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					0.0469	0.0000	0.0469	5.0600e-003	0.0000	5.0600e-003			0.0000				0.0000
Off-Road	2.3823	27.1280	16.1810	0.0226		1.3049	1.3049		1.2005	1.2005		2,311.2035	2,311.2035	0.7082			2,326.0747
Total	2.3823	27.1280	16.1810	0.0226	0.0469	1.3049	1.3517	5.0600e-003	1.2005	1.2055		2,311.2035	2,311.2035	0.7082			2,326.0747

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	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003			53.9870
Total	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003			53.9870

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					0.0211	0.0000	0.0211	2.2800e-003	0.0000	2.2800e-003			0.0000				0.0000
Off-Road	0.5536	10.8832	13.7548	0.0226		0.4786	0.4786		0.4786	0.4786	0.0000	2,311.2035	2,311.2035	0.7082			2,326.0747
Total	0.5536	10.8832	13.7548	0.0226	0.0211	0.4786	0.4997	2.2800e-003	0.4786	0.4809	0.0000	2,311.2035	2,311.2035	0.7082			2,326.0747

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	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003			53.9870
Total	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003			53.9870

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					0.0445	0.0000	0.0445	5.4100e-003	0.0000	5.4100e-003			0.0000			0.0000	
Off-Road	2.8370	30.3344	21.3328	0.0235		1.5641	1.5641		1.4390	1.4390		2,409.7556	2,409.7556	0.7383			2,425.2609
Total	2.8370	30.3344	21.3328	0.0235	0.0445	1.5641	1.6086	5.4100e-003	1.4390	1.4444		2,409.7556	2,409.7556	0.7383			2,425.2609

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	0.1736	1.5831	2.5760	4.8600e-003	0.1169	0.0221	0.1390	0.0320	0.0203	0.0523		479.5268	479.5268	3.2500e-003		479.5951
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	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003		53.9870
Total	0.1983	1.6150	2.8856	5.5400e-003	0.1778	0.0225	0.2003	0.0481	0.0207	0.0688		533.4546	533.4546	6.0700e-003		533.5821

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					0.0200	0.0000	0.0200	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.5736	11.2955	15.2557	0.0235		0.5215	0.5215		0.5215	0.5215	0.0000	2,409.7556	2,409.7556	0.7383		2,425.2609
Total	0.5736	11.2955	15.2557	0.0235	0.0200	0.5215	0.5415	2.4300e-003	0.5215	0.5239	0.0000	2,409.7556	2,409.7556	0.7383		2,425.2609

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	0.1736	1.5831	2.5760	4.8600e-003	0.1169	0.0221	0.1390	0.0320	0.0203	0.0523		479.5268	479.5268	3.2500e-003		479.5951
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	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003		53.9870
Total	0.1983	1.6150	2.8856	5.5400e-003	0.1778	0.0225	0.2003	0.0481	0.0207	0.0688		533.4546	533.4546	6.0700e-003		533.5821

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	2.2182	15.6868	11.0265	0.0172		0.9438	0.9438		0.9050	0.9050		1,615.3698	1,615.3698	0.3627		1,622.9866
Total	2.2182	15.6868	11.0265	0.0172		0.9438	0.9438		0.9050	0.9050		1,615.3698	1,615.3698	0.3627		1,622.9866

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	0.3533	1.9813	4.9590	5.4100e-003	0.1528	0.0293	0.1820	0.0435	0.0269	0.0704		529.0333	529.0333	4.1100e-003			529.1196
Worker	0.5340	0.6910	6.6941	0.0148	1.3160	9.3400e-003	1.3254	0.3491	8.6200e-003	0.3577		1,166.1895	1,166.1895	0.0610			1,167.4695
Total	0.8873	2.6724	11.6531	0.0202	1.4688	0.0386	1.5074	0.3926	0.0355	0.4281		1,695.2228	1,695.2228	0.0651			1,696.5891

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	0.4877	9.1818	10.6257	0.0172		0.5315	0.5315		0.5315	0.5315	0.0000	1,615.3698	1,615.3698	0.3627			1,622.9866
Total	0.4877	9.1818	10.6257	0.0172		0.5315	0.5315		0.5315	0.5315	0.0000	1,615.3698	1,615.3698	0.3627			1,622.9866

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	0.3533	1.9813	4.9590	5.4100e-003	0.1528	0.0293	0.1820	0.0435	0.0269	0.0704		529.0333	529.0333	4.1100e-003			529.1196
Worker	0.5340	0.6910	6.6941	0.0148	1.3160	9.3400e-003	1.3254	0.3491	8.6200e-003	0.3577		1,166.1895	1,166.1895	0.0610			1,167.4695
Total	0.8873	2.6724	11.6531	0.0202	1.4688	0.0386	1.5074	0.3926	0.0355	0.4281		1,695.2228	1,695.2228	0.0651			1,696.5891

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	1.9331	14.0206	10.6232	0.0172		0.8066	0.8066		0.7744	0.7744		1,602.7297	1,602.7297	0.3487			1,610.0519
Total	1.9331	14.0206	10.6232	0.0172		0.8066	0.8066		0.7744	0.7744		1,602.7297	1,602.7297	0.3487			1,610.0519

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	0.2878	1.7848	4.5674	5.3800e-003	0.1527	0.0269	0.1796	0.0435	0.0247	0.0682		519.2505	519.2505	4.0100e-003			519.3347
Worker	0.4745	0.6220	5.9892	0.0148	1.3160	9.1600e-003	1.3252	0.3491	8.4700e-003	0.3576		1,122.0801	1,122.0801	0.0561			1,123.2579
Total	0.7623	2.4068	10.5566	0.0201	1.4687	0.0361	1.5048	0.3926	0.0332	0.4258		1,641.3306	1,641.3306	0.0601			1,642.5927

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	0.4877	9.1818	10.6257	0.0172		0.5315	0.5315		0.5315	0.5315	0.0000	1,602.7297	1,602.7297	0.3487			1,610.0519
Total	0.4877	9.1818	10.6257	0.0172		0.5315	0.5315		0.5315	0.5315	0.0000	1,602.7297	1,602.7297	0.3487			1,610.0519

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	0.2878	1.7848	4.5674	5.3800e-003	0.1527	0.0269	0.1796	0.0435	0.0247	0.0682		519.2505	519.2505	4.0100e-003			519.3347
Worker	0.4745	0.6220	5.9892	0.0148	1.3160	9.1600e-003	1.3252	0.3491	8.4700e-003	0.3576		1,122.0801	1,122.0801	0.0561			1,123.2579
Total	0.7623	2.4068	10.5566	0.0201	1.4687	0.0361	1.5048	0.3926	0.0332	0.4258		1,641.3306	1,641.3306	0.0601			1,642.5927

3.6 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	1.1628	10.7325	7.6435	0.0101		0.7972	0.7972		0.7340	0.7340		1,023.7853	1,023.7853	0.3085			1,030.2633
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.1628	10.7325	7.6435	0.0101		0.7972	0.7972		0.7340	0.7340		1,023.7853	1,023.7853	0.3085			1,030.2633

3.6 Paving - 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	0.0401	0.0519	0.5030	1.1100e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		87.6327	87.6327	4.5800e-003		87.7289
Total	0.0401	0.0519	0.5030	1.1100e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		87.6327	87.6327	4.5800e-003		87.7289

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	0.2397	5.4721	7.3894	0.0101		0.3835	0.3835		0.3835	0.3835	0.0000	1,023.7853	1,023.7853	0.3085		1,030.2633
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2397	5.4721	7.3894	0.0101		0.3835	0.3835		0.3835	0.3835	0.0000	1,023.7853	1,023.7853	0.3085		1,030.2633

3.6 Paving - 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	0.0401	0.0519	0.5030	1.1100e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		87.6327	87.6327	4.5800e-003			87.7289
Total	0.0401	0.0519	0.5030	1.1100e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		87.6327	87.6327	4.5800e-003			87.7289

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	46.2074					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1991	1.3372	1.2361	1.9800e-003		0.1004	0.1004		0.1004	0.1004		187.6324	187.6324	0.0178			188.0068
Total	46.4065	1.3372	1.2361	1.9800e-003		0.1004	0.1004		0.1004	0.1004		187.6324	187.6324	0.0178			188.0068

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	0.0960	0.1258	1.2117	2.9800e-003	0.2662	1.8500e-003	0.2681	0.0706	1.7100e-003	0.0723		227.0104	227.0104	0.0114			227.2487
Total	0.0960	0.1258	1.2117	2.9800e-003	0.2662	1.8500e-003	0.2681	0.0706	1.7100e-003	0.0723		227.0104	227.0104	0.0114			227.2487

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	46.2074					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0396	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6324	187.6324	0.0178			188.0068
Total	46.2470	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6324	187.6324	0.0178			188.0068

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	0.0960	0.1258	1.2117	2.9800e-003	0.2662	1.8500e-003	0.2681	0.0706	1.7100e-003	0.0723		227.0104	227.0104	0.0114			227.2487
Total	0.0960	0.1258	1.2117	2.9800e-003	0.2662	1.8500e-003	0.2681	0.0706	1.7100e-003	0.0723		227.0104	227.0104	0.0114			227.2487

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	6.1400	13.5938	66.5573	0.1336	9.8562	0.1773	10.0335	2.6329	0.1634	2.7963		10,868.8857	10,868.8857	0.4516			10,878.3701
Unmitigated	6.1400	13.5938	66.5573	0.1336	9.8562	0.1773	10.0335	2.6329	0.1634	2.7963		10,868.8857	10,868.8857	0.4516			10,878.3701

Sac Commons - Phase 2 Construction
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	240.00	Dwelling Unit	1.86	212,750.00	480
Strip Mall	4.50	1000sqft	0.04	4,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User defined data.

Construction Phase - Schedule from PD.

Off-road Equipment - Adjusted updated Load Factor based on CalEEMod guidance.

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Updated CalEEMod HP and LF based on new guidance.

Off-road Equipment - An excavator was exchanged for one of the default tractor/loader/backhoes in order to handle the additional earthwork activity.

Off-road Equipment - Adjust to default CalEEMod HP and EF.

Off-road Equipment - Adjust to default CalEEMod HP

Trips and VMT - User defined values from earthworks activity and customized acreages.

On-road Fugitive Dust -

Demolition -

Grading - User defined values.

Construction Off-road Equipment Mitigation - Potential mitigation measure (all Tier 3)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	2,250.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	6,750.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	143,606.00	162,000.00
tblArchitecturalCoating	ConstArea_Residential_Interior	430,819.00	486,000.00
tblAreaCoating	Area_Nonresidential_Interior	6750	0
tblAreaCoating	Area_Residential_Exterior	143606	162000
tblAreaCoating	Area_Residential_Interior	430819	486000
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	65.00

tblConstructionPhase	NumDays	200.00	239.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	2.00	43.00
tblConstructionPhase	PhaseEndDate	12/29/2017	9/30/2018
tblConstructionPhase	PhaseEndDate	6/29/2018	6/30/2018
tblConstructionPhase	PhaseEndDate	8/30/2018	9/30/2017
tblConstructionPhase	PhaseEndDate	4/28/2017	4/30/2017
tblConstructionPhase	PhaseStartDate	10/1/2017	7/1/2018
tblConstructionPhase	PhaseStartDate	7/1/2018	8/1/2017
tblGrading	AcresOfGrading	24.75	1.90
tblGrading	AcresOfGrading	64.50	1.90
tblGrading	MaterialExported	0.00	4,452.00
tblLandUse	LandUseSquareFeet	240,000.00	212,750.00
tblLandUse	LotAcreage	6.32	1.86
tblLandUse	LotAcreage	0.10	0.04
tblLandUse	Population	641.00	480.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	125.00	89.00
tblOffRoadEquipment	HorsePower	130.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00

tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	361.00	356.00
tblOffRoadEquipment	LoadFactor	0.48	0.32
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	HaulingTripNumber	557.00	445.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	174.00	173.00

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	3.0900	30.9532	24.4730	0.0274	0.9492	1.7334	2.6826	0.1692	1.6133	1.7826	0.0000	2,779.0198	2,779.0198	0.6626	0.0000	2,792.9353
2017	4.3165	31.8129	29.9864	0.0508	1.5677	1.7798	3.3475	0.4188	1.6747	2.0935	0.0000	4,601.1490	4,601.1490	0.7444	0.0000	4,616.7807
2018	46.5187	16.1900	20.2275	0.0394	1.4687	0.8423	2.3110	0.3926	0.8073	1.1998	0.0000	3,404.9209	3,404.9209	0.4086	0.0000	3,413.5024
Total	53.9252	78.9560	74.6868	0.1176	3.9856	4.3555	8.3411	0.9806	4.0953	5.0759	0.0000	10,785.0896	10,785.0896	1.8157	0.0000	10,823.2183

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	0.6909	12.6275	16.2119	0.0274	0.5558	0.6514	1.2072	0.1097	0.6504	0.7600	0.0000	2,779.0198	2,779.0198	0.6626	0.0000	2,792.9353
2017	1.6629	17.1027	29.3314	0.0508	1.5677	0.9539	2.5215	0.4188	0.9507	1.3695	0.0000	4,601.1490	4,601.1490	0.7444	0.0000	4,616.7807
2018	46.3592	11.3511	20.2299	0.0394	1.4687	0.5672	2.0359	0.3926	0.5644	0.9569	0.0000	3,404.9209	3,404.9209	0.4086	0.0000	3,413.5024
Total	48.7130	41.0813	65.7732	0.1176	3.5922	2.1725	5.7647	0.9210	2.1654	3.0865	0.0000	10,785.0896	10,785.0896	1.8157	0.0000	10,823.2183

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	9.67	47.97	11.93	0.00	9.87	50.12	30.89	6.07	47.12	39.19	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	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	12/1/2016	2/28/2017	5	64	
2	Site Preparation	Site Preparation	3/1/2017	4/30/2017	5	43	
3	Grading	Grading	5/1/2017	7/31/2017	5	66	
4	Building Construction	Building Construction	8/1/2017	6/30/2018	5	239	
5	Paving	Paving	8/1/2017	9/30/2017	5	44	
6	Architectural Coating	Architectural Coating	7/1/2018	9/30/2018	5	65	

Acres of Grading (Site Preparation Phase): 1.9

Acres of Grading (Grading Phase): 1.9

Acres of Paving: 0

Residential Indoor: 486,000; Residential Outdoor: 162,000; 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	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	8.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Scrapers	1	8.00	356	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	6.00	162	0.48
Grading	Rubber Tired Dozers	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	6.00	208	0.29
Building Construction	Forklifts	1	6.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Building Construction	Welders	3	8.00	46	0.30
Paving	Cement and Mortar Mixers	1	6.00	9	0.38
Paving	Pavers	1	6.00	89	0.42
Paving	Paving Equipment	1	8.00	82	0.36
Paving	Rollers	1	7.00	84	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	5	13.00	0.00	203.00	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	4	8.00	0.00	445.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	173.00	26.00	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	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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					0.7152	0.0000	0.7152	0.1083	0.0000	0.1083			0.0000			0.0000
Off-Road	2.9624	30.1262	22.8503	0.0239		1.7205	1.7205		1.6015	1.6015		2,445.0407	2,445.0407	0.6560		2,458.8170
Total	2.9624	30.1262	22.8503	0.0239	0.7152	1.7205	2.4358	0.1083	1.6015	1.7098		2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.0755	0.7801	0.9953	2.2900e-003	0.1350	0.0121	0.1472	0.0347	0.0111	0.0458		230.0532	230.0532	1.6100e-003		230.0869
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	0.0521	0.0469	0.6273	1.2600e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		103.9259	103.9259	5.0200e-003		104.0314
Total	0.1276	0.8270	1.6226	3.5500e-003	0.2339	0.0129	0.2468	0.0609	0.0118	0.0727		333.9791	333.9791	6.6300e-003		334.1183

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					0.3219	0.0000	0.3219	0.0487	0.0000	0.0487			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170
Total	0.5633	11.8005	14.5893	0.0239	0.3219	0.6386	0.9604	0.0487	0.6386	0.6873	0.0000	2,445.0407	2,445.0407	0.6560		2,458.8170

3.2 Demolition - 2016

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	0.0755	0.7801	0.9953	2.2900e-003	0.1350	0.0121	0.1472	0.0347	0.0111	0.0458		230.0532	230.0532	1.6100e-003		230.0869
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	0.0521	0.0469	0.6273	1.2600e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		103.9259	103.9259	5.0200e-003		104.0314
Total	0.1276	0.8270	1.6226	3.5500e-003	0.2339	0.0129	0.2468	0.0609	0.0118	0.0727		333.9791	333.9791	6.6300e-003		334.1183

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					
Fugitive Dust					0.7152	0.0000	0.7152	0.1083	0.0000	0.1083			0.0000			0.0000
Off-Road	2.7959	28.4422	22.0250	0.0239		1.5972	1.5972		1.4859	1.4859		2,413.6403	2,413.6403	0.6527		2,427.3458
Total	2.7959	28.4422	22.0250	0.0239	0.7152	1.5972	2.3124	0.1083	1.4859	1.5942		2,413.6403	2,413.6403	0.6527		2,427.3458

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	0.0666	0.6834	0.9081	2.2900e-003	0.0770	0.0104	0.0873	0.0204	9.5200e-003	0.0300		226.1376	226.1376	1.5100e-003		226.1693
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	0.0465	0.0419	0.5616	1.2600e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		99.8269	99.8269	4.5800e-003		99.9231
Total	0.1131	0.7253	1.4697	3.5500e-003	0.1759	0.0111	0.1869	0.0467	0.0102	0.0568		325.9645	325.9645	6.0900e-003		326.0923

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					0.3219	0.0000	0.3219	0.0487	0.0000	0.0487			0.0000			0.0000
Off-Road	0.5633	11.8005	14.5893	0.0239		0.6386	0.6386		0.6386	0.6386	0.0000	2,413.6403	2,413.6403	0.6527		2,427.3458
Total	0.5633	11.8005	14.5893	0.0239	0.3219	0.6386	0.9604	0.0487	0.6386	0.6873	0.0000	2,413.6403	2,413.6403	0.6527		2,427.3458

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	0.0666	0.6834	0.9081	2.2900e-003	0.0770	0.0104	0.0873	0.0204	9.5200e-003	0.0300		226.1376	226.1376	1.5100e-003		226.1693
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	0.0465	0.0419	0.5616	1.2600e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		99.8269	99.8269	4.5800e-003		99.9231
Total	0.1131	0.7253	1.4697	3.5500e-003	0.1759	0.0111	0.1869	0.0467	0.0102	0.0568		325.9645	325.9645	6.0900e-003		326.0923

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					0.0469	0.0000	0.0469	5.0600e-003	0.0000	5.0600e-003			0.0000			0.0000
Off-Road	2.3823	27.1280	16.1810	0.0226		1.3049	1.3049		1.2005	1.2005		2,311.2035	2,311.2035	0.7082		2,326.0747
Total	2.3823	27.1280	16.1810	0.0226	0.0469	1.3049	1.3517	5.0600e-003	1.2005	1.2055		2,311.2035	2,311.2035	0.7082		2,326.0747

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	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911
Total	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911

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					0.0211	0.0000	0.0211	2.2800e-003	0.0000	2.2800e-003			0.0000			0.0000
Off-Road	0.5536	10.8832	13.7548	0.0226		0.4786	0.4786		0.4786	0.4786	0.0000	2,311.2035	2,311.2035	0.7082		2,326.0747
Total	0.5536	10.8832	13.7548	0.0226	0.0211	0.4786	0.4997	2.2800e-003	0.4786	0.4809	0.0000	2,311.2035	2,311.2035	0.7082		2,326.0747

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	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911
Total	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911

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					0.0445	0.0000	0.0445	5.4100e-003	0.0000	5.4100e-003			0.0000			0.0000
Off-Road	2.8370	30.3344	21.3328	0.0235		1.5641	1.5641		1.4390	1.4390		2,409.7556	2,409.7556	0.7383		2,425.2609
Total	2.8370	30.3344	21.3328	0.0235	0.0445	1.5641	1.6086	5.4100e-003	1.4390	1.4444		2,409.7556	2,409.7556	0.7383		2,425.2609

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	0.1416	1.4527	1.9303	4.8600e-003	0.1169	0.0220	0.1389	0.0320	0.0202	0.0522		480.6986	480.6986	3.2000e-003		480.7658
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	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911
Total	0.1702	1.4785	2.2759	5.6400e-003	0.1778	0.0224	0.2002	0.0481	0.0206	0.0688		542.1305	542.1305	6.0200e-003		542.2569

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					0.0200	0.0000	0.0200	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.5736	11.2955	15.2557	0.0235		0.5215	0.5215		0.5215	0.5215	0.0000	2,409.7556	2,409.7556	0.7383		2,425.2609
Total	0.5736	11.2955	15.2557	0.0235	0.0200	0.5215	0.5415	2.4300e-003	0.5215	0.5239	0.0000	2,409.7556	2,409.7556	0.7383		2,425.2609

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	0.1416	1.4527	1.9303	4.8600e-003	0.1169	0.0220	0.1389	0.0320	0.0202	0.0522		480.6986	480.6986	3.2000e-003		480.7658
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	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911
Total	0.1702	1.4785	2.2759	5.6400e-003	0.1778	0.0224	0.2002	0.0481	0.0206	0.0688		542.1305	542.1305	6.0200e-003		542.2569

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	2.2182	15.6868	11.0265	0.0172		0.9438	0.9438		0.9050	0.9050		1,615.3698	1,615.3698	0.3627		1,622.9866
Total	2.2182	15.6868	11.0265	0.0172		0.9438	0.9438		0.9050	0.9050		1,615.3698	1,615.3698	0.3627		1,622.9866

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	0.2709	1.8494	3.2810	5.4300e-003	0.1528	0.0289	0.1816	0.0435	0.0265	0.0700		533.7016	533.7016	3.9800e-003			533.7852
Worker	0.6182	0.5575	7.4738	0.0168	1.3160	9.3400e-003	1.3254	0.3491	8.6200e-003	0.3577		1,328.4655	1,328.4655	0.0610			1,329.7454
Total	0.8891	2.4069	10.7548	0.0223	1.4688	0.0382	1.5070	0.3926	0.0351	0.4277		1,862.1671	1,862.1671	0.0649			1,863.5306

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	0.4877	9.1818	10.6257	0.0172		0.5315	0.5315		0.5315	0.5315	0.0000	1,615.3698	1,615.3698	0.3627			1,622.9866
Total	0.4877	9.1818	10.6257	0.0172		0.5315	0.5315		0.5315	0.5315	0.0000	1,615.3698	1,615.3698	0.3627			1,622.9866

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	0.2709	1.8494	3.2810	5.4300e-003	0.1528	0.0289	0.1816	0.0435	0.0265	0.0700		533.7016	533.7016	3.9800e-003			533.7852
Worker	0.6182	0.5575	7.4738	0.0168	1.3160	9.3400e-003	1.3254	0.3491	8.6200e-003	0.3577		1,328.4655	1,328.4655	0.0610			1,329.7454
Total	0.8891	2.4069	10.7548	0.0223	1.4688	0.0382	1.5070	0.3926	0.0351	0.4277		1,862.1671	1,862.1671	0.0649			1,863.5306

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	1.9331	14.0206	10.6232	0.0172		0.8066	0.8066		0.7744	0.7744		1,602.7297	1,602.7297	0.3487			1,610.0519
Total	1.9331	14.0206	10.6232	0.0172		0.8066	0.8066		0.7744	0.7744		1,602.7297	1,602.7297	0.3487			1,610.0519

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	0.2251	1.6671	2.8631	5.4000e-003	0.1527	0.0265	0.1792	0.0435	0.0244	0.0679		523.8511	523.8511	3.8800e-003			523.9326
Worker	0.5546	0.5023	6.7411	0.0168	1.3160	9.1600e-003	1.3252	0.3491	8.4700e-003	0.3576		1,278.3400	1,278.3400	0.0561			1,279.5178
Total	0.7797	2.1694	9.6042	0.0222	1.4687	0.0357	1.5044	0.3926	0.0328	0.4254		1,802.1911	1,802.1911	0.0600			1,803.4504

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	0.4877	9.1818	10.6257	0.0172		0.5315	0.5315		0.5315	0.5315	0.0000	1,602.7297	1,602.7297	0.3487			1,610.0519
Total	0.4877	9.1818	10.6257	0.0172		0.5315	0.5315		0.5315	0.5315	0.0000	1,602.7297	1,602.7297	0.3487			1,610.0519

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	0.2251	1.6671	2.8631	5.4000e-003	0.1527	0.0265	0.1792	0.0435	0.0244	0.0679		523.8511	523.8511	3.8800e-003		523.9326
Worker	0.5546	0.5023	6.7411	0.0168	1.3160	9.1600e-003	1.3252	0.3491	8.4700e-003	0.3576		1,278.3400	1,278.3400	0.0561		1,279.5178
Total	0.7797	2.1694	9.6042	0.0222	1.4687	0.0357	1.5044	0.3926	0.0328	0.4254		1,802.1911	1,802.1911	0.0600		1,803.4504

3.6 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	1.1628	10.7325	7.6435	0.0101		0.7972	0.7972		0.7340	0.7340		1,023.7853	1,023.7853	0.3085		1,030.2633
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1628	10.7325	7.6435	0.0101		0.7972	0.7972		0.7340	0.7340		1,023.7853	1,023.7853	0.3085		1,030.2633

3.6 Paving - 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	0.0465	0.0419	0.5616	1.2600e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		99.8269	99.8269	4.5800e-003		99.9231
Total	0.0465	0.0419	0.5616	1.2600e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		99.8269	99.8269	4.5800e-003		99.9231

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	0.2397	5.4721	7.3894	0.0101		0.3835	0.3835		0.3835	0.3835	0.0000	1,023.7853	1,023.7853	0.3085		1,030.2633
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2397	5.4721	7.3894	0.0101		0.3835	0.3835		0.3835	0.3835	0.0000	1,023.7853	1,023.7853	0.3085		1,030.2633

3.6 Paving - 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	0.0465	0.0419	0.5616	1.2600e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		99.8269	99.8269	4.5800e-003		99.9231
Total	0.0465	0.0419	0.5616	1.2600e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		99.8269	99.8269	4.5800e-003		99.9231

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	46.2074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1991	1.3372	1.2361	1.9800e-003		0.1004	0.1004		0.1004	0.1004		187.6324	187.6324	0.0178		188.0068
Total	46.4065	1.3372	1.2361	1.9800e-003		0.1004	0.1004		0.1004	0.1004		187.6324	187.6324	0.0178		188.0068

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	0.1122	0.1016	1.3638	3.4000e-003	0.2662	1.8500e-003	0.2681	0.0706	1.7100e-003	0.0723		258.6237	258.6237	0.0114			258.8620
Total	0.1122	0.1016	1.3638	3.4000e-003	0.2662	1.8500e-003	0.2681	0.0706	1.7100e-003	0.0723		258.6237	258.6237	0.0114			258.8620

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	46.2074					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0396	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6324	187.6324	0.0178			188.0068
Total	46.2470	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6324	187.6324	0.0178			188.0068

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	0.1122	0.1016	1.3638	3.4000e-003	0.2662	1.8500e-003	0.2681	0.0706	1.7100e-003	0.0723		258.6237	258.6237	0.0114			258.8620
Total	0.1122	0.1016	1.3638	3.4000e-003	0.2662	1.8500e-003	0.2681	0.0706	1.7100e-003	0.0723		258.6237	258.6237	0.0114			258.8620

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	6.6289	11.9384	63.6964	0.1481	9.8562	0.1761	10.0324	2.6329	0.1623	2.7952		11,999.5759	11,999.5759	0.4513			12,009.0526
Unmitigated	6.6289	11.9384	63.6964	0.1481	9.8562	0.1761	10.0324	2.6329	0.1623	2.7952		11,999.5759	11,999.5759	0.4513			12,009.0526

Sac Commons - Phase 2 Construction
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	240.00	Dwelling Unit	1.86	212,750.00	480
Strip Mall	4.50	1000sqft	0.04	4,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User defined data.

Construction Phase - Schedule from PD.

Off-road Equipment - Adjusted updated Load Factor based on CalEEMod guidance.

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Updated CalEEMod HP and LF based on new guidance.

Off-road Equipment - An excavator was exchanged for one of the default tractor/loader/backhoes in order to handle the additional earthwork activity.

Off-road Equipment - Adjust to default CalEEMod HP and EF.

Off-road Equipment - Adjust to default CalEEMod HP

Trips and VMT - User defined values from earthworks activity and customized acreages.

On-road Fugitive Dust -

Demolition -

Grading - User defined values.

Construction Off-road Equipment Mitigation - Potential mitigation measure (all Tier 3)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	2,250.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	6,750.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	143,606.00	162,000.00
tblArchitecturalCoating	ConstArea_Residential_Interior	430,819.00	486,000.00
tblAreaCoating	Area_Nonresidential_Interior	6750	0
tblAreaCoating	Area_Residential_Exterior	143606	162000
tblAreaCoating	Area_Residential_Interior	430819	486000
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	65.00

tblConstructionPhase	NumDays	200.00	239.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	2.00	43.00
tblConstructionPhase	PhaseEndDate	12/29/2017	9/30/2018
tblConstructionPhase	PhaseEndDate	6/29/2018	6/30/2018
tblConstructionPhase	PhaseEndDate	8/30/2018	9/30/2017
tblConstructionPhase	PhaseEndDate	4/28/2017	4/30/2017
tblConstructionPhase	PhaseStartDate	10/1/2017	7/1/2018
tblConstructionPhase	PhaseStartDate	7/1/2018	8/1/2017
tblGrading	AcresOfGrading	24.75	1.90
tblGrading	AcresOfGrading	64.50	1.90
tblGrading	MaterialExported	0.00	4,452.00
tblLandUse	LandUseSquareFeet	240,000.00	212,750.00
tblLandUse	LotAcreage	6.32	1.86
tblLandUse	LotAcreage	0.10	0.04
tblLandUse	Population	641.00	480.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	125.00	89.00
tblOffRoadEquipment	HorsePower	130.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00

tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	361.00	356.00
tblOffRoadEquipment	LoadFactor	0.48	0.32
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	HaulingTripNumber	557.00	445.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	174.00	173.00

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	0.0340	0.3411	0.2695	3.0000e-004	0.0104	0.0191	0.0294	1.8400e-003	0.0178	0.0196	0.0000	27.6298	27.6298	6.6100e-003	0.0000	27.7687
2017	0.4038	3.4824	2.9797	4.3400e-003	0.1074	0.1853	0.2927	0.0267	0.1728	0.1995	0.0000	374.0895	374.0895	0.0761	0.0000	375.6875
2018	1.6828	1.1087	1.3765	2.6200e-003	0.1006	0.0581	0.1587	0.0269	0.0558	0.0827	0.0000	205.8205	205.8205	0.0250	0.0000	206.3447
Total	2.1206	4.9322	4.6256	7.2600e-003	0.2184	0.2624	0.4808	0.0555	0.2464	0.3018	0.0000	607.5398	607.5398	0.1077	0.0000	609.8008

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	7.5700e-003	0.1395	0.1786	3.0000e-004	6.0200e-003	7.1700e-003	0.0132	1.1800e-003	7.1500e-003	8.3400e-003	0.0000	27.6298	27.6298	6.6100e-003	0.0000	27.7686
2017	0.1283	1.6851	2.5434	4.3400e-003	0.0978	0.0814	0.1792	0.0253	0.0812	0.1064	0.0000	374.0891	374.0891	0.0761	0.0000	375.6871
2018	1.5836	0.7801	1.3762	2.6200e-003	0.1006	0.0390	0.1396	0.0269	0.0388	0.0658	0.0000	205.8204	205.8204	0.0250	0.0000	206.3446
Total	1.7195	2.6048	4.0982	7.2600e-003	0.2044	0.1276	0.3320	0.0534	0.1271	0.1805	0.0000	607.5393	607.5393	0.1077	0.0000	609.8004

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2016	2/28/2017	5	64	
2	Site Preparation	Site Preparation	3/1/2017	4/30/2017	5	43	
3	Grading	Grading	5/1/2017	7/31/2017	5	66	
4	Building Construction	Building Construction	8/1/2017	6/30/2018	5	239	
5	Paving	Paving	8/1/2017	9/30/2017	5	44	
6	Architectural Coating	Architectural Coating	7/1/2018	9/30/2018	5	65	

Acres of Grading (Site Preparation Phase): 1.9

Acres of Grading (Grading Phase): 1.9

Acres of Paving: 0

Residential Indoor: 486,000; Residential Outdoor: 162,000; 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	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	8.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Scrapers	1	8.00	356	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	6.00	162	0.48
Grading	Rubber Tired Dozers	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	6.00	208	0.29
Building Construction	Forklifts	1	6.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Building Construction	Welders	3	8.00	46	0.30
Paving	Cement and Mortar Mixers	1	6.00	9	0.38
Paving	Pavers	1	6.00	89	0.42
Paving	Paving Equipment	1	8.00	82	0.36
Paving	Rollers	1	7.00	84	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	5	13.00	0.00	203.00	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	4	8.00	0.00	445.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	173.00	26.00	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	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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					7.8700e-003	0.0000	7.8700e-003	1.1900e-003	0.0000	1.1900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0326	0.3314	0.2514	2.6000e-004		0.0189	0.0189		0.0176	0.0176	0.0000	24.3991	24.3991	6.5500e-003	0.0000	24.5366
Total	0.0326	0.3314	0.2514	2.6000e-004	7.8700e-003	0.0189	0.0268	1.1900e-003	0.0176	0.0188	0.0000	24.3991	24.3991	6.5500e-003	0.0000	24.5366

3.2 Demolition - 2016

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	9.0000e-004	9.1400e-003	0.0121	3.0000e-005	1.4300e-003	1.3000e-004	1.5700e-003	3.7000e-004	1.2000e-004	4.9000e-004	0.0000	2.2934	2.2934	2.0000e-005	0.0000	2.2937
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	4.8000e-004	5.7000e-004	6.0000e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9373	0.9373	5.0000e-005	0.0000	0.9384
Total	1.3800e-003	9.7100e-003	0.0181	4.0000e-005	2.4800e-003	1.4000e-004	2.6300e-003	6.5000e-004	1.3000e-004	7.8000e-004	0.0000	3.2307	3.2307	7.0000e-005	0.0000	3.2321

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.5400e-003	0.0000	3.5400e-003	5.4000e-004	0.0000	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-003	0.1298	0.1605	2.6000e-004		7.0200e-003	7.0200e-003		7.0200e-003	7.0200e-003	0.0000	24.3991	24.3991	6.5500e-003	0.0000	24.5366
Total	6.2000e-003	0.1298	0.1605	2.6000e-004	3.5400e-003	7.0200e-003	0.0106	5.4000e-004	7.0200e-003	7.5600e-003	0.0000	24.3991	24.3991	6.5500e-003	0.0000	24.5366

3.2 Demolition - 2016**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	9.0000e-004	9.1400e-003	0.0121	3.0000e-005	1.4300e-003	1.3000e-004	1.5700e-003	3.7000e-004	1.2000e-004	4.9000e-004	0.0000	2.2934	2.2934	2.0000e-005	0.0000	2.2937
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	4.8000e-004	5.7000e-004	6.0000e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9373	0.9373	5.0000e-005	0.0000	0.9384
Total	1.3800e-003	9.7100e-003	0.0181	4.0000e-005	2.4800e-003	1.4000e-004	2.6300e-003	6.5000e-004	1.3000e-004	7.8000e-004	0.0000	3.2307	3.2307	7.0000e-005	0.0000	3.2321

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	tons/yr										MT/yr					
Fugitive Dust					0.0150	0.0000	0.0150	2.2700e-003	0.0000	2.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0587	0.5973	0.4625	5.0000e-004		0.0335	0.0335		0.0312	0.0312	0.0000	45.9820	45.9820	0.0124	0.0000	46.2431
Total	0.0587	0.5973	0.4625	5.0000e-004	0.0150	0.0335	0.0486	2.2700e-003	0.0312	0.0335	0.0000	45.9820	45.9820	0.0124	0.0000	46.2431

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	tons/yr										MT/yr					
Hauling	1.5100e-003	0.0153	0.0214	5.0000e-005	1.5600e-003	2.2000e-004	1.7800e-003	4.2000e-004	2.0000e-004	6.2000e-004	0.0000	4.3037	4.3037	3.0000e-005	0.0000	4.3043
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	8.1000e-004	9.8000e-004	0.0102	2.0000e-005	2.0100e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.5000e-004	0.0000	1.7186	1.7186	9.0000e-005	0.0000	1.7204
Total	2.3200e-003	0.0163	0.0316	7.0000e-005	3.5700e-003	2.3000e-004	3.8000e-003	9.5000e-004	2.1000e-004	1.1700e-003	0.0000	6.0223	6.0223	1.2000e-004	0.0000	6.0248

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					6.7600e-003	0.0000	6.7600e-003	1.0200e-003	0.0000	1.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.2478	0.3064	5.0000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	45.9819	45.9819	0.0124	0.0000	46.2430
Total	0.0118	0.2478	0.3064	5.0000e-004	6.7600e-003	0.0134	0.0202	1.0200e-003	0.0134	0.0144	0.0000	45.9819	45.9819	0.0124	0.0000	46.2430

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	tons/yr										MT/yr					
Hauling	1.5100e-003	0.0153	0.0214	5.0000e-005	1.5600e-003	2.2000e-004	1.7800e-003	4.2000e-004	2.0000e-004	6.2000e-004	0.0000	4.3037	4.3037	3.0000e-005	0.0000	4.3043
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	8.1000e-004	9.8000e-004	0.0102	2.0000e-005	2.0100e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.5000e-004	0.0000	1.7186	1.7186	9.0000e-005	0.0000	1.7204
Total	2.3200e-003	0.0163	0.0316	7.0000e-005	3.5700e-003	2.3000e-004	3.8000e-003	9.5000e-004	2.1000e-004	1.1700e-003	0.0000	6.0223	6.0223	1.2000e-004	0.0000	6.0248

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	tons/yr										MT/yr					
Fugitive Dust					1.0100e-003	0.0000	1.0100e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0512	0.5833	0.3479	4.9000e-004		0.0281	0.0281		0.0258	0.0258	0.0000	45.0788	45.0788	0.0138	0.0000	45.3689
Total	0.0512	0.5833	0.3479	4.9000e-004	1.0100e-003	0.0281	0.0291	1.1000e-004	0.0258	0.0259	0.0000	45.0788	45.0788	0.0138	0.0000	45.3689

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	6.1000e-004	6.4300e-003	2.0000e-005	1.2600e-003	1.0000e-005	1.2700e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.0828	1.0828	5.0000e-005	0.0000	1.0839
Total	5.1000e-004	6.1000e-004	6.4300e-003	2.0000e-005	1.2600e-003	1.0000e-005	1.2700e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.0828	1.0828	5.0000e-005	0.0000	1.0839

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					4.5000e-004	0.0000	4.5000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0119	0.2340	0.2957	4.9000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	45.0788	45.0788	0.0138	0.0000	45.3688
Total	0.0119	0.2340	0.2957	4.9000e-004	4.5000e-004	0.0103	0.0107	5.0000e-005	0.0103	0.0103	0.0000	45.0788	45.0788	0.0138	0.0000	45.3688

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	6.1000e-004	6.4300e-003	2.0000e-005	1.2600e-003	1.0000e-005	1.2700e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.0828	1.0828	5.0000e-005	0.0000	1.0839
Total	5.1000e-004	6.1000e-004	6.4300e-003	2.0000e-005	1.2600e-003	1.0000e-005	1.2700e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.0828	1.0828	5.0000e-005	0.0000	1.0839

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	tons/yr										MT/yr					
Fugitive Dust					1.4700e-003	0.0000	1.4700e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0936	1.0010	0.7040	7.8000e-004		0.0516	0.0516		0.0475	0.0475	0.0000	72.1411	72.1411	0.0221	0.0000	72.6053
Total	0.0936	1.0010	0.7040	7.8000e-004	1.4700e-003	0.0516	0.0531	1.8000e-004	0.0475	0.0477	0.0000	72.1411	72.1411	0.0221	0.0000	72.6053

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	tons/yr										MT/yr					
Hauling	5.0300e-003	0.0511	0.0714	1.6000e-004	3.7400e-003	7.3000e-004	4.4700e-003	1.0300e-003	6.7000e-004	1.7000e-003	0.0000	14.3760	14.3760	1.0000e-004	0.0000	14.3780
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	9.4000e-004	9.8700e-003	2.0000e-005	1.9400e-003	1.0000e-005	1.9500e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.6620	1.6620	8.0000e-005	0.0000	1.6637
Total	5.8200e-003	0.0520	0.0813	1.8000e-004	5.6800e-003	7.4000e-004	6.4200e-003	1.5500e-003	6.8000e-004	2.2300e-003	0.0000	16.0379	16.0379	1.8000e-004	0.0000	16.0417

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					6.6000e-004	0.0000	6.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0189	0.3728	0.5034	7.8000e-004		0.0172	0.0172		0.0172	0.0172	0.0000	72.1410	72.1410	0.0221	0.0000	72.6052
Total	0.0189	0.3728	0.5034	7.8000e-004	6.6000e-004	0.0172	0.0179	8.0000e-005	0.0172	0.0173	0.0000	72.1410	72.1410	0.0221	0.0000	72.6052

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	tons/yr										MT/yr					
Hauling	5.0300e-003	0.0511	0.0714	1.6000e-004	3.7400e-003	7.3000e-004	4.4700e-003	1.0300e-003	6.7000e-004	1.7000e-003	0.0000	14.3760	14.3760	1.0000e-004	0.0000	14.3780
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	9.4000e-004	9.8700e-003	2.0000e-005	1.9400e-003	1.0000e-005	1.9500e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.6620	1.6620	8.0000e-005	0.0000	1.6637
Total	5.8200e-003	0.0520	0.0813	1.8000e-004	5.6800e-003	7.4000e-004	6.4200e-003	1.5500e-003	6.8000e-004	2.2300e-003	0.0000	16.0379	16.0379	1.8000e-004	0.0000	16.0417

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	tons/yr										MT/yr					
Off-Road	0.1209	0.8549	0.6009	9.4000e-004		0.0514	0.0514		0.0493	0.0493	0.0000	79.8664	79.8664	0.0179	0.0000	80.2430
Total	0.1209	0.8549	0.6009	9.4000e-004		0.0514	0.0514		0.0493	0.0493	0.0000	79.8664	79.8664	0.0179	0.0000	80.2430

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	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	0.0163	0.1062	0.2135	3.0000e-004	8.0800e-003	1.5800e-003	9.6700e-003	2.3100e-003	1.4500e-003	3.7600e-003	0.0000	26.2901	26.2901	2.0000e-004	0.0000	26.2943
Worker	0.0280	0.0337	0.3527	8.3000e-004	0.0693	5.1000e-004	0.0698	0.0184	4.7000e-004	0.0189	0.0000	59.3548	59.3548	3.0100e-003	0.0000	59.4181
Total	0.0443	0.1399	0.5662	1.1300e-003	0.0773	2.0900e-003	0.0794	0.0207	1.9200e-003	0.0227	0.0000	85.6449	85.6449	3.2100e-003	0.0000	85.7124

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	0.0266	0.5004	0.5791	9.4000e-004		0.0290	0.0290		0.0290	0.0290	0.0000	79.8663	79.8663	0.0179	0.0000	80.2429
Total	0.0266	0.5004	0.5791	9.4000e-004		0.0290	0.0290		0.0290	0.0290	0.0000	79.8663	79.8663	0.0179	0.0000	80.2429

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	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	0.0163	0.1062	0.2135	3.0000e-004	8.0800e-003	1.5800e-003	9.6700e-003	2.3100e-003	1.4500e-003	3.7600e-003	0.0000	26.2901	26.2901	2.0000e-004	0.0000	26.2943
Worker	0.0280	0.0337	0.3527	8.3000e-004	0.0693	5.1000e-004	0.0698	0.0184	4.7000e-004	0.0189	0.0000	59.3548	59.3548	3.0100e-003	0.0000	59.4181
Total	0.0443	0.1399	0.5662	1.1300e-003	0.0773	2.0900e-003	0.0794	0.0207	1.9200e-003	0.0227	0.0000	85.6449	85.6449	3.2100e-003	0.0000	85.7124

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	tons/yr										MT/yr					
Off-Road	0.1257	0.9113	0.6905	1.1200e-003		0.0524	0.0524		0.0503	0.0503	0.0000	94.5082	94.5082	0.0206	0.0000	94.9400
Total	0.1257	0.9113	0.6905	1.1200e-003		0.0524	0.0524		0.0503	0.0503	0.0000	94.5082	94.5082	0.0206	0.0000	94.9400

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	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	0.0000
Vendor	0.0160	0.1141	0.2297	3.5000e-004	9.6400e-003	1.7300e-003	0.0114	2.7600e-003	1.5900e-003	4.3500e-003	0.0000	30.7760	30.7760	2.3000e-004	0.0000	30.7809	
Worker	0.0298	0.0361	0.3779	9.9000e-004	0.0826	6.0000e-004	0.0832	0.0220	5.5000e-004	0.0225	0.0000	68.1141	68.1141	3.3100e-003	0.0000	68.1836	
Total	0.0459	0.1502	0.6076	1.3400e-003	0.0922	2.3300e-003	0.0946	0.0247	2.1400e-003	0.0269	0.0000	98.8901	98.8901	3.5400e-003	0.0000	98.9645	

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	0.0317	0.5968	0.6907	1.1200e-003		0.0346	0.0346		0.0346	0.0346	0.0000	94.5081	94.5081	0.0206	0.0000	94.9398
Total	0.0317	0.5968	0.6907	1.1200e-003		0.0346	0.0346		0.0346	0.0346	0.0000	94.5081	94.5081	0.0206	0.0000	94.9398

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	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	0.0160	0.1141	0.2297	3.5000e-004	9.6400e-003	1.7300e-003	0.0114	2.7600e-003	1.5900e-003	4.3500e-003	0.0000	30.7760	30.7760	2.3000e-004	0.0000	30.7809
Worker	0.0298	0.0361	0.3779	9.9000e-004	0.0826	6.0000e-004	0.0832	0.0220	5.5000e-004	0.0225	0.0000	68.1141	68.1141	3.3100e-003	0.0000	68.1836
Total	0.0459	0.1502	0.6076	1.3400e-003	0.0922	2.3300e-003	0.0946	0.0247	2.1400e-003	0.0269	0.0000	98.8901	98.8901	3.5400e-003	0.0000	98.9645

3.6 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	0.0256	0.2361	0.1682	2.2000e-004		0.0175	0.0175		0.0162	0.0162	0.0000	20.4328	20.4328	6.1600e-003	0.0000	20.5621
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0256	0.2361	0.1682	2.2000e-004		0.0175	0.0175		0.0162	0.0162	0.0000	20.4328	20.4328	6.1600e-003	0.0000	20.5621

3.6 Paving - 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	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	8.5000e-004	1.0200e-003	0.0107	3.0000e-005	2.1000e-003	2.0000e-005	2.1200e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.8004	1.8004	9.0000e-005	0.0000	1.8024
Total	8.5000e-004	1.0200e-003	0.0107	3.0000e-005	2.1000e-003	2.0000e-005	2.1200e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.8004	1.8004	9.0000e-005	0.0000	1.8024

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	5.2700e-003	0.1204	0.1626	2.2000e-004		8.4400e-003	8.4400e-003		8.4400e-003	8.4400e-003	0.0000	20.4328	20.4328	6.1600e-003	0.0000	20.5620
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.2700e-003	0.1204	0.1626	2.2000e-004		8.4400e-003	8.4400e-003		8.4400e-003	8.4400e-003	0.0000	20.4328	20.4328	6.1600e-003	0.0000	20.5620

3.6 Paving - 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	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	8.5000e-004	1.0200e-003	0.0107	3.0000e-005	2.1000e-003	2.0000e-005	2.1200e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.8004	1.8004	9.0000e-005	0.0000	1.8024
Total	8.5000e-004	1.0200e-003	0.0107	3.0000e-005	2.1000e-003	2.0000e-005	2.1200e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.8004	1.8004	9.0000e-005	0.0000	1.8024

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	tons/yr										MT/yr					
Archit. Coating	1.5017					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4700e-003	0.0435	0.0402	6.0000e-005		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	5.5321	5.5321	5.3000e-004	0.0000	5.5431
Total	1.5082	0.0435	0.0402	6.0000e-005		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	5.5321	5.5321	5.3000e-004	0.0000	5.5431

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	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	3.0200e-003	3.6600e-003	0.0382	1.0000e-004	8.3500e-003	6.0000e-005	8.4100e-003	2.2200e-003	6.0000e-005	2.2800e-003	0.0000	6.8902	6.8902	3.3000e-004	0.0000	6.8972
Total	3.0200e-003	3.6600e-003	0.0382	1.0000e-004	8.3500e-003	6.0000e-005	8.4100e-003	2.2200e-003	6.0000e-005	2.2800e-003	0.0000	6.8902	6.8902	3.3000e-004	0.0000	6.8972

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					
Archit. Coating	1.5017					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2900e-003	0.0294	0.0397	6.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	5.5321	5.5321	5.3000e-004	0.0000	5.5431
Total	1.5030	0.0294	0.0397	6.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	5.5321	5.5321	5.3000e-004	0.0000	5.5431

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	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	3.0200e-003	3.6600e-003	0.0382	1.0000e-004	8.3500e-003	6.0000e-005	8.4100e-003	2.2200e-003	6.0000e-005	2.2800e-003	0.0000	6.8902	6.8902	3.3000e-004	0.0000	6.8972
Total	3.0200e-003	3.6600e-003	0.0382	1.0000e-004	8.3500e-003	6.0000e-005	8.4100e-003	2.2200e-003	6.0000e-005	2.2800e-003	0.0000	6.8902	6.8902	3.3000e-004	0.0000	6.8972

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9790	2.1557	10.1178	0.0229	1.5960	0.0296	1.6256	0.4276	0.0273	0.4548	0.0000	1,688.0239	1,688.0239	0.0686	0.0000	1,689.4638
Unmitigated	0.9790	2.1557	10.1178	0.0229	1.5960	0.0296	1.6256	0.4276	0.0273	0.4548	0.0000	1,688.0239	1,688.0239	0.0686	0.0000	1,689.4638

Phase 3 Construction Emissions

CalEEMod Outputs (Winter, Summer, Annual)

Sac Commons - Phase 3 Construction
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	211.65	1000sqft	1.83	211,650.00	0
Apartments Mid Rise	240.00	Dwelling Unit	1.79	212,750.00	480
Strip Mall	4.50	1000sqft	0.04	4,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User defined data.

Construction Phase - Schedule from PD.

Off-road Equipment - Updated LF based on new CalEEMod guidance.

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Adjust to default CalEEMod HP and LF

Off-road Equipment - Revised HP and LF based on updated CalEEMod guidance. An excavator was added to the project to handle the additional earthwork activity.

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Adjust to default CalEEMod HP

Trips and VMT - User defined values from earthworks activity and customized acreages.

Demolition -

Grading - User defined values.

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Potential mitigation measure (all Tier 3)

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	108,075.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	324,225.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	143,606.00	162,000.00
tblArchitecturalCoating	ConstArea_Residential_Interior	430,819.00	486,000.00
tblAreaCoating	Area_Nonresidential_Interior	324225	0
tblAreaCoating	Area_Residential_Exterior	143606	162000
tblAreaCoating	Area_Residential_Interior	430819	486000
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	260.00

tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	8.00	65.00
tblConstructionPhase	NumDays	18.00	65.00
tblConstructionPhase	NumDays	5.00	42.00
tblConstructionPhase	PhaseEndDate	12/31/2018	9/30/2019
tblConstructionPhase	PhaseEndDate	6/28/2019	6/30/2019
tblConstructionPhase	PhaseEndDate	6/29/2018	6/30/2018
tblConstructionPhase	PhaseEndDate	9/27/2019	9/30/2018
tblConstructionPhase	PhaseEndDate	3/30/2018	3/31/2018
tblConstructionPhase	PhaseStartDate	10/1/2018	7/1/2019
tblConstructionPhase	PhaseStartDate	7/1/2019	7/1/2018
tblGrading	AcresOfGrading	32.50	1.83
tblGrading	AcresOfGrading	0.00	1.83
tblGrading	MaterialExported	0.00	4,452.00
tblLandUse	LandUseSquareFeet	240,000.00	212,750.00
tblLandUse	LotAcreage	4.86	1.83
tblLandUse	LotAcreage	6.32	1.79
tblLandUse	LotAcreage	0.10	0.04
tblLandUse	Population	641.00	480.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	125.00	89.00
tblOffRoadEquipment	HorsePower	130.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00

tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	199.00	358.00
tblOffRoadEquipment	LoadFactor	0.48	0.32
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripNumber	557.00	445.00
tblTripsAndVMT	VendorTripNumber	61.00	26.00
tblTripsAndVMT	WorkerTripNumber	8.00	13.00
tblTripsAndVMT	WorkerTripNumber	18.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	263.00	173.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblTripsAndVMT	WorkerTripNumber	53.00	35.00

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					
2017	3.8515	40.6773	32.1062	0.0325	0.8675	1.9374	2.8049	0.1512	1.7988	1.9500	0.0000	3,259.3609	3,259.3609	0.8240	0.0000	3,276.6641
2018	4.8131	43.2518	39.4153	0.0629	18.1733	2.4502	20.3701	9.9518	2.2744	11.9729	0.0000	5,860.8667	5,860.8667	1.2345	0.0000	5,886.7902
2019	45.7728	21.3983	25.2361	0.0447	1.4688	1.1017	2.5704	0.3926	1.0311	1.4237	0.0000	3,981.9415	3,981.9415	0.6865	0.0000	3,996.3582
Total	54.4374	105.3274	96.7576	0.1401	20.5096	5.4892	25.7455	10.4956	5.1043	15.3466	0.0000	13,102.1691	13,102.1691	2.7449	0.0000	13,159.8124

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					
2017	0.8095	14.4110	17.4014	0.0325	0.4861	0.5897	1.0758	0.0934	0.5888	0.6822	0.0000	3,259.3609	3,259.3609	0.8240	0.0000	3,276.6641
2018	1.8308	24.4990	40.6505	0.0629	8.2115	1.4216	9.0627	4.4872	1.4187	5.3384	0.0000	5,860.8667	5,860.8667	1.2345	0.0000	5,886.7902
2019	45.6347	14.6870	26.5971	0.0447	1.4688	0.7495	2.2183	0.3926	0.7468	1.1394	0.0000	3,981.9415	3,981.9415	0.6865	0.0000	3,996.3582
Total	48.2750	53.5970	84.6490	0.1401	10.1663	2.7607	12.3567	4.9732	2.7543	7.1600	0.0000	13,102.1691	13,102.1691	2.7449	0.0000	13,159.8124

	ROG	NOx	CO	SO2	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	11.32	49.11	12.51	0.00	50.43	49.71	52.00	52.62	46.04	53.34	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	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	11/1/2017	1/31/2018	5	66	
2	Site Preparation	Site Preparation	2/1/2018	3/31/2018	5	42	
3	Grading	Grading	4/1/2018	6/30/2018	5	65	
4	Building Construction	Building Construction	7/1/2018	6/30/2019	5	260	
5	Paving	Paving	7/1/2018	9/30/2018	5	65	
6	Architectural Coating	Architectural Coating	7/1/2019	9/30/2019	5	66	

Acres of Grading (Site Preparation Phase): 1.83

Acres of Grading (Grading Phase): 1.83

Acres of Paving: 0

Residential Indoor: 486,000; Residential Outdoor: 162,000; 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	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	2	8.00	358	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Loaders	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	7.00	208	0.29
Building Construction	Forklifts	3	8.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	3	7.00	75	0.37
Building Construction	Welders	1	8.00	46	0.30
Paving	Pavers	2	8.00	89	0.42
Paving	Paving Equipment	2	8.00	82	0.36
Paving	Rollers	2	8.00	84	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	3	13.00	0.00	203.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	8.00	0.00	445.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	173.00	26.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

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					
Fugitive Dust					0.6936	0.0000	0.6936	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	3.7322	39.9032	30.4281	0.0292		1.9266	1.9266		1.7889	1.7889		2,952.977 7	2,952.977 7	0.8179		2,970.153 6
Total	3.7322	39.9032	30.4281	0.0292	0.6936	1.9266	2.6202	0.1050	1.7889	1.8939		2,952.977 7	2,952.977 7	0.8179		2,970.153 6

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	0.0792	0.7222	1.1751	2.2200e-003	0.0751	0.0101	0.0852	0.0199	9.2600e-003	0.0292		218.7504	218.7504	1.4800e-003			218.7816
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	0.0401	0.0519	0.5030	1.1100e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		87.6327	87.6327	4.5800e-003			87.7289
Total	0.1193	0.7741	1.6781	3.3300e-003	0.1740	0.0108	0.1847	0.0462	9.9100e-003	0.0561		306.3832	306.3832	6.0600e-003			306.5105

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					0.3121	0.0000	0.3121	0.0473	0.0000	0.0473			0.0000				0.0000
Off-Road	0.6902	13.6369	15.7233	0.0292		0.5789	0.5789		0.5789	0.5789	0.0000	2,952.9777	2,952.9777	0.8179			2,970.1535
Total	0.6902	13.6369	15.7233	0.0292	0.3121	0.5789	0.8910	0.0473	0.5789	0.6262	0.0000	2,952.9777	2,952.9777	0.8179			2,970.1535

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	0.0792	0.7222	1.1751	2.2200e-003	0.0751	0.0101	0.0852	0.0199	9.2600e-003	0.0292		218.7504	218.7504	1.4800e-003		218.7816
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	0.0401	0.0519	0.5030	1.1100e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		87.6327	87.6327	4.5800e-003		87.7289
Total	0.1193	0.7741	1.6781	3.3300e-003	0.1740	0.0108	0.1847	0.0462	9.9100e-003	0.0561		306.3832	306.3832	6.0600e-003		306.5105

3.2 Demolition - 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					
Fugitive Dust					0.6936	0.0000	0.6936	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	3.3696	35.4701	27.6652	0.0292		1.6956	1.6956		1.5743	1.5743		2,914.2699	2,914.2699	0.8142		2,931.3682
Total	3.3696	35.4701	27.6652	0.0292	0.6936	1.6956	2.3892	0.1050	1.5743	1.6793		2,914.2699	2,914.2699	0.8142		2,931.3682

3.2 Demolition - 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	0.0667	0.6470	1.0951	2.2100e-003	0.1293	9.8200e-003	0.1392	0.0333	9.0300e-003	0.0423		214.6428	214.6428	1.4700e-003		214.6737
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	0.0357	0.0467	0.4501	1.1100e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		84.3182	84.3182	4.2100e-003		84.4067
Total	0.1024	0.6937	1.5452	3.3200e-003	0.2282	0.0105	0.2387	0.0595	9.6700e-003	0.0692		298.9610	298.9610	5.6800e-003		299.0803

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					0.3121	0.0000	0.3121	0.0473	0.0000	0.0473			0.0000			0.0000
Off-Road	0.6902	13.6369	15.7233	0.0292		0.5789	0.5789		0.5789	0.5789	0.0000	2,914.2699	2,914.2699	0.8142		2,931.3682
Total	0.6902	13.6369	15.7233	0.0292	0.3121	0.5789	0.8910	0.0473	0.5789	0.6262	0.0000	2,914.2699	2,914.2699	0.8142		2,931.3682

3.2 Demolition - 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	0.0667	0.6470	1.0951	2.2100e-003	0.1293	9.8200e-003	0.1392	0.0333	9.0300e-003	0.0423		214.6428	214.6428	1.4700e-003		214.6737
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	0.0357	0.0467	0.4501	1.1100e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		84.3182	84.3182	4.2100e-003		84.4067
Total	0.1024	0.6937	1.5452	3.3200e-003	0.2282	0.0105	0.2387	0.0595	9.6700e-003	0.0692		298.9610	298.9610	5.6800e-003		299.0803

3.3 Site Preparation - 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					
Fugitive Dust					18.1125	0.0000	18.1125	9.9357	0.0000	9.9357			0.0000			0.0000
Off-Road	4.0507	43.2231	34.1147	0.0363		2.1964	2.1964		2.0207	2.0207		3,656.0176	3,656.0176	1.1382		3,679.9192
Total	4.0507	43.2231	34.1147	0.0363	18.1125	2.1964	20.3089	9.9357	2.0207	11.9564		3,656.0176	3,656.0176	1.1382		3,679.9192

3.3 Site Preparation - 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	0.0219	0.0288	0.2770	6.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		51.8881	51.8881	2.5900e-003			51.9426
Total	0.0219	0.0288	0.2770	6.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		51.8881	51.8881	2.5900e-003			51.9426

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					8.1506	0.0000	8.1506	4.4711	0.0000	4.4711			0.0000			0.0000
Off-Road	0.8826	17.8850	21.2755	0.0363		0.8508	0.8508		0.8508	0.8508	0.0000	3,656.0176	3,656.0176	1.1382		3,679.9192
Total	0.8826	17.8850	21.2755	0.0363	8.1506	0.8508	9.0014	4.4711	0.8508	5.3219	0.0000	3,656.0176	3,656.0176	1.1382		3,679.9192

3.3 Site Preparation - 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	0.0219	0.0288	0.2770	6.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		51.8881	51.8881	2.5900e-003		51.9426
Total	0.0219	0.0288	0.2770	6.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		51.8881	51.8881	2.5900e-003		51.9426

3.4 Grading - 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					
Fugitive Dust					0.0440	0.0000	0.0440	5.3700e-003	0.0000	5.3700e-003			0.0000			0.0000
Off-Road	2.1379	22.4018	14.2774	0.0249		1.1107	1.1107		1.0219	1.0219		2,511.1215	2,511.1215	0.7818		2,527.5382
Total	2.1379	22.4018	14.2774	0.0249	0.0440	1.1107	1.1548	5.3700e-003	1.0219	1.0273		2,511.1215	2,511.1215	0.7818		2,527.5382

3.4 Grading - 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						
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	0.0219	0.0288	0.2770	6.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		51.8881	51.8881	2.5900e-003			51.9426
Hauling	0.1485	1.4401	2.4375	4.9200e-003	0.1187	0.0219	0.1405	0.0325	0.0201	0.0526		477.7612	477.7612	3.2700e-003			477.8299
Total	0.1705	1.4688	2.7145	5.6000e-003	0.1795	0.0223	0.2018	0.0486	0.0205	0.0691		529.6493	529.6493	5.8600e-003			529.7724

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					0.0198	0.0000	0.0198	2.4200e-003	0.0000	2.4200e-003			0.0000				0.0000
Off-Road	0.6148	12.0910	16.5243	0.0249		0.5599	0.5599		0.5599	0.5599	0.0000	2,511.1215	2,511.1215	0.7818			2,527.5382
Total	0.6148	12.0910	16.5243	0.0249	0.0198	0.5599	0.5797	2.4200e-003	0.5599	0.5623	0.0000	2,511.1215	2,511.1215	0.7818			2,527.5382

3.4 Grading - 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						
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	0.0219	0.0288	0.2770	6.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		51.8881	51.8881	2.5900e-003			51.9426
Hauling	0.1485	1.4401	2.4375	4.9200e-003	0.1187	0.0219	0.1405	0.0325	0.0201	0.0526		477.7612	477.7612	3.2700e-003			477.8299
Total	0.1705	1.4688	2.7145	5.6000e-003	0.1795	0.0223	0.2018	0.0486	0.0205	0.0691		529.6493	529.6493	5.8600e-003			529.7724

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	2.2994	21.5967	15.7616	0.0247		1.2438	1.2438		1.1645	1.1645		2,424.8911	2,424.8911	0.6377			2,438.2826
Total	2.2994	21.5967	15.7616	0.0247		1.2438	1.2438		1.1645	1.1645		2,424.8911	2,424.8911	0.6377			2,438.2826

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	0.2878	1.7848	4.5674	5.3800e-003	0.1527	0.0269	0.1796	0.0435	0.0247	0.0682		519.2505	519.2505	4.0100e-003			519.3347
Worker	0.4745	0.6220	5.9892	0.0148	1.3160	9.1600e-003	1.3252	0.3491	8.4700e-003	0.3576		1,122.0801	1,122.0801	0.0561			1,123.2579
Total	0.7623	2.4068	10.5566	0.0201	1.4687	0.0361	1.5048	0.3926	0.0332	0.4258		1,641.3306	1,641.3306	0.0601			1,642.5927

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	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,424.8911	2,424.8911	0.6377			2,438.2826
Total	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,424.8911	2,424.8911	0.6377			2,438.2826

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	0.2878	1.7848	4.5674	5.3800e-003	0.1527	0.0269	0.1796	0.0435	0.0247	0.0682		519.2505	519.2505	4.0100e-003		519.3347
Worker	0.4745	0.6220	5.9892	0.0148	1.3160	9.1600e-003	1.3252	0.3491	8.4700e-003	0.3576		1,122.0801	1,122.0801	0.0561		1,123.2579
Total	0.7623	2.4068	10.5566	0.0201	1.4687	0.0361	1.5048	0.3926	0.0332	0.4258		1,641.3306	1,641.3306	0.0601		1,642.5927

3.5 Building Construction - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0292	19.2057	15.3855	0.0247		1.0677	1.0677		0.9999	0.9999		2,394.4652	2,394.4652	0.6304		2,407.7040
Total	2.0292	19.2057	15.3855	0.0247		1.0677	1.0677		0.9999	0.9999		2,394.4652	2,394.4652	0.6304		2,407.7040

3.5 Building Construction - 2019

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	0.2584	1.6239	4.3548	5.3800e-003	0.1528	0.0249	0.1776	0.0435	0.0229	0.0664		510.8333	510.8333	3.9100e-003			510.9154
Worker	0.4342	0.5687	5.4958	0.0147	1.3160	9.0400e-003	1.3251	0.3491	8.3800e-003	0.3575		1,076.6431	1,076.6431	0.0522			1,077.7387
Total	0.6927	2.1926	9.8506	0.0201	1.4688	0.0339	1.5027	0.3926	0.0313	0.4238		1,587.4763	1,587.4763	0.0561			1,588.6541

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	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,394.4652	2,394.4652	0.6304			2,407.7040
Total	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,394.4652	2,394.4652	0.6304			2,407.7040

3.5 Building Construction - 2019

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	0.2584	1.6239	4.3548	5.3800e-003	0.1528	0.0249	0.1776	0.0435	0.0229	0.0664		510.8333	510.8333	3.9100e-003			510.9154
Worker	0.4342	0.5687	5.4958	0.0147	1.3160	9.0400e-003	1.3251	0.3491	8.3800e-003	0.3575		1,076.6431	1,076.6431	0.0522			1,077.7387
Total	0.6927	2.1926	9.8506	0.0201	1.4688	0.0339	1.5027	0.3926	0.0313	0.4238		1,587.4763	1,587.4763	0.0561			1,588.6541

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	1.7159	16.3011	12.6471	0.0170		1.1696	1.1696		1.0761	1.0761		1,710.3268	1,710.3268	0.5325			1,721.5083
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7159	16.3011	12.6471	0.0170		1.1696	1.1696		1.0761	1.0761		1,710.3268	1,710.3268	0.5325			1,721.5083

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	0.0357	0.0467	0.4501	1.1100e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		84.3182	84.3182	4.2100e-003		84.4067
Total	0.0357	0.0467	0.4501	1.1100e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		84.3182	84.3182	4.2100e-003		84.4067

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	0.4183	9.5510	12.8974	0.0170		0.6693	0.6693		0.6693	0.6693	0.0000	1,710.3268	1,710.3268	0.5325		1,721.5083
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4183	9.5510	12.8974	0.0170		0.6693	0.6693		0.6693	0.6693	0.0000	1,710.3268	1,710.3268	0.5325		1,721.5083

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	0.0357	0.0467	0.4501	1.1100e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		84.3182	84.3182	4.2100e-003			84.4067
Total	0.0357	0.0467	0.4501	1.1100e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		84.3182	84.3182	4.2100e-003			84.4067

3.7 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	45.5073					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159			187.9648
Total	45.6849	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159			187.9648

3.7 Architectural Coating - 2019

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	0.0879	0.1151	1.1119	2.9700e-003	0.2662	1.8300e-003	0.2681	0.0706	1.7000e-003	0.0723		217.8180	217.8180	0.0106			218.0396
Total	0.0879	0.1151	1.1119	2.9700e-003	0.2662	1.8300e-003	0.2681	0.0706	1.7000e-003	0.0723		217.8180	217.8180	0.0106			218.0396

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	45.5073					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0396	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0159			187.9648
Total	45.5469	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0159			187.9648

3.7 Architectural Coating - 2019

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	0.0879	0.1151	1.1119	2.9700e-003	0.2662	1.8300e-003	0.2681	0.0706	1.7000e-003	0.0723		217.8180	217.8180	0.0106			218.0396
Total	0.0879	0.1151	1.1119	2.9700e-003	0.2662	1.8300e-003	0.2681	0.0706	1.7000e-003	0.0723		217.8180	217.8180	0.0106			218.0396

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	5.6981	12.5488	61.8963	0.1331	9.8568	0.1698	10.0266	2.6331	0.1565	2.7897		10,512.1673	10,512.1673	0.4204			10,520.9960
Unmitigated	5.6981	12.5488	61.8963	0.1331	9.8568	0.1698	10.0266	2.6331	0.1565	2.7897		10,512.1673	10,512.1673	0.4204			10,520.9960

Sac Commons - Phase 3 Construction
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	211.65	1000sqft	1.83	211,650.00	0
Apartments Mid Rise	240.00	Dwelling Unit	1.79	212,750.00	480
Strip Mall	4.50	1000sqft	0.04	4,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User defined data.

Construction Phase - Schedule from PD.

Off-road Equipment - Updated LF based on new CalEEMod guidance.

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Adjust to default CalEEMod HP and LF

Off-road Equipment - Revised HP and LF based on updated CalEEMod guidance. An excavator was added to the project to handle the additional earthwork activity.

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Adjust to default CalEEMod HP

Trips and VMT - User defined values from earthworks activity and customized acreages.

Demolition -

Grading - User defined values.

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Potential mitigation measure (all Tier 3)

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	108,075.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	324,225.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	143,606.00	162,000.00
tblArchitecturalCoating	ConstArea_Residential_Interior	430,819.00	486,000.00
tblAreaCoating	Area_Nonresidential_Interior	324225	0
tblAreaCoating	Area_Residential_Exterior	143606	162000
tblAreaCoating	Area_Residential_Interior	430819	486000
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	260.00

tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	8.00	65.00
tblConstructionPhase	NumDays	18.00	65.00
tblConstructionPhase	NumDays	5.00	42.00
tblConstructionPhase	PhaseEndDate	12/31/2018	9/30/2019
tblConstructionPhase	PhaseEndDate	6/28/2019	6/30/2019
tblConstructionPhase	PhaseEndDate	6/29/2018	6/30/2018
tblConstructionPhase	PhaseEndDate	9/27/2019	9/30/2018
tblConstructionPhase	PhaseEndDate	3/30/2018	3/31/2018
tblConstructionPhase	PhaseStartDate	10/1/2018	7/1/2019
tblConstructionPhase	PhaseStartDate	7/1/2019	7/1/2018
tblGrading	AcresOfGrading	32.50	1.83
tblGrading	AcresOfGrading	0.00	1.83
tblGrading	MaterialExported	0.00	4,452.00
tblLandUse	LandUseSquareFeet	240,000.00	212,750.00
tblLandUse	LotAcreage	4.86	1.83
tblLandUse	LotAcreage	6.32	1.79
tblLandUse	LotAcreage	0.10	0.04
tblLandUse	Population	641.00	480.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	125.00	89.00
tblOffRoadEquipment	HorsePower	130.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00

tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	199.00	358.00
tblOffRoadEquipment	LoadFactor	0.48	0.32
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripNumber	557.00	445.00
tblTripsAndVMT	VendorTripNumber	61.00	26.00
tblTripsAndVMT	WorkerTripNumber	8.00	13.00
tblTripsAndVMT	WorkerTripNumber	18.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	263.00	173.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblTripsAndVMT	WorkerTripNumber	53.00	35.00

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					
2017	3.8433	40.6078	31.8702	0.0326	0.8675	1.9373	2.8049	0.1512	1.7988	1.9500	0.0000	3,272.0895	3,272.0895	0.8239	0.0000	3,289.3923
2018	4.8366	43.2463	38.5195	0.0652	18.1733	2.4498	20.3701	9.9518	2.2740	11.9729	0.0000	6,033.4693	6,033.4693	1.2343	0.0000	6,059.3900
2019	45.7881	21.1831	24.2811	0.0468	1.4688	1.1013	2.5701	0.3926	1.0308	1.4234	0.0000	4,136.4007	4,136.4007	0.6864	0.0000	4,150.8146
Total	54.4679	105.0372	94.6708	0.1446	20.5096	5.4884	25.7451	10.4956	5.1036	15.3462	0.0000	13,441.9596	13,441.9596	2.7446	0.0000	13,499.5968

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					
2017	0.8012	14.3415	17.1654	0.0326	0.4861	0.5897	1.0757	0.0934	0.5888	0.6822	0.0000	3,272.0895	3,272.0895	0.8239	0.0000	3,289.3922
2018	1.8542	24.2526	39.7546	0.0652	8.2115	1.4212	9.0627	4.4872	1.4183	5.3384	0.0000	6,033.4693	6,033.4693	1.2343	0.0000	6,059.3900
2019	45.6501	14.4719	25.6422	0.0468	1.4688	0.7491	2.2179	0.3926	0.7465	1.1391	0.0000	4,136.4007	4,136.4007	0.6864	0.0000	4,150.8146
Total	48.3055	53.0659	82.5622	0.1446	10.1663	2.7600	12.3563	4.9732	2.7536	7.1597	0.0000	13,441.9596	13,441.9596	2.7446	0.0000	13,499.5968

	ROG	NOx	CO	SO2	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	11.31	49.48	12.79	0.00	50.43	49.71	52.01	52.62	46.05	53.35	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	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	11/1/2017	1/31/2018	5	66	
2	Site Preparation	Site Preparation	2/1/2018	3/31/2018	5	42	
3	Grading	Grading	4/1/2018	6/30/2018	5	65	
4	Building Construction	Building Construction	7/1/2018	6/30/2019	5	260	
5	Paving	Paving	7/1/2018	9/30/2018	5	65	
6	Architectural Coating	Architectural Coating	7/1/2019	9/30/2019	5	66	

Acres of Grading (Site Preparation Phase): 1.83

Acres of Grading (Grading Phase): 1.83

Acres of Paving: 0

Residential Indoor: 486,000; Residential Outdoor: 162,000; 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	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	2	8.00	358	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Loaders	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	7.00	208	0.29
Building Construction	Forklifts	3	8.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	3	7.00	75	0.37
Building Construction	Welders	1	8.00	46	0.30
Paving	Pavers	2	8.00	89	0.42
Paving	Paving Equipment	2	8.00	82	0.36
Paving	Rollers	2	8.00	84	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	3	13.00	0.00	203.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	8.00	0.00	445.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	173.00	26.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

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					
Fugitive Dust					0.6936	0.0000	0.6936	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	3.7322	39.9032	30.4281	0.0292		1.9266	1.9266		1.7889	1.7889		2,952.9777	2,952.9777	0.8179		2,970.1536
Total	3.7322	39.9032	30.4281	0.0292	0.6936	1.9266	2.6202	0.1050	1.7889	1.8939		2,952.9777	2,952.9777	0.8179		2,970.1536

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	0.0646	0.6627	0.8806	2.2200e-003	0.0751	0.0100	0.0851	0.0199	9.2300e-003	0.0292		219.2850	219.2850	1.4600e-003			219.3156
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	0.0465	0.0419	0.5616	1.2600e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		99.8269	99.8269	4.5800e-003			99.9231
Total	0.1110	0.7046	1.4422	3.4800e-003	0.1740	0.0107	0.1847	0.0462	9.8800e-003	0.0560		319.1118	319.1118	6.0400e-003			319.2387

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					0.3121	0.0000	0.3121	0.0473	0.0000	0.0473			0.0000			0.0000	
Off-Road	0.6902	13.6369	15.7233	0.0292		0.5789	0.5789		0.5789	0.5789	0.0000	2,952.9777	2,952.9777	0.8179			2,970.1535
Total	0.6902	13.6369	15.7233	0.0292	0.3121	0.5789	0.8910	0.0473	0.5789	0.6262	0.0000	2,952.9777	2,952.9777	0.8179			2,970.1535

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	0.0646	0.6627	0.8806	2.2200e-003	0.0751	0.0100	0.0851	0.0199	9.2300e-003	0.0292		219.2850	219.2850	1.4600e-003		219.3156
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	0.0465	0.0419	0.5616	1.2600e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		99.8269	99.8269	4.5800e-003		99.9231
Total	0.1110	0.7046	1.4422	3.4800e-003	0.1740	0.0107	0.1847	0.0462	9.8800e-003	0.0560		319.1118	319.1118	6.0400e-003		319.2387

3.2 Demolition - 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					
Fugitive Dust					0.6936	0.0000	0.6936	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	3.3696	35.4701	27.6652	0.0292		1.6956	1.6956		1.5743	1.5743		2,914.2699	2,914.2699	0.8142		2,931.3682
Total	3.3696	35.4701	27.6652	0.0292	0.6936	1.6956	2.3892	0.1050	1.5743	1.6793		2,914.2699	2,914.2699	0.8142		2,931.3682

3.2 Demolition - 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	0.0559	0.5933	0.7920	2.2100e-003	0.1293	9.7900e-003	0.1391	0.0333	9.0000e-003	0.0423		215.1688	215.1688	1.4400e-003		215.1991
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	0.0417	0.0377	0.5066	1.2600e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		96.0602	96.0602	4.2100e-003		96.1487
Total	0.0976	0.6310	1.2986	3.4700e-003	0.2282	0.0105	0.2387	0.0595	9.6400e-003	0.0691		311.2290	311.2290	5.6500e-003		311.3478

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					0.3121	0.0000	0.3121	0.0473	0.0000	0.0473			0.0000			0.0000
Off-Road	0.6902	13.6369	15.7233	0.0292		0.5789	0.5789		0.5789	0.5789	0.0000	2,914.2699	2,914.2699	0.8142		2,931.3682
Total	0.6902	13.6369	15.7233	0.0292	0.3121	0.5789	0.8910	0.0473	0.5789	0.6262	0.0000	2,914.2699	2,914.2699	0.8142		2,931.3682

3.2 Demolition - 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	0.0559	0.5933	0.7920	2.2100e-003	0.1293	9.7900e-003	0.1391	0.0333	9.0000e-003	0.0423		215.1688	215.1688	1.4400e-003		215.1991
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	0.0417	0.0377	0.5066	1.2600e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		96.0602	96.0602	4.2100e-003		96.1487
Total	0.0976	0.6310	1.2986	3.4700e-003	0.2282	0.0105	0.2387	0.0595	9.6400e-003	0.0691		311.2290	311.2290	5.6500e-003		311.3478

3.3 Site Preparation - 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					
Fugitive Dust					18.1125	0.0000	18.1125	9.9357	0.0000	9.9357			0.0000			0.0000
Off-Road	4.0507	43.2231	34.1147	0.0363		2.1964	2.1964		2.0207	2.0207		3,656.0176	3,656.0176	1.1382		3,679.9192
Total	4.0507	43.2231	34.1147	0.0363	18.1125	2.1964	20.3089	9.9357	2.0207	11.9564		3,656.0176	3,656.0176	1.1382		3,679.9192

3.3 Site Preparation - 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	0.0256	0.0232	0.3117	7.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		59.1140	59.1140	2.5900e-003		59.1685
Total	0.0256	0.0232	0.3117	7.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		59.1140	59.1140	2.5900e-003		59.1685

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					8.1506	0.0000	8.1506	4.4711	0.0000	4.4711			0.0000			0.0000
Off-Road	0.8826	17.8850	21.2755	0.0363		0.8508	0.8508		0.8508	0.8508	0.0000	3,656.0176	3,656.0176	1.1382		3,679.9192
Total	0.8826	17.8850	21.2755	0.0363	8.1506	0.8508	9.0014	4.4711	0.8508	5.3219	0.0000	3,656.0176	3,656.0176	1.1382		3,679.9192

3.3 Site Preparation - 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	0.0256	0.0232	0.3117	7.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		59.1140	59.1140	2.5900e-003		59.1685
Total	0.0256	0.0232	0.3117	7.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		59.1140	59.1140	2.5900e-003		59.1685

3.4 Grading - 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					
Fugitive Dust					0.0440	0.0000	0.0440	5.3700e-003	0.0000	5.3700e-003			0.0000			0.0000
Off-Road	2.1379	22.4018	14.2774	0.0249		1.1107	1.1107		1.0219	1.0219		2,511.1215	2,511.1215	0.7818		2,527.5382
Total	2.1379	22.4018	14.2774	0.0249	0.0440	1.1107	1.1548	5.3700e-003	1.0219	1.0273		2,511.1215	2,511.1215	0.7818		2,527.5382

3.4 Grading - 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	0.1245	1.3206	1.7629	4.9200e-003	0.1187	0.0218	0.1405	0.0325	0.0200	0.0525		478.9319	478.9319	3.2200e-003		478.9994
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	0.0256	0.0232	0.3117	7.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		59.1140	59.1140	2.5900e-003		59.1685
Total	0.1502	1.3438	2.0746	5.7000e-003	0.1795	0.0222	0.2017	0.0486	0.0204	0.0690		538.0459	538.0459	5.8100e-003		538.1679

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					0.0198	0.0000	0.0198	2.4200e-003	0.0000	2.4200e-003			0.0000			0.0000
Off-Road	0.6148	12.0910	16.5243	0.0249		0.5599	0.5599		0.5599	0.5599	0.0000	2,511.1215	2,511.1215	0.7818		2,527.5382
Total	0.6148	12.0910	16.5243	0.0249	0.0198	0.5599	0.5797	2.4200e-003	0.5599	0.5623	0.0000	2,511.1215	2,511.1215	0.7818		2,527.5382

3.4 Grading - 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	0.1245	1.3206	1.7629	4.9200e-003	0.1187	0.0218	0.1405	0.0325	0.0200	0.0525		478.9319	478.9319	3.2200e-003		478.9994
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	0.0256	0.0232	0.3117	7.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		59.1140	59.1140	2.5900e-003		59.1685
Total	0.1502	1.3438	2.0746	5.7000e-003	0.1795	0.0222	0.2017	0.0486	0.0204	0.0690		538.0459	538.0459	5.8100e-003		538.1679

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	2.2994	21.5967	15.7616	0.0247		1.2438	1.2438		1.1645	1.1645		2,424.8911	2,424.8911	0.6377		2,438.2826
Total	2.2994	21.5967	15.7616	0.0247		1.2438	1.2438		1.1645	1.1645		2,424.8911	2,424.8911	0.6377		2,438.2826

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	0.2251	1.6671	2.8631	5.4000e-003	0.1527	0.0265	0.1792	0.0435	0.0244	0.0679		523.8511	523.8511	3.8800e-003			523.9326
Worker	0.5546	0.5023	6.7411	0.0168	1.3160	9.1600e-003	1.3252	0.3491	8.4700e-003	0.3576		1,278.3400	1,278.3400	0.0561			1,279.5178
Total	0.7797	2.1694	9.6042	0.0222	1.4687	0.0357	1.5044	0.3926	0.0328	0.4254		1,802.1911	1,802.1911	0.0600			1,803.4504

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	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,424.8911	2,424.8911	0.6377			2,438.2826
Total	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,424.8911	2,424.8911	0.6377			2,438.2826

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	0.2251	1.6671	2.8631	5.4000e-003	0.1527	0.0265	0.1792	0.0435	0.0244	0.0679		523.8511	523.8511	3.8800e-003			523.9326
Worker	0.5546	0.5023	6.7411	0.0168	1.3160	9.1600e-003	1.3252	0.3491	8.4700e-003	0.3576		1,278.3400	1,278.3400	0.0561			1,279.5178
Total	0.7797	2.1694	9.6042	0.0222	1.4687	0.0357	1.5044	0.3926	0.0328	0.4254		1,802.1911	1,802.1911	0.0600			1,803.4504

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.0292	19.2057	15.3855	0.0247		1.0677	1.0677		0.9999	0.9999		2,394.4652	2,394.4652	0.6304			2,407.7040
Total	2.0292	19.2057	15.3855	0.0247		1.0677	1.0677		0.9999	0.9999		2,394.4652	2,394.4652	0.6304			2,407.7040

3.5 Building Construction - 2019

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	0.2044	1.5178	2.6667	5.4000e-003	0.1528	0.0245	0.1773	0.0435	0.0226	0.0660		515.3659	515.3659	3.7800e-003			515.4452
Worker	0.5099	0.4596	6.2289	0.0167	1.3160	9.0400e-003	1.3251	0.3491	8.3800e-003	0.3575		1,226.5696	1,226.5696	0.0522			1,227.6653
Total	0.7143	1.9774	8.8957	0.0221	1.4688	0.0336	1.5023	0.3926	0.0309	0.4235		1,741.9355	1,741.9355	0.0560			1,743.1106

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	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,394.4652	2,394.4652	0.6304			2,407.7040
Total	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,394.4652	2,394.4652	0.6304			2,407.7040

3.5 Building Construction - 2019**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	0.2044	1.5178	2.6667	5.4000e-003	0.1528	0.0245	0.1773	0.0435	0.0226	0.0660		515.3659	515.3659	3.7800e-003		515.4452
Worker	0.5099	0.4596	6.2289	0.0167	1.3160	9.0400e-003	1.3251	0.3491	8.3800e-003	0.3575		1,226.5696	1,226.5696	0.0522		1,227.6653
Total	0.7143	1.9774	8.8957	0.0221	1.4688	0.0336	1.5023	0.3926	0.0309	0.4235		1,741.9355	1,741.9355	0.0560		1,743.1106

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	1.7159	16.3011	12.6471	0.0170		1.1696	1.1696		1.0761	1.0761		1,710.3268	1,710.3268	0.5325		1,721.5083
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7159	16.3011	12.6471	0.0170		1.1696	1.1696		1.0761	1.0761		1,710.3268	1,710.3268	0.5325		1,721.5083

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	0.0417	0.0377	0.5066	1.2600e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		96.0602	96.0602	4.2100e-003		96.1487
Total	0.0417	0.0377	0.5066	1.2600e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		96.0602	96.0602	4.2100e-003		96.1487

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	0.4183	9.5510	12.8974	0.0170		0.6693	0.6693		0.6693	0.6693	0.0000	1,710.3268	1,710.3268	0.5325		1,721.5083
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4183	9.5510	12.8974	0.0170		0.6693	0.6693		0.6693	0.6693	0.0000	1,710.3268	1,710.3268	0.5325		1,721.5083

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	0.0417	0.0377	0.5066	1.2600e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		96.0602	96.0602	4.2100e-003		96.1487
Total	0.0417	0.0377	0.5066	1.2600e-003	0.0989	6.9000e-004	0.0996	0.0262	6.4000e-004	0.0269		96.0602	96.0602	4.2100e-003		96.1487

3.7 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.5073					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648
Total	45.6849	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648

3.7 Architectural Coating - 2019

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	0.1032	0.0930	1.2602	3.3900e-003	0.2662	1.8300e-003	0.2681	0.0706	1.7000e-003	0.0723		248.1499	248.1499	0.0106			248.3716
Total	0.1032	0.0930	1.2602	3.3900e-003	0.2662	1.8300e-003	0.2681	0.0706	1.7000e-003	0.0723		248.1499	248.1499	0.0106			248.3716

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	45.5073					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0396	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0159			187.9648
Total	45.5469	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0159			187.9648

3.7 Architectural Coating - 2019

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	0.1032	0.0930	1.2602	3.3900e-003	0.2662	1.8300e-003	0.2681	0.0706	1.7000e-003	0.0723		248.1499	248.1499	0.0106		248.3716
Total	0.1032	0.0930	1.2602	3.3900e-003	0.2662	1.8300e-003	0.2681	0.0706	1.7000e-003	0.0723		248.1499	248.1499	0.0106		248.3716

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.1783	11.0268	59.1598	0.1476	9.8568	0.1687	10.0255	2.6331	0.1556	2.7887		11,598.26 14	11,598.26 14	0.4200		11,607.08 22
Unmitigated	6.1783	11.0268	59.1598	0.1476	9.8568	0.1687	10.0255	2.6331	0.1556	2.7887		11,598.26 14	11,598.26 14	0.4200		11,607.08 22

Sac Commons - Phase 3 Construction
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	211.65	1000sqft	1.83	211,650.00	0
Apartments Mid Rise	240.00	Dwelling Unit	1.79	212,750.00	480
Strip Mall	4.50	1000sqft	0.04	4,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User defined data.

Construction Phase - Schedule from PD.

Off-road Equipment - Updated LF based on new CalEEMod guidance.

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Adjust to default CalEEMod HP and LF

Off-road Equipment - Revised HP and LF based on updated CalEEMod guidance. An excavator was added to the project to handle the additional earthwork activity.

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Adjust to default CalEEMod HP

Trips and VMT - User defined values from earthworks activity and customized acreages.

Demolition -

Grading - User defined values.

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Potential mitigation measure (all Tier 3)

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	108,075.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	324,225.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	143,606.00	162,000.00
tblArchitecturalCoating	ConstArea_Residential_Interior	430,819.00	486,000.00
tblAreaCoating	Area_Nonresidential_Interior	324225	0
tblAreaCoating	Area_Residential_Exterior	143606	162000
tblAreaCoating	Area_Residential_Interior	430819	486000
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	260.00

tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	8.00	65.00
tblConstructionPhase	NumDays	18.00	65.00
tblConstructionPhase	NumDays	5.00	42.00
tblConstructionPhase	PhaseEndDate	12/31/2018	9/30/2019
tblConstructionPhase	PhaseEndDate	6/28/2019	6/30/2019
tblConstructionPhase	PhaseEndDate	6/29/2018	6/30/2018
tblConstructionPhase	PhaseEndDate	9/27/2019	9/30/2018
tblConstructionPhase	PhaseEndDate	3/30/2018	3/31/2018
tblConstructionPhase	PhaseStartDate	10/1/2018	7/1/2019
tblConstructionPhase	PhaseStartDate	7/1/2019	7/1/2018
tblGrading	AcresOfGrading	32.50	1.83
tblGrading	AcresOfGrading	0.00	1.83
tblGrading	MaterialExported	0.00	4,452.00
tblLandUse	LandUseSquareFeet	240,000.00	212,750.00
tblLandUse	LotAcreage	4.86	1.83
tblLandUse	LotAcreage	6.32	1.79
tblLandUse	LotAcreage	0.10	0.04
tblLandUse	Population	641.00	480.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	125.00	89.00
tblOffRoadEquipment	HorsePower	130.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00

tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	199.00	358.00
tblOffRoadEquipment	LoadFactor	0.48	0.32
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripNumber	557.00	445.00
tblTripsAndVMT	VendorTripNumber	61.00	26.00
tblTripsAndVMT	WorkerTripNumber	8.00	13.00
tblTripsAndVMT	WorkerTripNumber	18.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	263.00	173.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblTripsAndVMT	WorkerTripNumber	53.00	35.00

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					
2017	0.0826	0.8741	0.6859	7.0000e-004	0.0185	0.0417	0.0602	3.2200e-003	0.0387	0.0419	0.0000	63.6285	63.6285	0.0161	0.0000	63.9659
2018	0.4536	4.1956	3.6640	5.7000e-003	0.4952	0.2244	0.7197	0.2383	0.2080	0.4463	0.0000	490.6621	490.6621	0.1108	0.0000	492.9886
2019	1.6829	1.4183	1.6294	3.0800e-003	0.1000	0.0739	0.1739	0.0268	0.0694	0.0962	0.0000	247.3352	247.3352	0.0410	0.0000	248.1953
Total	2.2190	6.4881	5.9792	9.4800e-003	0.6138	0.3400	0.9538	0.2683	0.3160	0.5843	0.0000	801.6257	801.6257	0.1678	0.0000	805.1499

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					
2017	0.0172	0.3094	0.3697	7.0000e-004	0.0103	0.0127	0.0230	1.9800e-003	0.0127	0.0146	0.0000	63.6284	63.6284	0.0161	0.0000	63.9659
2018	0.1542	2.2618	3.4027	5.7000e-003	0.2809	0.1146	0.3954	0.1228	0.1143	0.2371	0.0000	490.6617	490.6617	0.1108	0.0000	492.9882
2019	1.5871	0.9749	1.7169	3.0800e-003	0.1000	0.0505	0.1505	0.0268	0.0503	0.0771	0.0000	247.3350	247.3350	0.0410	0.0000	248.1951
Total	1.7584	3.5461	5.4894	9.4800e-003	0.3912	0.1777	0.5689	0.1515	0.1773	0.3288	0.0000	801.6251	801.6251	0.1678	0.0000	805.1492

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2017	1/31/2018	5	66	
2	Site Preparation	Site Preparation	2/1/2018	3/31/2018	5	42	
3	Grading	Grading	4/1/2018	6/30/2018	5	65	
4	Building Construction	Building Construction	7/1/2018	6/30/2019	5	260	
5	Paving	Paving	7/1/2018	9/30/2018	5	65	
6	Architectural Coating	Architectural Coating	7/1/2019	9/30/2019	5	66	

Acres of Grading (Site Preparation Phase): 1.83

Acres of Grading (Grading Phase): 1.83

Acres of Paving: 0

Residential Indoor: 486,000; Residential Outdoor: 162,000; 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	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	2	8.00	358	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	75	0.37
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Loaders	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	7.00	208	0.29
Building Construction	Forklifts	3	8.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	3	7.00	75	0.37
Building Construction	Welders	1	8.00	46	0.30
Paving	Pavers	2	8.00	89	0.42
Paving	Paving Equipment	2	8.00	82	0.36
Paving	Rollers	2	8.00	84	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	3	13.00	0.00	203.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	8.00	0.00	445.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	173.00	26.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

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	tons/yr										MT/yr					
Fugitive Dust					0.0149	0.0000	0.0149	2.2600e-003	0.0000	2.2600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0802	0.8579	0.6542	6.3000e-004		0.0414	0.0414		0.0385	0.0385	0.0000	57.5963	57.5963	0.0160	0.0000	57.9313
Total	0.0802	0.8579	0.6542	6.3000e-004	0.0149	0.0414	0.0563	2.2600e-003	0.0385	0.0407	0.0000	57.5963	57.5963	0.0160	0.0000	57.9313

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	tons/yr										MT/yr					
Hauling	1.5000e-003	0.0152	0.0212	5.0000e-005	1.5600e-003	2.2000e-004	1.7800e-003	4.2000e-004	2.0000e-004	6.1000e-004	0.0000	4.2727	4.2727	3.0000e-005	0.0000	4.2733
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	8.3000e-004	1.0000e-003	0.0105	2.0000e-005	2.0500e-003	2.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.7595	1.7595	9.0000e-005	0.0000	1.7614
Total	2.3300e-003	0.0162	0.0317	7.0000e-005	3.6100e-003	2.4000e-004	3.8500e-003	9.7000e-004	2.1000e-004	1.1700e-003	0.0000	6.0322	6.0322	1.2000e-004	0.0000	6.0347

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					6.7100e-003	0.0000	6.7100e-003	1.0200e-003	0.0000	1.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0148	0.2932	0.3381	6.3000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	57.5962	57.5962	0.0160	0.0000	57.9312
Total	0.0148	0.2932	0.3381	6.3000e-004	6.7100e-003	0.0125	0.0192	1.0200e-003	0.0125	0.0135	0.0000	57.5962	57.5962	0.0160	0.0000	57.9312

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	tons/yr										MT/yr					
Hauling	1.5000e-003	0.0152	0.0212	5.0000e-005	1.5600e-003	2.2000e-004	1.7800e-003	4.2000e-004	2.0000e-004	6.1000e-004	0.0000	4.2727	4.2727	3.0000e-005	0.0000	4.2733
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	8.3000e-004	1.0000e-003	0.0105	2.0000e-005	2.0500e-003	2.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.7595	1.7595	9.0000e-005	0.0000	1.7614
Total	2.3300e-003	0.0162	0.0317	7.0000e-005	3.6100e-003	2.4000e-004	3.8500e-003	9.7000e-004	2.1000e-004	1.1700e-003	0.0000	6.0322	6.0322	1.2000e-004	0.0000	6.0347

3.2 Demolition - 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	tons/yr										MT/yr					
Fugitive Dust					7.9800e-003	0.0000	7.9800e-003	1.2100e-003	0.0000	1.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0388	0.4079	0.3182	3.4000e-004		0.0195	0.0195		0.0181	0.0181	0.0000	30.4035	30.4035	8.4900e-003	0.0000	30.5819
Total	0.0388	0.4079	0.3182	3.4000e-004	7.9800e-003	0.0195	0.0275	1.2100e-003	0.0181	0.0193	0.0000	30.4035	30.4035	8.4900e-003	0.0000	30.5819

3.2 Demolition - 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	tons/yr										MT/yr					
Hauling	6.9000e-004	7.2700e-003	0.0104	3.0000e-005	1.4300e-003	1.1000e-004	1.5500e-003	3.7000e-004	1.0000e-004	4.7000e-004	0.0000	2.2425	2.2425	2.0000e-005	0.0000	2.2428
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	4.0000e-004	4.8000e-004	5.0200e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9056	0.9056	4.0000e-005	0.0000	0.9065
Total	1.0900e-003	7.7500e-003	0.0155	4.0000e-005	2.5300e-003	1.2000e-004	2.6600e-003	6.6000e-004	1.1000e-004	7.7000e-004	0.0000	3.1480	3.1480	6.0000e-005	0.0000	3.1493

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.5900e-003	0.0000	3.5900e-003	5.4000e-004	0.0000	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9400e-003	0.1568	0.1808	3.4000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	30.4035	30.4035	8.4900e-003	0.0000	30.5818
Total	7.9400e-003	0.1568	0.1808	3.4000e-004	3.5900e-003	6.6600e-003	0.0103	5.4000e-004	6.6600e-003	7.2000e-003	0.0000	30.4035	30.4035	8.4900e-003	0.0000	30.5818

3.2 Demolition - 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	tons/yr										MT/yr					
Hauling	6.9000e-004	7.2700e-003	0.0104	3.0000e-005	1.4300e-003	1.1000e-004	1.5500e-003	3.7000e-004	1.0000e-004	4.7000e-004	0.0000	2.2425	2.2425	2.0000e-005	0.0000	2.2428
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	4.0000e-004	4.8000e-004	5.0200e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9056	0.9056	4.0000e-005	0.0000	0.9065
Total	1.0900e-003	7.7500e-003	0.0155	4.0000e-005	2.5300e-003	1.2000e-004	2.6600e-003	6.6000e-004	1.1000e-004	7.7000e-004	0.0000	3.1480	3.1480	6.0000e-005	0.0000	3.1493

3.3 Site Preparation - 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	tons/yr										MT/yr					
Fugitive Dust					0.3804	0.0000	0.3804	0.2087	0.0000	0.2087	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0851	0.9077	0.7164	7.6000e-004		0.0461	0.0461		0.0424	0.0424	0.0000	69.6504	69.6504	0.0217	0.0000	70.1057
Total	0.0851	0.9077	0.7164	7.6000e-004	0.3804	0.0461	0.4265	0.2087	0.0424	0.2511	0.0000	69.6504	69.6504	0.0217	0.0000	70.1057

3.3 Site Preparation - 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	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	4.5000e-004	5.4000e-004	5.6500e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0176	1.0176	5.0000e-005	0.0000	1.0187
Total	4.5000e-004	5.4000e-004	5.6500e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0176	1.0176	5.0000e-005	0.0000	1.0187

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1712	0.0000	0.1712	0.0939	0.0000	0.0939	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0185	0.3756	0.4468	7.6000e-004		0.0179	0.0179		0.0179	0.0179	0.0000	69.6503	69.6503	0.0217	0.0000	70.1056
Total	0.0185	0.3756	0.4468	7.6000e-004	0.1712	0.0179	0.1890	0.0939	0.0179	0.1118	0.0000	69.6503	69.6503	0.0217	0.0000	70.1056

3.3 Site Preparation - 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	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	4.5000e-004	5.4000e-004	5.6500e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0176	1.0176	5.0000e-005	0.0000	1.0187
Total	4.5000e-004	5.4000e-004	5.6500e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0176	1.0176	5.0000e-005	0.0000	1.0187

3.4 Grading - 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	tons/yr										MT/yr					
Fugitive Dust					1.4300e-003	0.0000	1.4300e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0695	0.7281	0.4640	8.1000e-004		0.0361	0.0361		0.0332	0.0332	0.0000	74.0367	74.0367	0.0231	0.0000	74.5207
Total	0.0695	0.7281	0.4640	8.1000e-004	1.4300e-003	0.0361	0.0375	1.7000e-004	0.0332	0.0334	0.0000	74.0367	74.0367	0.0231	0.0000	74.5207

3.4 Grading - 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	tons/yr										MT/yr					
Hauling	4.3200e-003	0.0458	0.0657	1.6000e-004	3.7400e-003	7.1000e-004	4.4500e-003	1.0300e-003	6.5000e-004	1.6800e-003	0.0000	14.1061	14.1061	1.0000e-004	0.0000	14.1081
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	8.4000e-004	8.7400e-003	2.0000e-005	1.9100e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5749	1.5749	8.0000e-005	0.0000	1.5765
Total	5.0100e-003	0.0466	0.0744	1.8000e-004	5.6500e-003	7.2000e-004	6.3700e-003	1.5400e-003	6.6000e-004	2.2000e-003	0.0000	15.6810	15.6810	1.8000e-004	0.0000	15.6846

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					6.4000e-004	0.0000	6.4000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.3930	0.5370	8.1000e-004		0.0182	0.0182		0.0182	0.0182	0.0000	74.0366	74.0366	0.0231	0.0000	74.5206
Total	0.0200	0.3930	0.5370	8.1000e-004	6.4000e-004	0.0182	0.0188	8.0000e-005	0.0182	0.0183	0.0000	74.0366	74.0366	0.0231	0.0000	74.5206

3.4 Grading - 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	tons/yr										MT/yr					
Hauling	4.3200e-003	0.0458	0.0657	1.6000e-004	3.7400e-003	7.1000e-004	4.4500e-003	1.0300e-003	6.5000e-004	1.6800e-003	0.0000	14.1061	14.1061	1.0000e-004	0.0000	14.1081
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	8.4000e-004	8.7400e-003	2.0000e-005	1.9100e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5749	1.5749	8.0000e-005	0.0000	1.5765
Total	5.0100e-003	0.0466	0.0744	1.8000e-004	5.6500e-003	7.2000e-004	6.3700e-003	1.5400e-003	6.6000e-004	2.2000e-003	0.0000	15.6810	15.6810	1.8000e-004	0.0000	15.6846

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	tons/yr										MT/yr					
Off-Road	0.1506	1.4146	1.0324	1.6200e-003		0.0815	0.0815		0.0763	0.0763	0.0000	144.0885	144.0885	0.0379	0.0000	144.8842
Total	0.1506	1.4146	1.0324	1.6200e-003		0.0815	0.0815		0.0763	0.0763	0.0000	144.0885	144.0885	0.0379	0.0000	144.8842

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	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	0.0162	0.1150	0.2314	3.5000e-004	9.7100e-003	1.7500e-003	0.0115	2.7800e-003	1.6100e-003	4.3800e-003	0.0000	31.0127	31.0127	2.3000e-004	0.0000	31.0176
Worker	0.0301	0.0364	0.3808	9.9000e-004	0.0832	6.0000e-004	0.0838	0.0221	5.6000e-004	0.0227	0.0000	68.6381	68.6381	3.3300e-003	0.0000	68.7081
Total	0.0462	0.1514	0.6123	1.3400e-003	0.0929	2.3500e-003	0.0953	0.0249	2.1700e-003	0.0271	0.0000	99.6508	99.6508	3.5600e-003	0.0000	99.7257

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	0.0403	0.8184	1.0969	1.6200e-003		0.0469	0.0469		0.0469	0.0469	0.0000	144.0883	144.0883	0.0379	0.0000	144.8840
Total	0.0403	0.8184	1.0969	1.6200e-003		0.0469	0.0469		0.0469	0.0469	0.0000	144.0883	144.0883	0.0379	0.0000	144.8840

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	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	0.0162	0.1150	0.2314	3.5000e-004	9.7100e-003	1.7500e-003	0.0115	2.7800e-003	1.6100e-003	4.3800e-003	0.0000	31.0127	31.0127	2.3000e-004	0.0000	31.0176
Worker	0.0301	0.0364	0.3808	9.9000e-004	0.0832	6.0000e-004	0.0838	0.0221	5.6000e-004	0.0227	0.0000	68.6381	68.6381	3.3300e-003	0.0000	68.7081
Total	0.0462	0.1514	0.6123	1.3400e-003	0.0929	2.3500e-003	0.0953	0.0249	2.1700e-003	0.0271	0.0000	99.6508	99.6508	3.5600e-003	0.0000	99.7257

3.5 Building Construction - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	1.2388	0.9924	1.5900e-003		0.0689	0.0689		0.0645	0.0645	0.0000	140.1083	140.1083	0.0369	0.0000	140.8830
Total	0.1309	1.2388	0.9924	1.5900e-003		0.0689	0.0689		0.0645	0.0645	0.0000	140.1083	140.1083	0.0369	0.0000	140.8830

3.5 Building Construction - 2019

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	0.0144	0.1030	0.2154	3.5000e-004	9.5700e-003	1.5900e-003	0.0112	2.7400e-003	1.4600e-003	4.2000e-003	0.0000	30.0444	30.0444	2.2000e-004	0.0000	30.0491
Worker	0.0272	0.0328	0.3453	9.7000e-004	0.0820	5.8000e-004	0.0825	0.0218	5.4000e-004	0.0223	0.0000	64.8525	64.8525	3.0500e-003	0.0000	64.9166
Total	0.0416	0.1358	0.5607	1.3200e-003	0.0915	2.1700e-003	0.0937	0.0245	2.0000e-003	0.0265	0.0000	94.8969	94.8969	3.2700e-003	0.0000	94.9658

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	0.0396	0.8059	1.0802	1.5900e-003		0.0462	0.0462		0.0462	0.0462	0.0000	140.1082	140.1082	0.0369	0.0000	140.8828
Total	0.0396	0.8059	1.0802	1.5900e-003		0.0462	0.0462		0.0462	0.0462	0.0000	140.1082	140.1082	0.0369	0.0000	140.8828

3.5 Building Construction - 2019**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	0.0144	0.1030	0.2154	3.5000e-004	9.5700e-003	1.5900e-003	0.0112	2.7400e-003	1.4600e-003	4.2000e-003	0.0000	30.0444	30.0444	2.2000e-004	0.0000	30.0491
Worker	0.0272	0.0328	0.3453	9.7000e-004	0.0820	5.8000e-004	0.0825	0.0218	5.4000e-004	0.0223	0.0000	64.8525	64.8525	3.0500e-003	0.0000	64.9166
Total	0.0416	0.1358	0.5607	1.3200e-003	0.0915	2.1700e-003	0.0937	0.0245	2.0000e-003	0.0265	0.0000	94.8969	94.8969	3.2700e-003	0.0000	94.9658

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	tons/yr										MT/yr					
Off-Road	0.0558	0.5298	0.4110	5.5000e-004		0.0380	0.0380		0.0350	0.0350	0.0000	50.4264	50.4264	0.0157	0.0000	50.7561
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0558	0.5298	0.4110	5.5000e-004		0.0380	0.0380		0.0350	0.0350	0.0000	50.4264	50.4264	0.0157	0.0000	50.7561

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1200e-003	1.3600e-003	0.0142	4.0000e-005	3.1000e-003	2.0000e-005	3.1300e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.5592	2.5592	1.2000e-004	0.0000	2.5618
Total	1.1200e-003	1.3600e-003	0.0142	4.0000e-005	3.1000e-003	2.0000e-005	3.1300e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.5592	2.5592	1.2000e-004	0.0000	2.5618

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	0.0136	0.3104	0.4192	5.5000e-004		0.0218	0.0218		0.0218	0.0218	0.0000	50.4264	50.4264	0.0157	0.0000	50.7560
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0136	0.3104	0.4192	5.5000e-004		0.0218	0.0218		0.0218	0.0218	0.0000	50.4264	50.4264	0.0157	0.0000	50.7560

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1200e-003	1.3600e-003	0.0142	4.0000e-005	3.1000e-003	2.0000e-005	3.1300e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.5592	2.5592	1.2000e-004	0.0000	2.5618
Total	1.1200e-003	1.3600e-003	0.0142	4.0000e-005	3.1000e-003	2.0000e-005	3.1300e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.5592	2.5592	1.2000e-004	0.0000	2.5618

3.7 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5017					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8600e-003	0.0404	0.0405	7.0000e-005		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	5.6172	5.6172	4.7000e-004	0.0000	5.6271
Total	1.5076	0.0404	0.0405	7.0000e-005		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	5.6172	5.6172	4.7000e-004	0.0000	5.6271

3.7 Architectural Coating - 2019

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	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	0.0000
Worker	2.8100e-003	3.3900e-003	0.0357	1.0000e-004	8.4800e-003	6.0000e-005	8.5400e-003	2.2600e-003	6.0000e-005	2.3100e-003	0.0000	6.7128	6.7128	3.2000e-004	0.0000	6.7194	6.7194
Total	2.8100e-003	3.3900e-003	0.0357	1.0000e-004	8.4800e-003	6.0000e-005	8.5400e-003	2.2600e-003	6.0000e-005	2.3100e-003	0.0000	6.7128	6.7128	3.2000e-004	0.0000	6.7194	6.7194

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					
Archit. Coating	1.5017					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0299	0.0403	7.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	5.6172	5.6172	4.7000e-004	0.0000	5.6271
Total	1.5031	0.0299	0.0403	7.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	5.6172	5.6172	4.7000e-004	0.0000	5.6271

3.7 Architectural Coating - 2019

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	2.8100e-003	3.3900e-003	0.0357	1.0000e-004	8.4800e-003	6.0000e-005	8.5400e-003	2.2600e-003	6.0000e-005	2.3100e-003	0.0000	6.7128	6.7128	3.2000e-004	0.0000	6.7194
Total	2.8100e-003	3.3900e-003	0.0357	1.0000e-004	8.4800e-003	6.0000e-005	8.5400e-003	2.2600e-003	6.0000e-005	2.3100e-003	0.0000	6.7128	6.7128	3.2000e-004	0.0000	6.7194

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9110	1.9903	9.4053	0.0228	1.5961	0.0283	1.6244	0.4276	0.0261	0.4537	0.0000	1,632.3896	1,632.3896	0.0638	0.0000	1,633.7299
Unmitigated	0.9110	1.9903	9.4053	0.0228	1.5961	0.0283	1.6244	0.4276	0.0261	0.4537	0.0000	1,632.3896	1,632.3896	0.0638	0.0000	1,633.7299

Phase 4 Construction Emissions

CalEEMod Outputs (Winter, Summer, Annual)

Sac Commons - Phase 4 Construction
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	260.00	1000sqft	3.22	260,000.00	0
Apartments High Rise	562.00	Dwelling Unit	3.07	507,480.00	1124
Strip Mall	24.00	1000sqft	0.15	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage from PD.

Construction Phase - Schedule from PD

Off-road Equipment -

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Adjust to default CalEEMod HP and LF

Off-road Equipment - CalEEMod Appendix E for small acreage projects. Technical Source Documentation. An excavator was added to the project to handle the additional earthwork activity. Adjust to default CalEEMod HP.

Off-road Equipment - Adjust to default CalEEMod HP.

Off-road Equipment - Adjust to default CalEEMod HP

Trips and VMT - Hauling trips based on material generated from earthwork activities.

Demolition - 72 du x 885 sf/du x 1.2

Grading - Data Assumptions derived from SMAQMD RoadMod spreadsheet.

Construction Off-road Equipment Mitigation - Potential mitigation measure (all Tier 3)

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	10.00	42.00

tblConstructionPhase	PhaseEndDate	12/3/2018	9/30/2019
tblConstructionPhase	PhaseEndDate	6/28/2019	6/30/2019
tblConstructionPhase	PhaseEndDate	6/29/2018	6/30/2018
tblConstructionPhase	PhaseEndDate	8/30/2019	8/31/2018
tblConstructionPhase	PhaseEndDate	3/30/2018	3/31/2018
tblConstructionPhase	PhaseStartDate	9/1/2018	7/1/2019
tblConstructionPhase	PhaseStartDate	7/1/2019	7/1/2018
tblGrading	AcresOfGrading	195.00	3.22
tblGrading	AcresOfGrading	0.00	3.22
tblGrading	MaterialExported	0.00	21,722.00
tblLandUse	LandUseSquareFeet	562,000.00	507,480.00
tblLandUse	LotAcreage	5.97	3.22
tblLandUse	LotAcreage	9.06	3.07
tblLandUse	LotAcreage	0.55	0.15
tblLandUse	Population	1,501.00	1,124.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	358.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
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tblOffRoadEquipment	HorsePower	97.00	75.00

tblOffRoadEquipment	HorsePower	199.00	358.00
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.40	0.37
tblOffRoadEquipment	LoadFactor	0.40	0.41
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripNumber	2,715.00	2,172.00
tblTripsAndVMT	WorkerTripNumber	30.00	15.00

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					
2017	2.0859	23.1544	14.1924	0.0461	1.4318	0.8382	2.2700	0.2445	0.7876	1.0320	0.0000	4,638.183 0	4,638.183 0	1.1962	0.0000	4,663.302 9
2018	6.7122	47.4235	66.0053	0.1101	18.2845	2.5624	18.8616	9.9758	2.3784	10.5068	0.0000	9,789.400 9	9,789.400 9	1.3643	0.0000	9,818.051 2
2019	156.5863	27.6046	49.8899	0.0911	4.5995	1.1974	5.7970	1.2323	1.1193	2.3516	0.0000	7,745.339 7	7,745.339 7	0.8040	0.0000	7,762.222 8
Total	165.3843	98.1825	130.0877	0.2473	24.3158	4.5980	26.9286	11.4525	4.2853	13.8904	0.0000	22,172.92 36	22,172.92 36	3.3644	0.0000	22,243.57 69

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					
2017	1.1753	20.7942	24.8847	0.0461	0.7778	0.8192	1.5971	0.1454	0.8178	0.9632	0.0000	4,638.183 0	4,638.183 0	1.1962	0.0000	4,663.302 9
2018	3.7298	31.3214	67.2405	0.1101	8.3033	1.5338	8.6802	4.5091	1.5227	4.8858	0.0000	9,789.400 9	9,789.400 9	1.3643	0.0000	9,818.051 2
2019	156.3792	20.8933	51.2510	0.0911	4.5995	0.8452	5.4448	1.2323	0.8350	2.0673	0.0000	7,745.339 7	7,745.339 7	0.8040	0.0000	7,762.222 7
Total	161.2844	73.0089	143.3762	0.2473	13.6807	3.1982	15.7220	5.8868	3.1755	7.9164	0.0000	22,172.92 36	22,172.92 36	3.3644	0.0000	22,243.57 69

	ROG	NOx	CO	SO2	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	2.48	25.64	-10.22	0.00	43.74	30.44	41.62	48.60	25.90	43.01	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	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	11/1/2017	1/31/2018	5	66	
2	Site Preparation	Site Preparation	2/1/2018	3/31/2018	5	42	
3	Grading	Grading	4/1/2018	6/30/2018	5	65	
4	Building Construction	Building Construction	7/1/2018	6/30/2019	5	260	
5	Paving	Paving	7/1/2018	8/31/2018	5	45	
6	Architectural Coating	Architectural Coating	7/1/2019	9/30/2019	5	66	

Acres of Grading (Site Preparation Phase): 3.22

Acres of Grading (Grading Phase): 3.22

Acres of Paving: 0

Residential Indoor: 1,027,647; Residential Outdoor: 342,549; Non-Residential Indoor: 426,000; Non-Residential Outdoor: 142,000
(Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Excavators	3	8.00	358	0.40
Demolition	Rubber Tired Dozers	2	8.00	75	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	75	0.41
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	75	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.38
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Loaders	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	7.00	208	0.29
Building Construction	Forklifts	3	8.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	3	7.00	75	0.37
Building Construction	Welders	1	8.00	46	0.30
Paving	Pavers	2	8.00	89	0.42
Paving	Paving Equipment	2	8.00	82	0.36
Paving	Rollers	2	8.00	84	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	6	15.00	0.00	348.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	15.00	0.00	2,172.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	522.00	107.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	104.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

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					
Fugitive Dust					1.1890	0.0000	1.1890	0.1800	0.0000	0.1800			0.0000			0.0000
Off-Road	1.9038	21.8565	11.5975	0.0410		0.8201	0.8201		0.7710	0.7710		4,162.0676	4,162.0676	1.1884		4,187.0231
Total	1.9038	21.8565	11.5975	0.0410	1.1890	0.8201	2.0091	0.1800	0.7710	0.9510		4,162.0676	4,162.0676	1.1884		4,187.0231

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	0.1358	1.2380	2.0145	3.8000e-003	0.1287	0.0173	0.1460	0.0342	0.0159	0.0500		375.0007	375.0007	2.5400e-003			375.0541
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	0.0463	0.0599	0.5804	1.2800e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		101.1147	101.1147	5.2800e-003			101.2257
Total	0.1821	1.2979	2.5949	5.0800e-003	0.2428	0.0181	0.2609	0.0644	0.0166	0.0810		476.1154	476.1154	7.8200e-003			476.2798

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					0.5350	0.0000	0.5350	0.0810	0.0000	0.0810			0.0000			0.0000	
Off-Road	0.9932	19.4963	22.2899	0.0410		0.8012	0.8012		0.8012	0.8012	0.0000	4,162.0675	4,162.0675	1.1884			4,187.0231
Total	0.9932	19.4963	22.2899	0.0410	0.5350	0.8012	1.3362	0.0810	0.8012	0.8822	0.0000	4,162.0675	4,162.0675	1.1884			4,187.0231

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	0.1358	1.2380	2.0145	3.8000e-003	0.1287	0.0173	0.1460	0.0342	0.0159	0.0500		375.0007	375.0007	2.5400e-003		375.0541
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	0.0463	0.0599	0.5804	1.2800e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		101.1147	101.1147	5.2800e-003		101.2257
Total	0.1821	1.2979	2.5949	5.0800e-003	0.2428	0.0181	0.2609	0.0644	0.0166	0.0810		476.1154	476.1154	7.8200e-003		476.2798

3.2 Demolition - 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					
Fugitive Dust					1.1890	0.0000	1.1890	0.1800	0.0000	0.1800			0.0000			0.0000
Off-Road	1.6717	18.1638	11.1337	0.0411		0.6824	0.6824		0.6422	0.6422		4,103.6708	4,103.6708	1.1845		4,128.5450
Total	1.6717	18.1638	11.1337	0.0411	1.1890	0.6824	1.8714	0.1800	0.6422	0.8222		4,103.6708	4,103.6708	1.1845		4,128.5450

3.2 Demolition - 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	0.1144	1.1091	1.8773	3.7900e-003	0.2217	0.0168	0.2386	0.0570	0.0155	0.0725		367.9591	367.9591	2.5200e-003		368.0120
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	0.0411	0.0539	0.5193	1.2800e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		97.2902	97.2902	4.8600e-003		97.3923
Total	0.1555	1.1630	2.3966	5.0700e-003	0.3358	0.0176	0.3535	0.0873	0.0162	0.1035		465.2493	465.2493	7.3800e-003		465.4043

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					0.5350	0.0000	0.5350	0.0810	0.0000	0.0810			0.0000			0.0000
Off-Road	0.9932	19.4963	22.2899	0.0411		0.8012	0.8012		0.8012	0.8012	0.0000	4,103.6708	4,103.6708	1.1845		4,128.5450
Total	0.9932	19.4963	22.2899	0.0411	0.5350	0.8012	1.3362	0.0810	0.8012	0.8822	0.0000	4,103.6708	4,103.6708	1.1845		4,128.5450

3.2 Demolition - 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	0.1144	1.1091	1.8773	3.7900e-003	0.2217	0.0168	0.2386	0.0570	0.0155	0.0725		367.9591	367.9591	2.5200e-003		368.0120
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	0.0411	0.0539	0.5193	1.2800e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		97.2902	97.2902	4.8600e-003		97.3923
Total	0.1555	1.1630	2.3966	5.0700e-003	0.3358	0.0176	0.3535	0.0873	0.0162	0.1035		465.2493	465.2493	7.3800e-003		465.4043

3.3 Site Preparation - 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					
Fugitive Dust					18.1476	0.0000	18.1476	9.9395	0.0000	9.9395			0.0000			0.0000
Off-Road	0.8230	8.1332	7.2270	9.6100e-003		0.5762	0.5762		0.5301	0.5301		967.3483	967.3483	0.3012		973.6724
Total	0.8230	8.1332	7.2270	9.6100e-003	18.1476	0.5762	18.7238	9.9395	0.5301	10.4696		967.3483	967.3483	0.3012		973.6724

3.3 Site Preparation - 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	0.0494	0.0647	0.6232	1.5300e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		116.7482	116.7482	5.8400e-003		116.8708
Total	0.0494	0.0647	0.6232	1.5300e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		116.7482	116.7482	5.8400e-003		116.8708

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					8.1664	0.0000	8.1664	4.4728	0.0000	4.4728			0.0000			0.0000
Off-Road	0.2349	5.3641	7.2435	9.6100e-003		0.3759	0.3759		0.3759	0.3759	0.0000	967.3483	967.3483	0.3012		973.6724
Total	0.2349	5.3641	7.2435	9.6100e-003	8.1664	0.3759	8.5423	4.4728	0.3759	4.8486	0.0000	967.3483	967.3483	0.3012		973.6724

3.3 Site Preparation - 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	0.0494	0.0647	0.6232	1.5300e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		116.7482	116.7482	5.8400e-003		116.8708
Total	0.0494	0.0647	0.6232	1.5300e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		116.7482	116.7482	5.8400e-003		116.8708

3.4 Grading - 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					
Fugitive Dust					0.1217	0.0000	0.1217	0.0161	0.0000	0.0161			0.0000			0.0000
Off-Road	2.1379	22.4018	14.2774	0.0249		1.1107	1.1107		1.0219	1.0219		2,511.1215	2,511.1215	0.7818		2,527.5382
Total	2.1379	22.4018	14.2774	0.0249	0.1217	1.1107	1.2324	0.0161	1.0219	1.0380		2,511.1215	2,511.1215	0.7818		2,527.5382

3.4 Grading - 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	0.7250	7.0288	11.8974	0.0240	0.5792	0.1067	0.6859	0.1585	0.0981	0.2566		2,331.904 3	2,331.904 3	0.0160		2,332.239 2
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	0.0411	0.0539	0.5193	1.2800e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		97.2902	97.2902	4.8600e-003		97.3923
Total	0.7661	7.0828	12.4167	0.0253	0.6933	0.1075	0.8008	0.1887	0.0988	0.2876		2,429.194 5	2,429.194 5	0.0208		2,429.631 6

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					0.0547	0.0000	0.0547	7.2600e-003	0.0000	7.2600e-003			0.0000			0.0000
Off-Road	0.6148	12.0910	16.5243	0.0249		0.5599	0.5599		0.5599	0.5599	0.0000	2,511.121 5	2,511.121 5	0.7818		2,527.538 2
Total	0.6148	12.0910	16.5243	0.0249	0.0547	0.5599	0.6146	7.2600e-003	0.5599	0.5672	0.0000	2,511.121 5	2,511.121 5	0.7818		2,527.538 2

3.4 Grading - 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	0.7250	7.0288	11.8974	0.0240	0.5792	0.1067	0.6859	0.1585	0.0981	0.2566		2,331.904 3	2,331.904 3	0.0160		2,332.239 2
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	0.0411	0.0539	0.5193	1.2800e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		97.2902	97.2902	4.8600e-003		97.3923
Total	0.7661	7.0828	12.4167	0.0253	0.6933	0.1075	0.8008	0.1887	0.0988	0.2876		2,429.194 5	2,429.194 5	0.0208		2,429.631 6

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	2.2994	21.5967	15.7616	0.0247		1.2438	1.2438		1.1645	1.1645		2,424.891 1	2,424.891 1	0.6377		2,438.282 6
Total	2.2994	21.5967	15.7616	0.0247		1.2438	1.2438		1.1645	1.1645		2,424.891 1	2,424.891 1	0.6377		2,438.282 6

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	1.1843	7.3453	18.7967	0.0222	0.6285	0.1107	0.7392	0.1789	0.1017	0.2807		2,136.915 4	2,136.915 4	0.0165			2,137.262 2
Worker	1.4317	1.8767	18.0714	0.0445	3.9709	0.0276	3.9985	1.0533	0.0256	1.0789		3,385.698 4	3,385.698 4	0.1692			3,389.252 3
Total	2.6160	9.2220	36.8681	0.0667	4.5994	0.1383	4.7377	1.2322	0.1273	1.3596		5,522.613 8	5,522.613 8	0.1857			5,526.514 4

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	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,424.891 1	2,424.891 1	0.6377			2,438.282 6
Total	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,424.891 1	2,424.891 1	0.6377			2,438.282 6

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	1.1843	7.3453	18.7967	0.0222	0.6285	0.1107	0.7392	0.1789	0.1017	0.2807		2,136.915 4	2,136.915 4	0.0165			2,137.262 2
Worker	1.4317	1.8767	18.0714	0.0445	3.9709	0.0276	3.9985	1.0533	0.0256	1.0789		3,385.698 4	3,385.698 4	0.1692			3,389.252 3
Total	2.6160	9.2220	36.8681	0.0667	4.5994	0.1383	4.7377	1.2322	0.1273	1.3596		5,522.613 8	5,522.613 8	0.1857			5,526.514 4

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.0292	19.2057	15.3855	0.0247		1.0677	1.0677		0.9999	0.9999		2,394.465 2	2,394.465 2	0.6304			2,407.704 0
Total	2.0292	19.2057	15.3855	0.0247		1.0677	1.0677		0.9999	0.9999		2,394.465 2	2,394.465 2	0.6304			2,407.704 0

3.5 Building Construction - 2019

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	1.0635	6.6828	17.9217	0.0221	0.6287	0.1024	0.7311	0.1790	0.0941	0.2731		2,102.275 3	2,102.275 3	0.0161			2,102.613 4
Worker	1.3102	1.7161	16.5828	0.0443	3.9709	0.0273	3.9981	1.0533	0.0253	1.0786		3,248.599 3	3,248.599 3	0.1574			3,251.905 3
Total	2.3737	8.3989	34.5045	0.0664	4.5995	0.1297	4.7292	1.2323	0.1194	1.3517		5,350.874 5	5,350.874 5	0.1735			5,354.518 7

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	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,394.465 2	2,394.465 2	0.6304			2,407.704 0
Total	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,394.465 2	2,394.465 2	0.6304			2,407.704 0

3.5 Building Construction - 2019

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	1.0635	6.6828	17.9217	0.0221	0.6287	0.1024	0.7311	0.1790	0.0941	0.2731		2,102.275 3	2,102.275 3	0.0161			2,102.613 4
Worker	1.3102	1.7161	16.5828	0.0443	3.9709	0.0273	3.9981	1.0533	0.0253	1.0786		3,248.599 3	3,248.599 3	0.1574			3,251.905 3
Total	2.3737	8.3989	34.5045	0.0664	4.5995	0.1297	4.7292	1.2323	0.1194	1.3517		5,350.874 5	5,350.874 5	0.1735			5,354.518 7

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	1.7557	16.5509	12.8563	0.0175		1.1795	1.1795		1.0859	1.0859		1,744.605 8	1,744.605 8	0.5360			1,755.861 9
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7557	16.5509	12.8563	0.0175		1.1795	1.1795		1.0859	1.0859		1,744.605 8	1,744.605 8	0.5360			1,755.861 9

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	0.0411	0.0539	0.5193	1.2800e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		97.2902	97.2902	4.8600e-003			97.3923
Total	0.0411	0.0539	0.5193	1.2800e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		97.2902	97.2902	4.8600e-003			97.3923

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	0.4582	9.5510	13.1066	0.0175		0.6791	0.6791		0.6791	0.6791	0.0000	1,744.6058	1,744.6058	0.5360			1,755.8619
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.4582	9.5510	13.1066	0.0175		0.6791	0.6791		0.6791	0.6791	0.0000	1,744.6058	1,744.6058	0.5360			1,755.8619

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	0.0411	0.0539	0.5193	1.2800e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		97.2902	97.2902	4.8600e-003			97.3923
Total	0.0411	0.0539	0.5193	1.2800e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		97.2902	97.2902	4.8600e-003			97.3923

3.7 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	156.0588					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238			281.9473
Total	156.3252	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238			281.9473

3.7 Architectural Coating - 2019

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	0.2610	0.3419	3.3039	8.8200e-003	0.7911	5.4400e-003	0.7966	0.2099	5.0400e-003	0.2149		647.2305	647.2305	0.0314			647.8892
Total	0.2610	0.3419	3.3039	8.8200e-003	0.7911	5.4400e-003	0.7966	0.2099	5.0400e-003	0.2149		647.2305	647.2305	0.0314			647.8892

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	156.0588					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238			281.9473
Total	156.1182	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238			281.9473

3.7 Architectural Coating - 2019

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	0.2610	0.3419	3.3039	8.8200e-003	0.7911	5.4400e-003	0.7966	0.2099	5.0400e-003	0.2149		647.2305	647.2305	0.0314			647.8892
Total	0.2610	0.3419	3.3039	8.8200e-003	0.7911	5.4400e-003	0.7966	0.2099	5.0400e-003	0.2149		647.2305	647.2305	0.0314			647.8892

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.8878	31.7294	158.5945	0.3335	24.6350	0.4270	25.0620	6.5809	0.3937	6.9746		26,329.6196	26,329.6196	1.0582		26,351.8428
Unmitigated	14.8878	31.7294	158.5945	0.3335	24.6350	0.4270	25.0620	6.5809	0.3937	6.9746		26,329.6196	26,329.6196	1.0582		26,351.8428

Sac Commons - Phase 4 Construction
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	260.00	1000sqft	3.22	260,000.00	0
Apartments High Rise	562.00	Dwelling Unit	3.07	507,480.00	1124
Strip Mall	24.00	1000sqft	0.15	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage from PD.

Construction Phase - Schedule from PD

Off-road Equipment -

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Adjust to default CalEEMod HP and LF

Off-road Equipment - CalEEMod Appendix E for small acreage projects. Technical Source Documentation. An excavator was added to the project to handle the additional earthwork activity. Adjust to default CalEEMod HP.

Off-road Equipment - Adjust to default CalEEMod HP.

Off-road Equipment - Adjust to default CalEEMod HP

Trips and VMT - Hauling trips based on material generated from earthwork activities.

Demolition - 72 du x 885 sf/du x 1.2

Grading - Data Assumptions derived from SMAQMD RoadMod spreadsheet.

Construction Off-road Equipment Mitigation - Potential mitigation measure (all Tier 3)

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	10.00	42.00

tblConstructionPhase	PhaseEndDate	12/3/2018	9/30/2019
tblConstructionPhase	PhaseEndDate	6/28/2019	6/30/2019
tblConstructionPhase	PhaseEndDate	6/29/2018	6/30/2018
tblConstructionPhase	PhaseEndDate	8/30/2019	8/31/2018
tblConstructionPhase	PhaseEndDate	3/30/2018	3/31/2018
tblConstructionPhase	PhaseStartDate	9/1/2018	7/1/2019
tblConstructionPhase	PhaseStartDate	7/1/2019	7/1/2018
tblGrading	AcresOfGrading	195.00	3.22
tblGrading	AcresOfGrading	0.00	3.22
tblGrading	MaterialExported	0.00	21,722.00
tblLandUse	LandUseSquareFeet	562,000.00	507,480.00
tblLandUse	LotAcreage	5.97	3.22
tblLandUse	LotAcreage	9.06	3.07
tblLandUse	LotAcreage	0.55	0.15
tblLandUse	Population	1,501.00	1,124.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	358.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	125.00	89.00
tblOffRoadEquipment	HorsePower	130.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	255.00	75.00
tblOffRoadEquipment	HorsePower	255.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00

tblOffRoadEquipment	HorsePower	199.00	358.00
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.40	0.37
tblOffRoadEquipment	LoadFactor	0.40	0.41
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripNumber	2,715.00	2,172.00
tblTripsAndVMT	WorkerTripNumber	30.00	15.00

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					
2017	2.0681	23.0409	13.7550	0.0463	1.4318	0.8381	2.2699	0.2445	0.7875	1.0320	0.0000	4,653.1695	4,653.1695	1.1962	0.0000	4,678.2886
2018	6.7030	46.5673	61.3255	0.1166	18.2845	2.5608	18.8616	9.9758	2.3770	10.5068	0.0000	10,293.3723	10,293.3723	1.3638	0.0000	10,322.0112
2019	156.6317	26.8388	45.1549	0.0974	4.5995	1.1960	5.7955	1.2323	1.1179	2.3502	0.0000	8,216.3729	8,216.3729	0.8034	0.0000	8,233.2444
Total	165.4029	96.4471	120.2354	0.2603	24.3158	4.5949	26.9270	11.4525	4.2824	13.8890	0.0000	23,162.9147	23,162.9147	3.3633	0.0000	23,233.5443

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					
2017	1.1575	20.6807	24.4474	0.0463	0.7778	0.8192	1.5970	0.1454	0.8177	0.9632	0.0000	4,653.1695	4,653.1695	1.1962	0.0000	4,678.2886
2018	3.7206	30.4652	62.5607	0.1166	8.3033	1.5322	8.6802	4.5091	1.5212	4.8858	0.0000	10,293.3723	10,293.3723	1.3638	0.0000	10,322.0112
2019	156.4247	20.1275	46.5160	0.0974	4.5995	0.8438	5.4433	1.2323	0.8337	2.0660	0.0000	8,216.3729	8,216.3729	0.8034	0.0000	8,233.2444
Total	161.3029	71.2734	133.5240	0.2603	13.6807	3.1952	15.7205	5.8868	3.1726	7.9150	0.0000	23,162.9147	23,162.9147	3.3633	0.0000	23,233.5442

	ROG	NOx	CO	SO2	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	2.48	26.10	-11.05	0.00	43.74	30.46	41.62	48.60	25.92	43.01	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	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	11/1/2017	1/31/2018	5	66	
2	Site Preparation	Site Preparation	2/1/2018	3/31/2018	5	42	
3	Grading	Grading	4/1/2018	6/30/2018	5	65	
4	Building Construction	Building Construction	7/1/2018	6/30/2019	5	260	
5	Paving	Paving	7/1/2018	8/31/2018	5	45	
6	Architectural Coating	Architectural Coating	7/1/2019	9/30/2019	5	66	

Acres of Grading (Site Preparation Phase): 3.22

Acres of Grading (Grading Phase): 3.22

Acres of Paving: 0

Residential Indoor: 1,027,647; Residential Outdoor: 342,549; Non-Residential Indoor: 426,000; Non-Residential Outdoor: 142,000
(Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Excavators	3	8.00	358	0.40
Demolition	Rubber Tired Dozers	2	8.00	75	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	75	0.41
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	75	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.38
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Loaders	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	7.00	208	0.29
Building Construction	Forklifts	3	8.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	3	7.00	75	0.37
Building Construction	Welders	1	8.00	46	0.30
Paving	Pavers	2	8.00	89	0.42
Paving	Paving Equipment	2	8.00	82	0.36
Paving	Rollers	2	8.00	84	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	6	15.00	0.00	348.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	15.00	0.00	2,172.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	522.00	107.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	104.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

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					
Fugitive Dust					1.1890	0.0000	1.1890	0.1800	0.0000	0.1800			0.0000			0.0000
Off-Road	1.9038	21.8565	11.5975	0.0410		0.8201	0.8201		0.7710	0.7710		4,162.0676	4,162.0676	1.1884		4,187.0231
Total	1.9038	21.8565	11.5975	0.0410	1.1890	0.8201	2.0091	0.1800	0.7710	0.9510		4,162.0676	4,162.0676	1.1884		4,187.0231

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	0.1107	1.1361	1.5095	3.8000e-003	0.1287	0.0172	0.1459	0.0342	0.0158	0.0500		375.9171	375.9171	2.5000e-003		375.9697
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	0.0536	0.0483	0.6480	1.4600e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		115.1849	115.1849	5.2800e-003		115.2959
Total	0.1643	1.1844	2.1575	5.2600e-003	0.2428	0.0180	0.2608	0.0644	0.0166	0.0810		491.1019	491.1019	7.7800e-003		491.2655

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					0.5350	0.0000	0.5350	0.0810	0.0000	0.0810			0.0000			0.0000
Off-Road	0.9932	19.4963	22.2899	0.0410		0.8012	0.8012		0.8012	0.8012	0.0000	4,162.0675	4,162.0675	1.1884		4,187.0231
Total	0.9932	19.4963	22.2899	0.0410	0.5350	0.8012	1.3362	0.0810	0.8012	0.8822	0.0000	4,162.0675	4,162.0675	1.1884		4,187.0231

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	0.1107	1.1361	1.5095	3.8000e-003	0.1287	0.0172	0.1459	0.0342	0.0158	0.0500		375.9171	375.9171	2.5000e-003		375.9697
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	0.0536	0.0483	0.6480	1.4600e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		115.1849	115.1849	5.2800e-003		115.2959
Total	0.1643	1.1844	2.1575	5.2600e-003	0.2428	0.0180	0.2608	0.0644	0.0166	0.0810		491.1019	491.1019	7.7800e-003		491.2655

3.2 Demolition - 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					
Fugitive Dust					1.1890	0.0000	1.1890	0.1800	0.0000	0.1800			0.0000			0.0000
Off-Road	1.6717	18.1638	11.1337	0.0411		0.6824	0.6824		0.6422	0.6422		4,103.6708	4,103.6708	1.1845		4,128.5450
Total	1.6717	18.1638	11.1337	0.0411	1.1890	0.6824	1.8714	0.1800	0.6422	0.8222		4,103.6708	4,103.6708	1.1845		4,128.5450

3.2 Demolition - 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	0.0959	1.0171	1.3577	3.7900e-003	0.2217	0.0168	0.2385	0.0570	0.0154	0.0724		368.8607	368.8607	2.4800e-003		368.9127
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	0.0481	0.0436	0.5845	1.4600e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		110.8387	110.8387	4.8600e-003		110.9409
Total	0.1440	1.0606	1.9422	5.2500e-003	0.3358	0.0176	0.3534	0.0873	0.0162	0.1034		479.6995	479.6995	7.3400e-003		479.8536

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					0.5350	0.0000	0.5350	0.0810	0.0000	0.0810			0.0000			0.0000
Off-Road	0.9932	19.4963	22.2899	0.0411		0.8012	0.8012		0.8012	0.8012	0.0000	4,103.6708	4,103.6708	1.1845		4,128.5450
Total	0.9932	19.4963	22.2899	0.0411	0.5350	0.8012	1.3362	0.0810	0.8012	0.8822	0.0000	4,103.6708	4,103.6708	1.1845		4,128.5450

3.2 Demolition - 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	0.0959	1.0171	1.3577	3.7900e-003	0.2217	0.0168	0.2385	0.0570	0.0154	0.0724		368.8607	368.8607	2.4800e-003		368.9127
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	0.0481	0.0436	0.5845	1.4600e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		110.8387	110.8387	4.8600e-003		110.9409
Total	0.1440	1.0606	1.9422	5.2500e-003	0.3358	0.0176	0.3534	0.0873	0.0162	0.1034		479.6995	479.6995	7.3400e-003		479.8536

3.3 Site Preparation - 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					
Fugitive Dust					18.1476	0.0000	18.1476	9.9395	0.0000	9.9395			0.0000			0.0000
Off-Road	0.8230	8.1332	7.2270	9.6100e-003		0.5762	0.5762		0.5301	0.5301		967.3483	967.3483	0.3012		973.6724
Total	0.8230	8.1332	7.2270	9.6100e-003	18.1476	0.5762	18.7238	9.9395	0.5301	10.4696		967.3483	967.3483	0.3012		973.6724

3.3 Site Preparation - 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	0.0577	0.0523	0.7014	1.7500e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		133.0065	133.0065	5.8400e-003			133.1290
Total	0.0577	0.0523	0.7014	1.7500e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		133.0065	133.0065	5.8400e-003			133.1290

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					8.1664	0.0000	8.1664	4.4728	0.0000	4.4728			0.0000			0.0000	
Off-Road	0.2349	5.3641	7.2435	9.6100e-003		0.3759	0.3759		0.3759	0.3759	0.0000	967.3483	967.3483	0.3012			973.6724
Total	0.2349	5.3641	7.2435	9.6100e-003	8.1664	0.3759	8.5423	4.4728	0.3759	4.8486	0.0000	967.3483	967.3483	0.3012			973.6724

3.3 Site Preparation - 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	0.0577	0.0523	0.7014	1.7500e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		133.0065	133.0065	5.8400e-003			133.1290
Total	0.0577	0.0523	0.7014	1.7500e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		133.0065	133.0065	5.8400e-003			133.1290

3.4 Grading - 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						
Fugitive Dust					0.1217	0.0000	0.1217	0.0161	0.0000	0.0161			0.0000			0.0000	
Off-Road	2.1379	22.4018	14.2774	0.0249		1.1107	1.1107		1.0219	1.0219		2,511.1215	2,511.1215	0.7818			2,527.5382
Total	2.1379	22.4018	14.2774	0.0249	0.1217	1.1107	1.2324	0.0161	1.0219	1.0380		2,511.1215	2,511.1215	0.7818			2,527.5382

3.4 Grading - 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	0.6078	6.4455	8.6043	0.0240	0.5792	0.1063	0.6856	0.1585	0.0978	0.2562		2,337.6183	2,337.6183	0.0157		2,337.9478
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	0.0481	0.0436	0.5845	1.4600e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		110.8387	110.8387	4.8600e-003		110.9409
Total	0.6559	6.4890	9.1888	0.0255	0.6933	0.1071	0.8005	0.1887	0.0985	0.2872		2,448.4570	2,448.4570	0.0206		2,448.8887

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					0.0547	0.0000	0.0547	7.2600e-003	0.0000	7.2600e-003			0.0000			0.0000
Off-Road	0.6148	12.0910	16.5243	0.0249		0.5599	0.5599		0.5599	0.5599	0.0000	2,511.1215	2,511.1215	0.7818		2,527.5382
Total	0.6148	12.0910	16.5243	0.0249	0.0547	0.5599	0.6146	7.2600e-003	0.5599	0.5672	0.0000	2,511.1215	2,511.1215	0.7818		2,527.5382

3.4 Grading - 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	0.6078	6.4455	8.6043	0.0240	0.5792	0.1063	0.6856	0.1585	0.0978	0.2562		2,337.6183	2,337.6183	0.0157		2,337.9478
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	0.0481	0.0436	0.5845	1.4600e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		110.8387	110.8387	4.8600e-003		110.9409
Total	0.6559	6.4890	9.1888	0.0255	0.6933	0.1071	0.8005	0.1887	0.0985	0.2872		2,448.4570	2,448.4570	0.0206		2,448.8887

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	2.2994	21.5967	15.7616	0.0247		1.2438	1.2438		1.1645	1.1645		2,424.8911	2,424.8911	0.6377		2,438.2826
Total	2.2994	21.5967	15.7616	0.0247		1.2438	1.2438		1.1645	1.1645		2,424.8911	2,424.8911	0.6377		2,438.2826

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	0.9266	6.8606	11.7828	0.0222	0.6285	0.1091	0.7376	0.1789	0.1003	0.2792		2,155.8489	2,155.8489	0.0160			2,156.1843
Worker	1.6733	1.5156	20.3403	0.0508	3.9709	0.0276	3.9985	1.0533	0.0256	1.0789		3,857.1878	3,857.1878	0.1692			3,860.7416
Total	2.5998	8.3762	32.1231	0.0730	4.5994	0.1367	4.7361	1.2322	0.1258	1.3581		6,013.0366	6,013.0366	0.1852			6,016.9259

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	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,424.8911	2,424.8911	0.6377			2,438.2826
Total	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,424.8911	2,424.8911	0.6377			2,438.2826

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	0.9266	6.8606	11.7828	0.0222	0.6285	0.1091	0.7376	0.1789	0.1003	0.2792		2,155.8489	2,155.8489	0.0160			2,156.1843
Worker	1.6733	1.5156	20.3403	0.0508	3.9709	0.0276	3.9985	1.0533	0.0256	1.0789		3,857.1878	3,857.1878	0.1692			3,860.7416
Total	2.5998	8.3762	32.1231	0.0730	4.5994	0.1367	4.7361	1.2322	0.1258	1.3581		6,013.0366	6,013.0366	0.1852			6,016.9259

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.0292	19.2057	15.3855	0.0247		1.0677	1.0677		0.9999	0.9999		2,394.4652	2,394.4652	0.6304			2,407.7040
Total	2.0292	19.2057	15.3855	0.0247		1.0677	1.0677		0.9999	0.9999		2,394.4652	2,394.4652	0.6304			2,407.7040

3.5 Building Construction - 2019

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	0.8412	6.2462	10.9746	0.0222	0.6287	0.1009	0.7296	0.1790	0.0928	0.2718		2,120.9289	2,120.9289	0.0156			2,121.2554
Worker	1.5386	1.3868	18.7948	0.0505	3.9709	0.0273	3.9981	1.0533	0.0253	1.0786		3,700.9789	3,700.9789	0.1574			3,704.2850
Total	2.3797	7.6331	29.7695	0.0727	4.5995	0.1282	4.7278	1.2323	0.1181	1.3504		5,821.9078	5,821.9078	0.1730			5,825.5404

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	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,394.4652	2,394.4652	0.6304			2,407.7040
Total	0.6146	12.4945	16.7465	0.0247		0.7156	0.7156		0.7156	0.7156	0.0000	2,394.4652	2,394.4652	0.6304			2,407.7040

3.5 Building Construction - 2019**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	0.8412	6.2462	10.9746	0.0222	0.6287	0.1009	0.7296	0.1790	0.0928	0.2718		2,120.9289	2,120.9289	0.0156			2,121.2554
Worker	1.5386	1.3868	18.7948	0.0505	3.9709	0.0273	3.9981	1.0533	0.0253	1.0786		3,700.9789	3,700.9789	0.1574			3,704.2850
Total	2.3797	7.6331	29.7695	0.0727	4.5995	0.1282	4.7278	1.2323	0.1181	1.3504		5,821.9078	5,821.9078	0.1730			5,825.5404

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	1.7557	16.5509	12.8563	0.0175		1.1795	1.1795		1.0859	1.0859		1,744.6058	1,744.6058	0.5360			1,755.8619
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7557	16.5509	12.8563	0.0175		1.1795	1.1795		1.0859	1.0859		1,744.6058	1,744.6058	0.5360			1,755.8619

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	0.0481	0.0436	0.5845	1.4600e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		110.8387	110.8387	4.8600e-003			110.9409
Total	0.0481	0.0436	0.5845	1.4600e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		110.8387	110.8387	4.8600e-003			110.9409

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	0.4582	9.5510	13.1066	0.0175		0.6791	0.6791		0.6791	0.6791	0.0000	1,744.6058	1,744.6058	0.5360			1,755.8619
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.4582	9.5510	13.1066	0.0175		0.6791	0.6791		0.6791	0.6791	0.0000	1,744.6058	1,744.6058	0.5360			1,755.8619

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	0.0481	0.0436	0.5845	1.4600e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		110.8387	110.8387	4.8600e-003			110.9409
Total	0.0481	0.0436	0.5845	1.4600e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		110.8387	110.8387	4.8600e-003			110.9409

3.7 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	156.0588					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238			281.9473
Total	156.3252	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238			281.9473

3.7 Architectural Coating - 2019

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	0.3065	0.2763	3.7446	0.0101	0.7911	5.4400e-003	0.7966	0.2099	5.0400e-003	0.2149		737.3598	737.3598	0.0314			738.0185
Total	0.3065	0.2763	3.7446	0.0101	0.7911	5.4400e-003	0.7966	0.2099	5.0400e-003	0.2149		737.3598	737.3598	0.0314			738.0185

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	156.0588					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238			281.9473
Total	156.1182	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238			281.9473

3.7 Architectural Coating - 2019

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	0.3065	0.2763	3.7446	0.0101	0.7911	5.4400e-003	0.7966	0.2099	5.0400e-003	0.2149		737.3598	737.3598	0.0314			738.0185
Total	0.3065	0.2763	3.7446	0.0101	0.7911	5.4400e-003	0.7966	0.2099	5.0400e-003	0.2149		737.3598	737.3598	0.0314			738.0185

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	16.1455	27.8978	149.9650	0.3696	24.6350	0.4242	25.0592	6.5809	0.3911	6.9721		29,046.1733	29,046.1733	1.0572			29,068.3754
Unmitigated	16.1455	27.8978	149.9650	0.3696	24.6350	0.4242	25.0592	6.5809	0.3911	6.9721		29,046.1733	29,046.1733	1.0572			29,068.3754

Sac Commons - Phase 4 Construction
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	260.00	1000sqft	3.22	260,000.00	0
Apartments High Rise	562.00	Dwelling Unit	3.07	507,480.00	1124
Strip Mall	24.00	1000sqft	0.15	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage from PD.

Construction Phase - Schedule from PD

Off-road Equipment -

Off-road Equipment - Adjust to default CalEEMod HP

Off-road Equipment - Adjust to default CalEEMod HP and LF

Off-road Equipment - CalEEMod Appendix E for small acreage projects. Technical Source Documentation. An excavator was added to the project to handle the additional earthwork activity. Adjust to default CalEEMod HP.

Off-road Equipment - Adjust to default CalEEMod HP.

Off-road Equipment - Adjust to default CalEEMod HP

Trips and VMT - Hauling trips based on material generated from earthwork activities.

Demolition - 72 du x 885 sf/du x 1.2

Grading - Data Assumptions derived from SMAQMD RoadMod spreadsheet.

Construction Off-road Equipment Mitigation - Potential mitigation measure (all Tier 3)

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	10.00	42.00

tblConstructionPhase	PhaseEndDate	12/3/2018	9/30/2019
tblConstructionPhase	PhaseEndDate	6/28/2019	6/30/2019
tblConstructionPhase	PhaseEndDate	6/29/2018	6/30/2018
tblConstructionPhase	PhaseEndDate	8/30/2019	8/31/2018
tblConstructionPhase	PhaseEndDate	3/30/2018	3/31/2018
tblConstructionPhase	PhaseStartDate	9/1/2018	7/1/2019
tblConstructionPhase	PhaseStartDate	7/1/2019	7/1/2018
tblGrading	AcresOfGrading	195.00	3.22
tblGrading	AcresOfGrading	0.00	3.22
tblGrading	MaterialExported	0.00	21,722.00
tblLandUse	LandUseSquareFeet	562,000.00	507,480.00
tblLandUse	LotAcreage	5.97	3.22
tblLandUse	LotAcreage	9.06	3.07
tblLandUse	LotAcreage	0.55	0.15
tblLandUse	Population	1,501.00	1,124.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	162.00	358.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	125.00	89.00
tblOffRoadEquipment	HorsePower	130.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	255.00	75.00
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tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00

tblOffRoadEquipment	HorsePower	199.00	358.00
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.48
tblOffRoadEquipment	LoadFactor	0.40	0.37
tblOffRoadEquipment	LoadFactor	0.40	0.41
tblOffRoadEquipment	LoadFactor	0.45	0.30
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripNumber	2,715.00	2,172.00
tblTripsAndVMT	WorkerTripNumber	30.00	15.00

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					
2017	0.0445	0.4971	0.2978	9.9000e-004	0.0306	0.0180	0.0486	5.2100e-003	0.0169	0.0221	0.0000	90.5337	90.5337	0.0233	0.0000	91.0237
2018	0.4793	3.7179	4.5518	8.8900e-003	0.7206	0.1768	0.8974	0.2979	0.1642	0.4620	0.0000	730.7367	730.7367	0.1019	0.0000	732.8764
2019	5.4392	1.8323	3.0878	6.3600e-003	0.3119	0.0816	0.3935	0.0837	0.0766	0.1603	0.0000	487.8071	487.8071	0.0487	0.0000	488.8293
Total	5.9630	6.0473	7.9374	0.0162	1.0631	0.2764	1.3395	0.3868	0.2576	0.6444	0.0000	1,309.0775	1,309.0775	0.1739	0.0000	1,312.7293

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					
2017	0.0249	0.4464	0.5277	9.9000e-004	0.0166	0.0176	0.0342	3.0800e-003	0.0176	0.0207	0.0000	90.5336	90.5336	0.0233	0.0000	91.0236
2018	0.2701	2.5863	4.8236	8.8900e-003	0.5013	0.1102	0.6115	0.1816	0.1092	0.2908	0.0000	730.7363	730.7363	0.1019	0.0000	732.8760
2019	5.3411	1.3836	3.1753	6.3600e-003	0.3119	0.0578	0.3696	0.0837	0.0571	0.1408	0.0000	487.8069	487.8069	0.0487	0.0000	488.8291
Total	5.6361	4.4162	8.5266	0.0162	0.8297	0.1856	1.0153	0.2685	0.1839	0.4523	0.0000	1,309.0768	1,309.0768	0.1739	0.0000	1,312.7286

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2017	1/31/2018	5	66	
2	Site Preparation	Site Preparation	2/1/2018	3/31/2018	5	42	
3	Grading	Grading	4/1/2018	6/30/2018	5	65	
4	Building Construction	Building Construction	7/1/2018	6/30/2019	5	260	
5	Paving	Paving	7/1/2018	8/31/2018	5	45	
6	Architectural Coating	Architectural Coating	7/1/2019	9/30/2019	5	66	

Acres of Grading (Site Preparation Phase): 3.22

Acres of Grading (Grading Phase): 3.22

Acres of Paving: 0

**Residential Indoor: 1,027,647; Residential Outdoor: 342,549; Non-Residential Indoor: 426,000; Non-Residential Outdoor: 142,000
(Architectural Coating – sqft)**

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Excavators	3	8.00	358	0.40
Demolition	Rubber Tired Dozers	2	8.00	75	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	75	0.41
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	75	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.38
Grading	Excavators	1	8.00	157	0.38
Grading	Graders	1	8.00	162	0.48
Grading	Rubber Tired Loaders	1	7.00	358	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Building Construction	Cranes	1	7.00	208	0.29
Building Construction	Forklifts	3	8.00	149	0.20
Building Construction	Generator Sets	1	8.00	84	0.50
Building Construction	Tractors/Loaders/Backhoes	3	7.00	75	0.37
Building Construction	Welders	1	8.00	46	0.30
Paving	Pavers	2	8.00	89	0.42
Paving	Paving Equipment	2	8.00	82	0.36
Paving	Rollers	2	8.00	84	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	6	15.00	0.00	348.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	15.00	0.00	2,172.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	522.00	107.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	104.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

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	tons/yr										MT/yr					
Fugitive Dust					0.0256	0.0000	0.0256	3.8700e-003	0.0000	3.8700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0409	0.4699	0.2494	8.8000e-004		0.0176	0.0176		0.0166	0.0166	0.0000	81.1789	81.1789	0.0232	0.0000	81.6657
Total	0.0409	0.4699	0.2494	8.8000e-004	0.0256	0.0176	0.0432	3.8700e-003	0.0166	0.0205	0.0000	81.1789	81.1789	0.0232	0.0000	81.6657

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	tons/yr										MT/yr					
Hauling	2.5600e-003	0.0260	0.0364	8.0000e-005	2.6800e-003	3.7000e-004	3.0500e-003	7.1000e-004	3.4000e-004	1.0500e-003	0.0000	7.3246	7.3246	5.0000e-005	0.0000	7.3256
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	9.6000e-004	1.1500e-003	0.0121	3.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0302	2.0302	1.0000e-004	0.0000	2.0324
Total	3.5200e-003	0.0272	0.0485	1.1000e-004	5.0500e-003	3.9000e-004	5.4400e-003	1.3400e-003	3.6000e-004	1.7000e-003	0.0000	9.3548	9.3548	1.5000e-004	0.0000	9.3580

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0115	0.0000	0.0115	1.7400e-003	0.0000	1.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0214	0.4192	0.4792	8.8000e-004		0.0172	0.0172		0.0172	0.0172	0.0000	81.1788	81.1788	0.0232	0.0000	81.6656
Total	0.0214	0.4192	0.4792	8.8000e-004	0.0115	0.0172	0.0287	1.7400e-003	0.0172	0.0190	0.0000	81.1788	81.1788	0.0232	0.0000	81.6656

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	tons/yr										MT/yr					
Hauling	2.5600e-003	0.0260	0.0364	8.0000e-005	2.6800e-003	3.7000e-004	3.0500e-003	7.1000e-004	3.4000e-004	1.0500e-003	0.0000	7.3246	7.3246	5.0000e-005	0.0000	7.3256
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	9.6000e-004	1.1500e-003	0.0121	3.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0302	2.0302	1.0000e-004	0.0000	2.0324
Total	3.5200e-003	0.0272	0.0485	1.1000e-004	5.0500e-003	3.9000e-004	5.4400e-003	1.3400e-003	3.6000e-004	1.7000e-003	0.0000	9.3548	9.3548	1.5000e-004	0.0000	9.3580

3.2 Demolition - 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	tons/yr										MT/yr					
Fugitive Dust					0.0137	0.0000	0.0137	2.0700e-003	0.0000	2.0700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0192	0.2089	0.1280	4.7000e-004		7.8500e-003	7.8500e-003		7.3800e-003	7.3800e-003	0.0000	42.8121	42.8121	0.0124	0.0000	43.0716
Total	0.0192	0.2089	0.1280	4.7000e-004	0.0137	7.8500e-003	0.0215	2.0700e-003	7.3800e-003	9.4500e-003	0.0000	42.8121	42.8121	0.0124	0.0000	43.0716

3.2 Demolition - 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	tons/yr										MT/yr					
Hauling	1.1800e-003	0.0125	0.0179	4.0000e-005	2.4600e-003	1.9000e-004	2.6500e-003	6.3000e-004	1.8000e-004	8.1000e-004	0.0000	3.8442	3.8442	3.0000e-005	0.0000	3.8448
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	4.6000e-004	5.5000e-004	5.8000e-003	2.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0449	1.0449	5.0000e-005	0.0000	1.0460
Total	1.6400e-003	0.0130	0.0237	6.0000e-005	3.7300e-003	2.0000e-004	3.9300e-003	9.7000e-004	1.9000e-004	1.1600e-003	0.0000	4.8891	4.8891	8.0000e-005	0.0000	4.8907

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					6.1500e-003	0.0000	6.1500e-003	9.3000e-004	0.0000	9.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.2242	0.2563	4.7000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	42.8120	42.8120	0.0124	0.0000	43.0715
Total	0.0114	0.2242	0.2563	4.7000e-004	6.1500e-003	9.2100e-003	0.0154	9.3000e-004	9.2100e-003	0.0101	0.0000	42.8120	42.8120	0.0124	0.0000	43.0715

3.2 Demolition - 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	tons/yr										MT/yr					
Hauling	1.1800e-003	0.0125	0.0179	4.0000e-005	2.4600e-003	1.9000e-004	2.6500e-003	6.3000e-004	1.8000e-004	8.1000e-004	0.0000	3.8442	3.8442	3.0000e-005	0.0000	3.8448
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	4.6000e-004	5.5000e-004	5.8000e-003	2.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0449	1.0449	5.0000e-005	0.0000	1.0460
Total	1.6400e-003	0.0130	0.0237	6.0000e-005	3.7300e-003	2.0000e-004	3.9300e-003	9.7000e-004	1.9000e-004	1.1600e-003	0.0000	4.8891	4.8891	8.0000e-005	0.0000	4.8907

3.3 Site Preparation - 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	tons/yr										MT/yr					
Fugitive Dust					0.3811	0.0000	0.3811	0.2087	0.0000	0.2087	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0173	0.1708	0.1518	2.0000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	18.4288	18.4288	5.7400e-003	0.0000	18.5493
Total	0.0173	0.1708	0.1518	2.0000e-004	0.3811	0.0121	0.3932	0.2087	0.0111	0.2199	0.0000	18.4288	18.4288	5.7400e-003	0.0000	18.5493

3.3 Site Preparation - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	1.2100e-003	0.0127	3.0000e-005	2.7800e-003	2.0000e-005	2.8000e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.2897	2.2897	1.1000e-004	0.0000	2.2920
Total	1.0000e-003	1.2100e-003	0.0127	3.0000e-005	2.7800e-003	2.0000e-005	2.8000e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.2897	2.2897	1.1000e-004	0.0000	2.2920

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1715	0.0000	0.1715	0.0939	0.0000	0.0939	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9300e-003	0.1127	0.1521	2.0000e-004		7.8900e-003	7.8900e-003		7.8900e-003	7.8900e-003	0.0000	18.4288	18.4288	5.7400e-003	0.0000	18.5493
Total	4.9300e-003	0.1127	0.1521	2.0000e-004	0.1715	7.8900e-003	0.1794	0.0939	7.8900e-003	0.1018	0.0000	18.4288	18.4288	5.7400e-003	0.0000	18.5493

3.3 Site Preparation - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	1.2100e-003	0.0127	3.0000e-005	2.7800e-003	2.0000e-005	2.8000e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.2897	2.2897	1.1000e-004	0.0000	2.2920
Total	1.0000e-003	1.2100e-003	0.0127	3.0000e-005	2.7800e-003	2.0000e-005	2.8000e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.2897	2.2897	1.1000e-004	0.0000	2.2920

3.4 Grading - 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	tons/yr										MT/yr					
Fugitive Dust					3.9500e-003	0.0000	3.9500e-003	5.2000e-004	0.0000	5.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0695	0.7281	0.4640	8.1000e-004		0.0361	0.0361		0.0332	0.0332	0.0000	74.0367	74.0367	0.0231	0.0000	74.5207
Total	0.0695	0.7281	0.4640	8.1000e-004	3.9500e-003	0.0361	0.0401	5.2000e-004	0.0332	0.0337	0.0000	74.0367	74.0367	0.0231	0.0000	74.5207

3.4 Grading - 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	tons/yr										MT/yr					
Hauling	0.0211	0.2233	0.3207	7.8000e-004	0.0183	3.4600e-003	0.0217	5.0100e-003	3.1800e-003	8.1900e-003	0.0000	68.8504	68.8504	4.7000e-004	0.0000	68.8602
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.5700e-003	0.0164	4.0000e-005	3.5800e-003	3.0000e-005	3.6100e-003	9.5000e-004	2.0000e-005	9.8000e-004	0.0000	2.9529	2.9529	1.4000e-004	0.0000	2.9559
Total	0.0224	0.2249	0.3371	8.2000e-004	0.0218	3.4900e-003	0.0253	5.9600e-003	3.2000e-003	9.1700e-003	0.0000	71.8034	71.8034	6.1000e-004	0.0000	71.8161

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7800e-003	0.0000	1.7800e-003	2.4000e-004	0.0000	2.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.3930	0.5370	8.1000e-004		0.0182	0.0182		0.0182	0.0182	0.0000	74.0366	74.0366	0.0231	0.0000	74.5206
Total	0.0200	0.3930	0.5370	8.1000e-004	1.7800e-003	0.0182	0.0200	2.4000e-004	0.0182	0.0184	0.0000	74.0366	74.0366	0.0231	0.0000	74.5206

3.4 Grading - 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	tons/yr										MT/yr					
Hauling	0.0211	0.2233	0.3207	7.8000e-004	0.0183	3.4600e-003	0.0217	5.0100e-003	3.1800e-003	8.1900e-003	0.0000	68.8504	68.8504	4.7000e-004	0.0000	68.8602
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.5700e-003	0.0164	4.0000e-005	3.5800e-003	3.0000e-005	3.6100e-003	9.5000e-004	2.0000e-005	9.8000e-004	0.0000	2.9529	2.9529	1.4000e-004	0.0000	2.9559
Total	0.0224	0.2249	0.3371	8.2000e-004	0.0218	3.4900e-003	0.0253	5.9600e-003	3.2000e-003	9.1700e-003	0.0000	71.8034	71.8034	6.1000e-004	0.0000	71.8161

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	tons/yr										MT/yr					
Off-Road	0.1506	1.4146	1.0324	1.6200e-003		0.0815	0.0815		0.0763	0.0763	0.0000	144.0885	144.0885	0.0379	0.0000	144.8842
Total	0.1506	1.4146	1.0324	1.6200e-003		0.0815	0.0815		0.0763	0.0763	0.0000	144.0885	144.0885	0.0379	0.0000	144.8842

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	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	0.0665	0.4731	0.9525	1.4500e-003	0.0400	7.1900e-003	0.0472	0.0114	6.6100e-003	0.0180	0.0000	127.6293	127.6293	9.6000e-004	0.0000	127.6495
Worker	0.0907	0.1099	1.1491	3.0000e-003	0.2511	1.8100e-003	0.2529	0.0668	1.6700e-003	0.0685	0.0000	207.1046	207.1046	0.0101	0.0000	207.3157
Total	0.1573	0.5830	2.1015	4.4500e-003	0.2911	9.0000e-003	0.3001	0.0782	8.2800e-003	0.0865	0.0000	334.7339	334.7339	0.0110	0.0000	334.9653

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					
Off-Road	0.0403	0.8184	1.0969	1.6200e-003		0.0469	0.0469		0.0469	0.0469	0.0000	144.0883	144.0883	0.0379	0.0000	144.8840
Total	0.0403	0.8184	1.0969	1.6200e-003		0.0469	0.0469		0.0469	0.0469	0.0000	144.0883	144.0883	0.0379	0.0000	144.8840

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	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	0.0665	0.4731	0.9525	1.4500e-003	0.0400	7.1900e-003	0.0472	0.0114	6.6100e-003	0.0180	0.0000	127.6293	127.6293	9.6000e-004	0.0000	127.6495
Worker	0.0907	0.1099	1.1491	3.0000e-003	0.2511	1.8100e-003	0.2529	0.0668	1.6700e-003	0.0685	0.0000	207.1046	207.1046	0.0101	0.0000	207.3157
Total	0.1573	0.5830	2.1015	4.4500e-003	0.2911	9.0000e-003	0.3001	0.0782	8.2800e-003	0.0865	0.0000	334.7339	334.7339	0.0110	0.0000	334.9653

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	1.2388	0.9924	1.5900e-003		0.0689	0.0689		0.0645	0.0645	0.0000	140.1083	140.1083	0.0369	0.0000	140.8830
Total	0.1309	1.2388	0.9924	1.5900e-003		0.0689	0.0689		0.0645	0.0645	0.0000	140.1083	140.1083	0.0369	0.0000	140.8830

3.5 Building Construction - 2019

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	0.0593	0.4239	0.8865	1.4300e-003	0.0394	6.5500e-003	0.0459	0.0113	6.0200e-003	0.0173	0.0000	123.6444	123.6444	9.2000e-004	0.0000	123.6638
Worker	0.0820	0.0989	1.0420	2.9400e-003	0.2473	1.7600e-003	0.2490	0.0658	1.6300e-003	0.0674	0.0000	195.6821	195.6821	9.2100e-003	0.0000	195.8756
Total	0.1413	0.5228	1.9285	4.3700e-003	0.2867	8.3100e-003	0.2950	0.0770	7.6500e-003	0.0847	0.0000	319.3265	319.3265	0.0101	0.0000	319.5393

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	0.0396	0.8059	1.0802	1.5900e-003		0.0462	0.0462		0.0462	0.0462	0.0000	140.1082	140.1082	0.0369	0.0000	140.8828
Total	0.0396	0.8059	1.0802	1.5900e-003		0.0462	0.0462		0.0462	0.0462	0.0000	140.1082	140.1082	0.0369	0.0000	140.8828

3.5 Building Construction - 2019

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	0.0593	0.4239	0.8865	1.4300e-003	0.0394	6.5500e-003	0.0459	0.0113	6.0200e-003	0.0173	0.0000	123.6444	123.6444	9.2000e-004	0.0000	123.6638
Worker	0.0820	0.0989	1.0420	2.9400e-003	0.2473	1.7600e-003	0.2490	0.0658	1.6300e-003	0.0674	0.0000	195.6821	195.6821	9.2100e-003	0.0000	195.8756
Total	0.1413	0.5228	1.9285	4.3700e-003	0.2867	8.3100e-003	0.2950	0.0770	7.6500e-003	0.0847	0.0000	319.3265	319.3265	0.0101	0.0000	319.5393

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	tons/yr										MT/yr					
Off-Road	0.0395	0.3724	0.2893	3.9000e-004		0.0265	0.0265		0.0244	0.0244	0.0000	35.6103	35.6103	0.0109	0.0000	35.8401
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0395	0.3724	0.2893	3.9000e-004		0.0265	0.0265		0.0244	0.0244	0.0000	35.6103	35.6103	0.0109	0.0000	35.8401

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	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	9.0000e-004	1.0800e-003	0.0113	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.0443	2.0443	1.0000e-004	0.0000	2.0464
Total	9.0000e-004	1.0800e-003	0.0113	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.0443	2.0443	1.0000e-004	0.0000	2.0464

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	0.0103	0.2149	0.2949	3.9000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	35.6103	35.6103	0.0109	0.0000	35.8400
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0103	0.2149	0.2949	3.9000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	35.6103	35.6103	0.0109	0.0000	35.8400

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	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	9.0000e-004	1.0800e-003	0.0113	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.0443	2.0443	1.0000e-004	0.0000	2.0464
Total	9.0000e-004	1.0800e-003	0.0113	3.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.0443	2.0443	1.0000e-004	0.0000	2.0464

3.7 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.1499					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7900e-003	0.0606	0.0608	1.0000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003	0.0000	8.4257	8.4257	7.1000e-004	0.0000	8.4407
Total	5.1587	0.0606	0.0608	1.0000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003	0.0000	8.4257	8.4257	7.1000e-004	0.0000	8.4407

3.7 Architectural Coating - 2019

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	8.3600e-003	0.0101	0.1062	3.0000e-004	0.0252	1.8000e-004	0.0254	6.7000e-003	1.7000e-004	6.8700e-003	0.0000	19.9466	19.9466	9.4000e-004	0.0000	19.9663
Total	8.3600e-003	0.0101	0.1062	3.0000e-004	0.0252	1.8000e-004	0.0254	6.7000e-003	1.7000e-004	6.8700e-003	0.0000	19.9466	19.9466	9.4000e-004	0.0000	19.9663

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					
Archit. Coating	5.1499					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	0.0448	0.0605	1.0000e-004		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	8.4257	8.4257	7.1000e-004	0.0000	8.4407
Total	5.1519	0.0448	0.0605	1.0000e-004		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	8.4257	8.4257	7.1000e-004	0.0000	8.4407

3.7 Architectural Coating - 2019

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	8.3600e-003	0.0101	0.1062	3.0000e-004	0.0252	1.8000e-004	0.0254	6.7000e-003	1.7000e-004	6.8700e-003	0.0000	19.9466	19.9466	9.4000e-004	0.0000	19.9663
Total	8.3600e-003	0.0101	0.1062	3.0000e-004	0.0252	1.8000e-004	0.0254	6.7000e-003	1.7000e-004	6.8700e-003	0.0000	19.9466	19.9466	9.4000e-004	0.0000	19.9663

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3769	5.0308	23.9737	0.0571	3.9876	0.0712	4.0588	1.0683	0.0656	1.1339	0.0000	4,087.0378	4,087.0378	0.1606	0.0000	4,090.4101
Unmitigated	2.3769	5.0308	23.9737	0.0571	3.9876	0.0712	4.0588	1.0683	0.0656	1.1339	0.0000	4,087.0378	4,087.0378	0.1606	0.0000	4,090.4101

Existing Land Uses Operational Emissions

CalEEMod Outputs (Winter, Summer, Annual)

Sacramento Commons
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	206.00	Dwelling Unit	5.42	206,000.00	550

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2014
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - No construction. Operational emission only.

Off-road Equipment -

Vehicle Trips - User defined average trip length provided.

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	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870
Energy	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165
Mobile	3.3281	5.7842	32.8290	0.0709	5.1856	0.0840	5.2696	1.3853	0.0776	1.4629		5,345.2342	5,345.2342	0.2058		5,349.5550
Total	9.0713	6.5095	50.4603	0.0751	5.1856	0.2184	5.4040	1.3853	0.2120	1.5973	0.0000	6,038.3206	6,038.3206	0.2511	0.0122	6,047.3584

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	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870
Energy	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165
Mobile	3.3281	5.7842	32.8290	0.0709	5.1856	0.0840	5.2696	1.3853	0.0776	1.4629		5,345.2342	5,345.2342	0.2058		5,349.5550
Total	9.0713	6.5095	50.4603	0.0751	5.1856	0.2184	5.4040	1.3853	0.2120	1.5973	0.0000	6,038.3206	6,038.3206	0.2511	0.0122	6,047.3584

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	3.3281	5.7842	32.8290	0.0709	5.1856	0.0840	5.2696	1.3853	0.0776	1.4629		5,345.234 2	5,345.234 2	0.2058		5,349.555 0
Mitigated	3.3281	5.7842	32.8290	0.0709	5.1856	0.0840	5.2696	1.3853	0.0776	1.4629		5,345.234 2	5,345.234 2	0.2058		5,349.555 0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,357.54	1,357.54	1357.54	2,448,610	2,448,610
Total	1,357.54	1,357.54	1,357.54	2,448,610	2,448,610

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
Apartments Mid Rise	5.58	5.58	5.58	46.50	12.50	41.00	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504022	0.068097	0.178374	0.146657	0.044463	0.006402	0.021337	0.017008	0.002323	0.002278	0.006305	0.000550	0.002185

5.0 Energy Detail

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	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165
NaturalGas Unmitigated	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165

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					
Apartments Mid Rise	5631.12	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165
Total		0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165

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					
Apartments Mid Rise	5.63112	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165
Total		0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165

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					
Unmitigated	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870
Mitigated	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870

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	0.7063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5678	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925		30.6018	30.6018	0.0326		31.2870
Total	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870

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	0.7063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5678	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925		30.6018	30.6018	0.0326		31.2870
Total	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870

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

Sacramento Commons
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	206.00	Dwelling Unit	5.42	206,000.00	550

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2014
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - No construction. Operational emission only.

Off-road Equipment -

Vehicle Trips - User defined average trip length provided.

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	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870
Energy	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165
Mobile	3.6505	5.0823	29.4802	0.0785	5.1856	0.0835	5.2690	1.3853	0.0770	1.4624		5,888.362 2	5,888.362 2	0.2055		5,892.677 0
Total	9.3937	5.8076	47.1114	0.0828	5.1856	0.2179	5.4035	1.3853	0.2115	1.5968	0.0000	6,581.448 7	6,581.448 7	0.2508	0.0122	6,590.480 4

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	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870
Energy	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165
Mobile	3.6505	5.0823	29.4802	0.0785	5.1856	0.0835	5.2690	1.3853	0.0770	1.4624		5,888.362 2	5,888.362 2	0.2055		5,892.677 0
Total	9.3937	5.8076	47.1114	0.0828	5.1856	0.2179	5.4035	1.3853	0.2115	1.5968	0.0000	6,581.448 7	6,581.448 7	0.2508	0.0122	6,590.480 4

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	3.6505	5.0823	29.4802	0.0785	5.1856	0.0835	5.2690	1.3853	0.0770	1.4624		5,888.362 2	5,888.362 2	0.2055		5,892.677 0
Mitigated	3.6505	5.0823	29.4802	0.0785	5.1856	0.0835	5.2690	1.3853	0.0770	1.4624		5,888.362 2	5,888.362 2	0.2055		5,892.677 0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,357.54	1,357.54	1357.54	2,448,610	2,448,610
Total	1,357.54	1,357.54	1,357.54	2,448,610	2,448,610

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
Apartments Mid Rise	5.58	5.58	5.58	46.50	12.50	41.00	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504022	0.068097	0.178374	0.146657	0.044463	0.006402	0.021337	0.017008	0.002323	0.002278	0.006305	0.000550	0.002185

5.0 Energy Detail

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	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165
NaturalGas Unmitigated	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165

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					
Apartments Mid Rise	5631.12	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165
Total		0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165

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					
Apartments Mid Rise	5.63112	0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165
Total		0.0607	0.5190	0.2208	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.4847	662.4847	0.0127	0.0122	666.5165

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					
Unmitigated	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870
Mitigated	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870

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	0.7063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5678	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925		30.6018	30.6018	0.0326		31.2870
Total	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870

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	0.7063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5678	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925		30.6018	30.6018	0.0326		31.2870
Total	5.6825	0.2064	17.4104	9.0000e-004		0.0925	0.0925		0.0925	0.0925	0.0000	30.6018	30.6018	0.0326	0.0000	31.2870

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

Sacramento Commons
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	206.00	Dwelling Unit	5.42	206,000.00	550

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2014
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - No construction. Operational emission only.

Off-road Equipment -

Vehicle Trips - User defined average trip length provided.

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0044	0.0258	2.1763	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4702	3.4702	3.7000e-003	0.0000	3.5479
Energy	0.0111	0.0947	0.0403	6.0000e-004		7.6600e-003	7.6600e-003		7.6600e-003	7.6600e-003	0.0000	309.2670	309.2670	0.0119	4.0400e-003	310.7693
Mobile	0.5794	0.9943	5.2694	0.0132	0.9116	0.0152	0.9268	0.2442	0.0140	0.2583	0.0000	901.0056	901.0056	0.0339	0.0000	901.7176
Waste						0.0000	0.0000		0.0000	0.0000	19.2354	0.0000	19.2354	1.1368	0.0000	43.1078
Water						0.0000	0.0000		0.0000	0.0000	4.7486	25.8363	30.5849	0.0176	0.0106	34.2375
Total	1.5949	1.1148	7.4860	0.0139	0.9116	0.0344	0.9461	0.2442	0.0333	0.2775	23.9841	1,239.579 1	1,263.563 2	1.2039	0.0146	1,293.380 1

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0044	0.0258	2.1763	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4702	3.4702	3.7000e-003	0.0000	3.5479
Energy	0.0111	0.0947	0.0403	6.0000e-004		7.6600e-003	7.6600e-003		7.6600e-003	7.6600e-003	0.0000	309.2670	309.2670	0.0119	4.0400e-003	310.7693
Mobile	0.5794	0.9943	5.2694	0.0132	0.9116	0.0152	0.9268	0.2442	0.0140	0.2583	0.0000	901.0056	901.0056	0.0339	0.0000	901.7176
Waste						0.0000	0.0000		0.0000	0.0000	19.2354	0.0000	19.2354	1.1368	0.0000	43.1078
Water						0.0000	0.0000		0.0000	0.0000	4.7486	25.8363	30.5849	0.0177	0.0106	34.2428
Total	1.5949	1.1148	7.4860	0.0139	0.9116	0.0344	0.9461	0.2442	0.0333	0.2775	23.9841	1,239.5791	1,263.5632	1.2040	0.0146	1,293.3854

	ROG	NOx	CO	SO2	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	-0.01	-0.07	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	1/1/2015	12/31/2014	5	0	

Acres of Grading (Site Preparation Phase): 0

	ROG	NOx	CO	SO2	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	0.5794	0.9943	5.2694	0.0132	0.9116	0.0152	0.9268	0.2442	0.0140	0.2583	0.0000	901.0056	901.0056	0.0339	0.0000	901.7176
Unmitigated	0.5794	0.9943	5.2694	0.0132	0.9116	0.0152	0.9268	0.2442	0.0140	0.2583	0.0000	901.0056	901.0056	0.0339	0.0000	901.7176

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,357.54	1,357.54	1357.54	2,448,610	2,448,610
Total	1,357.54	1,357.54	1,357.54	2,448,610	2,448,610

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
Apartments Mid Rise	5.58	5.58	5.58	46.50	12.50	41.00	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504022	0.068097	0.178374	0.146657	0.044463	0.006402	0.021337	0.017008	0.002323	0.002278	0.006305	0.000550	0.002185

5.0 Energy Detail

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	tons/yr										MT/yr					
NaturalGas Mitigated	0.0111	0.0947	0.0403	6.0000e-004		7.6600e-003	7.6600e-003		7.6600e-003	7.6600e-003	0.0000	109.6818	109.6818	2.1000e-003	2.0100e-003	110.3493
NaturalGas Unmitigated	0.0111	0.0947	0.0403	6.0000e-004		7.6600e-003	7.6600e-003		7.6600e-003	7.6600e-003	0.0000	109.6818	109.6818	2.1000e-003	2.0100e-003	110.3493
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	199.5853	199.5853	9.8000e-003	2.0300e-003	200.4200
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	199.5853	199.5853	9.8000e-003	2.0300e-003	200.4200

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	tons/yr										MT/yr					
Apartments Mid Rise	2.05536e+006	0.0111	0.0947	0.0403	6.0000e-004		7.6600e-003	7.6600e-003		7.6600e-003	7.6600e-003	0.0000	109.6818	109.6818	2.1000e-003	2.0100e-003	110.3493
Total		0.0111	0.0947	0.0403	6.0000e-004		7.6600e-003	7.6600e-003		7.6600e-003	7.6600e-003	0.0000	109.6818	109.6818	2.1000e-003	2.0100e-003	110.3493

5.2 Energy by Land Use - NaturalGas

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	tons/yr										MT/yr					
Apartments Mid Rise	2.05536e+006	0.0111	0.0947	0.0403	6.0000e-004		7.6600e-003	7.6600e-003		7.6600e-003	7.6600e-003	0.0000	109.6818	109.6818	2.1000e-003	2.0100e-003	110.3493
Total		0.0111	0.0947	0.0403	6.0000e-004		7.6600e-003	7.6600e-003		7.6600e-003	7.6600e-003	0.0000	109.6818	109.6818	2.1000e-003	2.0100e-003	110.3493

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	745388	199.5853	9.8000e-003	2.0300e-003	200.4200
Total		199.5853	9.8000e-003	2.0300e-003	200.4200

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	745388	199.5853	9.8000e-003	2.0300e-003	200.4200
Total		199.5853	9.8000e-003	2.0300e-003	200.4200

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	1.0044	0.0258	2.1763	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4702	3.4702	3.7000e-003	0.0000	3.5479
Unmitigated	1.0044	0.0258	2.1763	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4702	3.4702	3.7000e-003	0.0000	3.5479

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	0.1289					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8045					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0710	0.0258	2.1763	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4702	3.4702	3.7000e-003	0.0000	3.5479
Total	1.0044	0.0258	2.1763	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4702	3.4702	3.7000e-003	0.0000	3.5479

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1289					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8045					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0710	0.0258	2.1763	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4702	3.4702	3.7000e-003	0.0000	3.5479
Total	1.0044	0.0258	2.1763	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4702	3.4702	3.7000e-003	0.0000	3.5479

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	30.5849	0.0176	0.0106	34.2375
Mitigated	30.5849	0.0177	0.0106	34.2428

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	13.4217 / 8.46152	30.5849	0.0176	0.0106	34.2375
Total		30.5849	0.0176	0.0106	34.2375

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	13.4217 / 8.46152	30.5849	0.0177	0.0106	34.2428
Total		30.5849	0.0177	0.0106	34.2428

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.2354	1.1368	0.0000	43.1078
Unmitigated	19.2354	1.1368	0.0000	43.1078

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	94.76	19.2354	1.1368	0.0000	43.1078
Total		19.2354	1.1368	0.0000	43.1078

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	94.76	19.2354	1.1368	0.0000	43.1078
Total		19.2354	1.1368	0.0000	43.1078

9.0 Operational Offroad

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

Hotel/Condo/Retail Operational Emissions
CalEEMod Outputs (Winter, Summer, Annual)

Sac Commons_Hotel/Condo/Retail Scenario Ops

Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	300.00	Room	3.01	131,250.00	0
Apartments High Rise	660.00	Dwelling Unit	15.04	655,080.00	1762
Apartments Mid Rise	462.00	Dwelling Unit	8.27	360,310.00	1234
Condo/Townhouse	49.00	Dwelling Unit	1.01	44,100.00	131
Strip Mall	70.00	1000sqft	1.61	70,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - PD

Mobile Land Use Mitigation -

Vehicle Trips - traffic study

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	90,125.00	242,300.00

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	270,375.00	726,900.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	715,156.00	790,425.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,145,467.00	2,371,275.00
tblAreaCoating	Area_Nonresidential_Interior	270375	726900
tblAreaCoating	Area_Residential_Exterior	715156	790425
tblAreaCoating	Area_Residential_Interior	2145467	2371275
tblLandUse	LandUseSquareFeet	435,600.00	131,250.00
tblLandUse	LandUseSquareFeet	660,000.00	655,080.00
tblLandUse	LandUseSquareFeet	462,000.00	360,310.00
tblLandUse	LandUseSquareFeet	49,000.00	44,100.00
tblLandUse	LotAcreage	10.00	3.01
tblLandUse	LotAcreage	10.65	15.04
tblLandUse	LotAcreage	12.16	8.27
tblLandUse	LotAcreage	3.06	1.01
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	VendorTripNumber	155.00	205.00
tblTripsAndVMT	WorkerTripNumber	914.00	1,042.00
tblTripsAndVMT	WorkerTripNumber	183.00	208.00
tblVehicleTrips	ST_TR	7.16	2.36
tblVehicleTrips	ST_TR	7.16	4.79
tblVehicleTrips	ST_TR	7.16	3.56
tblVehicleTrips	ST_TR	8.19	4.21
tblVehicleTrips	ST_TR	42.04	64.28
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	SU_TR	6.07	2.36
tblVehicleTrips	SU_TR	6.07	4.79
tblVehicleTrips	SU_TR	6.07	3.56
tblVehicleTrips	SU_TR	5.95	4.21

tblVehicleTrips	SU_TR	20.43	64.28
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	WD_TR	6.59	2.36
tblVehicleTrips	WD_TR	6.59	4.79
tblVehicleTrips	WD_TR	6.59	3.56
tblVehicleTrips	WD_TR	8.17	4.21
tblVehicleTrips	WD_TR	44.32	64.28
tblVehicleTrips	WD_TR	102.24	0.00

2.0 Emissions Summary

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	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070
Energy	0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.712 2	5,786.712 2	0.1109	0.1061	5,821.929 2
Mobile	32.0072	59.5980	312.6976	0.5116	37.2644	0.7292	37.9936	9.9545	0.6708	10.6252		42,908.46 36	42,908.46 36	1.9220		42,948.82 56
Total	68.1307	65.3604	412.9190	0.5457	37.2644	1.6257	38.8901	9.9545	1.5673	11.5217	0.0000	48,869.21 15	48,869.21 15	2.2077	0.1061	48,948.46 17

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	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070
Energy	0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.712 2	5,786.712 2	0.1109	0.1061	5,821.929 2
Mobile	32.0072	59.5980	312.6976	0.5116	37.2644	0.7292	37.9936	9.9545	0.6708	10.6252		42,908.46 36	42,908.46 36	1.9220		42,948.82 56
Total	68.1307	65.3604	412.9190	0.5457	37.2644	1.6257	38.8901	9.9545	1.5673	11.5217	0.0000	48,869.21 15	48,869.21 15	2.2077	0.1061	48,948.46 17

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,557.60	1,557.60	1557.60	3,996,971	3,996,971
Apartments Mid Rise	2,212.98	2,212.98	2212.98	5,678,748	5,678,748
Condo/Townhouse	174.44	174.44	174.44	447,632	447,632
Hotel	1,263.00	1,263.00	1263.00	1,942,885	1,942,885
Strip Mall	4,499.60	4,499.60	4499.60	5,533,082	5,533,082
Supermarket	0.00	0.00	0.00		
Total	9,707.62	9,707.62	9,707.62	17,599,318	17,599,318

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
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504380	0.068251	0.178421	0.147199	0.044767	0.006294	0.020809	0.016358	0.002307	0.002286	0.006181	0.000572	0.002175

5.0 Energy Detail

5.1 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	0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.712 2	5,786.712 2	0.1109	0.1061	5,821.929 2
NaturalGas Unmitigated	0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.712 2	5,786.712 2	0.1109	0.1061	5,821.929 2

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					
Condo/Townhouse	2941.58	0.0317	0.2711	0.1154	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.0687	346.0687	6.6300e-003	6.3400e-003	348.1748
Hotel	14491.4	0.1563	1.4207	1.1934	8.5200e-003		0.1080	0.1080		0.1080	0.1080		1,704.875 1	1,704.875 1	0.0327	0.0313	1,715.250 7
Strip Mall	1083.56	0.0117	0.1062	0.0892	6.4000e-004		8.0700e-003	8.0700e-003		8.0700e-003	8.0700e-003		127.4778	127.4778	2.4400e-003	2.3400e-003	128.2537
Apartments High Rise	18041.5	0.1946	1.6626	0.7075	0.0106		0.1344	0.1344		0.1344	0.1344		2,122.523 8	2,122.523 8	0.0407	0.0389	2,135.441 2
Apartments Mid Rise	12629	0.1362	1.1639	0.4953	7.4300e-003		0.0941	0.0941		0.0941	0.0941		1,485.766 7	1,485.766 7	0.0285	0.0272	1,494.808 8
Total		0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.712 2	5,786.712 2	0.1109	0.1061	5,821.929 2

5.2 Energy by Land Use - NaturalGas

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					
Condo/Townhouse	2.94158	0.0317	0.2711	0.1154	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.0687	346.0687	6.6300e-003	6.3400e-003	348.1748
Hotel	14.4914	0.1563	1.4207	1.1934	8.5200e-003		0.1080	0.1080		0.1080	0.1080		1,704.8751	1,704.8751	0.0327	0.0313	1,715.2507
Strip Mall	1.08356	0.0117	0.1062	0.0892	6.4000e-004		8.0700e-003	8.0700e-003		8.0700e-003	8.0700e-003		127.4778	127.4778	2.4400e-003	2.3400e-003	128.2537
Apartments High Rise	18.0415	0.1946	1.6626	0.7075	0.0106		0.1344	0.1344		0.1344	0.1344		2,122.5238	2,122.5238	0.0407	0.0389	2,135.4412
Apartments Mid Rise	12.629	0.1362	1.1639	0.4953	7.4300e-003		0.0941	0.0941		0.0941	0.0941		1,485.7667	1,485.7667	0.0285	0.0272	1,494.8088
Total		0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.7122	5,786.7122	0.1109	0.1061	5,821.9292

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	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070
Unmitigated	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070

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	5.5712					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.9798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0420	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300		174.0358	174.0358	0.1748		177.7070
Total	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070

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	5.5712					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.9798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0420	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300		174.0358	174.0358	0.1748		177.7070
Total	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070

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

Sac Commons_Hotel/Condo/Retail Scenario Ops Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	300.00	Room	3.01	131,250.00	0
Apartments High Rise	660.00	Dwelling Unit	15.04	655,080.00	1762
Apartments Mid Rise	462.00	Dwelling Unit	8.27	360,310.00	1234
Condo/Townhouse	49.00	Dwelling Unit	1.01	44,100.00	131
Strip Mall	70.00	1000sqft	1.61	70,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - PD

Mobile Land Use Mitigation -

Vehicle Trips - traffic study

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	90,125.00	242,300.00

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	270,375.00	726,900.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	715,156.00	790,425.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,145,467.00	2,371,275.00
tblAreaCoating	Area_Nonresidential_Interior	270375	726900
tblAreaCoating	Area_Residential_Exterior	715156	790425
tblAreaCoating	Area_Residential_Interior	2145467	2371275
tblLandUse	LandUseSquareFeet	435,600.00	131,250.00
tblLandUse	LandUseSquareFeet	660,000.00	655,080.00
tblLandUse	LandUseSquareFeet	462,000.00	360,310.00
tblLandUse	LandUseSquareFeet	49,000.00	44,100.00
tblLandUse	LotAcreage	10.00	3.01
tblLandUse	LotAcreage	10.65	15.04
tblLandUse	LotAcreage	12.16	8.27
tblLandUse	LotAcreage	3.06	1.01
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	VendorTripNumber	155.00	205.00
tblTripsAndVMT	WorkerTripNumber	914.00	1,042.00
tblTripsAndVMT	WorkerTripNumber	183.00	208.00
tblVehicleTrips	ST_TR	7.16	2.36
tblVehicleTrips	ST_TR	7.16	4.79
tblVehicleTrips	ST_TR	7.16	3.56
tblVehicleTrips	ST_TR	8.19	4.21
tblVehicleTrips	ST_TR	42.04	64.28
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	SU_TR	6.07	2.36
tblVehicleTrips	SU_TR	6.07	4.79
tblVehicleTrips	SU_TR	6.07	3.56
tblVehicleTrips	SU_TR	5.95	4.21

tblVehicleTrips	SU_TR	20.43	64.28
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	WD_TR	6.59	2.36
tblVehicleTrips	WD_TR	6.59	4.79
tblVehicleTrips	WD_TR	6.59	3.56
tblVehicleTrips	WD_TR	8.17	4.21
tblVehicleTrips	WD_TR	44.32	64.28
tblVehicleTrips	WD_TR	102.24	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					
2015	11.2740	79.1275	108.0086	0.1713	18.2032	3.8034	21.2925	9.9670	3.4991	12.8092	0.0000	15,672.49 91	15,672.49 91	1.9449	0.0000	15,713.34 24
2016	10.0590	48.7276	97.6791	0.1711	9.1306	2.2955	11.4261	2.4454	2.1498	4.5952	0.0000	15,279.40 94	15,279.40 94	1.0981	0.0000	15,302.46 99
2017	612.2996	44.3455	89.0140	0.1710	9.1309	2.0650	11.1959	2.4455	1.9338	4.3793	0.0000	14,849.34 60	14,849.34 60	1.0482	0.0000	14,871.35 82
Total	633.6327	172.2006	294.7017	0.5134	36.4648	8.1638	43.9146	14.8579	7.5827	21.7837	0.0000	45,801.25 45	45,801.25 45	4.0912	0.0000	45,887.17 04

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					
2015	11.2740	79.1275	108.0086	0.1713	18.2032	3.8034	21.2925	9.9670	3.4991	12.8092	0.0000	15,672.49 91	15,672.49 91	1.9449	0.0000	15,713.34 23
2016	10.0590	48.7276	97.6791	0.1711	9.1306	2.2955	11.4261	2.4454	2.1498	4.5952	0.0000	15,279.40 94	15,279.40 94	1.0981	0.0000	15,302.46 99
2017	612.2996	44.3455	89.0140	0.1710	9.1309	2.0650	11.1959	2.4455	1.9338	4.3793	0.0000	14,849.34 60	14,849.34 60	1.0482	0.0000	14,871.35 82
Total	633.6327	172.2006	294.7017	0.5134	36.4648	8.1638	43.9146	14.8579	7.5827	21.7837	0.0000	45,801.25 45	45,801.25 45	4.0912	0.0000	45,887.17 04

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	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070
Energy	0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.7122	5,786.7122	0.1109	0.1061	5,821.9292
Mobile	34.2521	52.4565	285.5894	0.5664	37.2644	0.7228	37.9872	9.9545	0.6649	10.6193		47,359.8707	47,359.8707	1.9202		47,400.1948
Total	70.3756	58.2188	385.8108	0.6004	37.2644	1.6193	38.8837	9.9545	1.5614	11.5158	0.0000	53,320.6187	53,320.6187	2.2059	0.1061	53,399.8309

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	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070
Energy	0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.7122	5,786.7122	0.1109	0.1061	5,821.9292
Mobile	34.2521	52.4565	285.5894	0.5664	37.2644	0.7228	37.9872	9.9545	0.6649	10.6193		47,359.8707	47,359.8707	1.9202		47,400.1948
Total	70.3756	58.2188	385.8108	0.6004	37.2644	1.6193	38.8837	9.9545	1.5614	11.5158	0.0000	53,320.6187	53,320.6187	2.2059	0.1061	53,399.8309

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,557.60	1,557.60	1557.60	3,996,971	3,996,971
Apartments Mid Rise	2,212.98	2,212.98	2212.98	5,678,748	5,678,748
Condo/Townhouse	174.44	174.44	174.44	447,632	447,632
Hotel	1,263.00	1,263.00	1263.00	1,942,885	1,942,885
Strip Mall	4,499.60	4,499.60	4499.60	5,533,082	5,533,082
Supermarket	0.00	0.00	0.00		
Total	9,707.62	9,707.62	9,707.62	17,599,318	17,599,318

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
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504380	0.068251	0.178421	0.147199	0.044767	0.006294	0.020809	0.016358	0.002307	0.002286	0.006181	0.000572	0.002175

5.0 Energy Detail

5.1 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	0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.7122	5,786.7122	0.1109	0.1061	5,821.9292
NaturalGas Unmitigated	0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.7122	5,786.7122	0.1109	0.1061	5,821.9292

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					
Condo/Townhouse	2941.58	0.0317	0.2711	0.1154	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.0687	346.0687	6.6300e-003	6.3400e-003	348.1748
Hotel	14491.4	0.1563	1.4207	1.1934	8.5200e-003		0.1080	0.1080		0.1080	0.1080		1,704.8751	1,704.8751	0.0327	0.0313	1,715.2507
Strip Mall	1083.56	0.0117	0.1062	0.0892	6.4000e-004		8.0700e-003	8.0700e-003		8.0700e-003	8.0700e-003		127.4778	127.4778	2.4400e-003	2.3400e-003	128.2537
Apartments High Rise	18041.5	0.1946	1.6626	0.7075	0.0106		0.1344	0.1344		0.1344	0.1344		2,122.5238	2,122.5238	0.0407	0.0389	2,135.4412
Apartments Mid Rise	12629	0.1362	1.1639	0.4953	7.4300e-003		0.0941	0.0941		0.0941	0.0941		1,485.7667	1,485.7667	0.0285	0.0272	1,494.8088
Total		0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.7122	5,786.7122	0.1109	0.1061	5,821.9292

5.2 Energy by Land Use - NaturalGas

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					
Condo/Townhouse	2.94158	0.0317	0.2711	0.1154	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.0687	346.0687	6.6300e-003	6.3400e-003	348.1748
Hotel	14.4914	0.1563	1.4207	1.1934	8.5200e-003		0.1080	0.1080		0.1080	0.1080		1,704.8751	1,704.8751	0.0327	0.0313	1,715.2507
Strip Mall	1.08356	0.0117	0.1062	0.0892	6.4000e-004		8.0700e-003	8.0700e-003		8.0700e-003	8.0700e-003		127.4778	127.4778	2.4400e-003	2.3400e-003	128.2537
Apartments High Rise	18.0415	0.1946	1.6626	0.7075	0.0106		0.1344	0.1344		0.1344	0.1344		2,122.5238	2,122.5238	0.0407	0.0389	2,135.4412
Apartments Mid Rise	12.629	0.1362	1.1639	0.4953	7.4300e-003		0.0941	0.0941		0.0941	0.0941		1,485.7667	1,485.7667	0.0285	0.0272	1,494.8088
Total		0.5305	4.6245	2.6008	0.0289		0.3665	0.3665		0.3665	0.3665		5,786.7122	5,786.7122	0.1109	0.1061	5,821.9292

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	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070
Unmitigated	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070

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	5.5712					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.9798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0420	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300		174.0358	174.0358	0.1748		177.7070
Total	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070

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	5.5712					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.9798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0420	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300		174.0358	174.0358	0.1748		177.7070
Total	35.5930	1.1378	97.6206	5.1000e-003		0.5300	0.5300		0.5300	0.5300	0.0000	174.0358	174.0358	0.1748	0.0000	177.7070

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

Sac Commons_Hotel/Condo/Retail Scenario Ops Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	300.00	Room	3.01	131,250.00	0
Apartments High Rise	660.00	Dwelling Unit	15.04	655,080.00	1762
Apartments Mid Rise	462.00	Dwelling Unit	8.27	360,310.00	1234
Condo/Townhouse	49.00	Dwelling Unit	1.01	44,100.00	131
Strip Mall	70.00	1000sqft	1.61	70,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - PD

Mobile Land Use Mitigation -

Vehicle Trips - traffic study

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	90,125.00	242,300.00

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	270,375.00	726,900.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	715,156.00	790,425.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,145,467.00	2,371,275.00
tblAreaCoating	Area_Nonresidential_Interior	270375	726900
tblAreaCoating	Area_Residential_Exterior	715156	790425
tblAreaCoating	Area_Residential_Interior	2145467	2371275
tblLandUse	LandUseSquareFeet	435,600.00	131,250.00
tblLandUse	LandUseSquareFeet	660,000.00	655,080.00
tblLandUse	LandUseSquareFeet	462,000.00	360,310.00
tblLandUse	LandUseSquareFeet	49,000.00	44,100.00
tblLandUse	LotAcreage	10.00	3.01
tblLandUse	LotAcreage	10.65	15.04
tblLandUse	LotAcreage	12.16	8.27
tblLandUse	LotAcreage	3.06	1.01
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	VendorTripNumber	155.00	205.00
tblTripsAndVMT	WorkerTripNumber	914.00	1,042.00
tblTripsAndVMT	WorkerTripNumber	183.00	208.00
tblVehicleTrips	ST_TR	7.16	2.36
tblVehicleTrips	ST_TR	7.16	4.79
tblVehicleTrips	ST_TR	7.16	3.56
tblVehicleTrips	ST_TR	8.19	4.21
tblVehicleTrips	ST_TR	42.04	64.28
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	SU_TR	6.07	2.36
tblVehicleTrips	SU_TR	6.07	4.79
tblVehicleTrips	SU_TR	6.07	3.56
tblVehicleTrips	SU_TR	5.95	4.21

tblVehicleTrips	SU_TR	20.43	64.28
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	WD_TR	6.59	2.36
tblVehicleTrips	WD_TR	6.59	4.79
tblVehicleTrips	WD_TR	6.59	3.56
tblVehicleTrips	WD_TR	8.17	4.21
tblVehicleTrips	WD_TR	44.32	64.28
tblVehicleTrips	WD_TR	102.24	0.00

2.0 Emissions Summary

	ROG	NOx	CO	SO2	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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.3208	0.1422	12.2026	6.4000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.7353	19.7353	0.0198	0.0000	20.1516
Energy	0.0968	0.8440	0.4746	5.2800e-003		0.0669	0.0669		0.0669	0.0669	0.0000	2,733.5953	2,733.5953	0.1056	0.0356	2,746.8521
Mobile	5.4903	10.2656	50.5789	0.0951	6.5510	0.1319	6.6829	1.7550	0.1213	1.8763	0.0000	7,235.5680	7,235.5680	0.3168	0.0000	7,242.2206
Waste						0.0000	0.0000		0.0000	0.0000	167.1042	0.0000	167.1042	9.8756	0.0000	374.4913
Water						0.0000	0.0000		0.0000	0.0000	31.2311	165.1378	196.3689	0.1156	0.0696	220.3714
Total	11.9079	11.2518	63.2561	0.1010	6.5510	0.2650	6.8160	1.7550	0.2545	2.0094	198.3353	10,154.0365	10,352.3717	10.4334	0.1052	10,604.0870

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.3208	0.1422	12.2026	6.4000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.7353	19.7353	0.0198	0.0000	20.1516
Energy	0.0968	0.8440	0.4746	5.2800e-003		0.0669	0.0669		0.0669	0.0669	0.0000	2,733.5953	2,733.5953	0.1056	0.0356	2,746.8521
Mobile	5.4903	10.2656	50.5789	0.0951	6.5510	0.1319	6.6829	1.7550	0.1213	1.8763	0.0000	7,235.5680	7,235.5680	0.3168	0.0000	7,242.2206
Waste						0.0000	0.0000		0.0000	0.0000	167.1042	0.0000	167.1042	9.8756	0.0000	374.4913
Water						0.0000	0.0000		0.0000	0.0000	31.2311	165.1378	196.3689	0.1160	0.0697	220.4063
Total	11.9079	11.2518	63.2561	0.1010	6.5510	0.2650	6.8160	1.7550	0.2545	2.0094	198.3353	10,154.0365	10,352.3717	10.4338	0.1053	10,604.1218

	ROG	NOx	CO	SO2	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	-0.08	0.00

3.0 Construction Detail

Construction Phase

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,557.60	1,557.60	1557.60	3,996,971	3,996,971
Apartments Mid Rise	2,212.98	2,212.98	2212.98	5,678,748	5,678,748
Condo/Townhouse	174.44	174.44	174.44	447,632	447,632
Hotel	1,263.00	1,263.00	1263.00	1,942,885	1,942,885
Strip Mall	4,499.60	4,499.60	4499.60	5,533,082	5,533,082
Supermarket	0.00	0.00	0.00		
Total	9,707.62	9,707.62	9,707.62	17,599,318	17,599,318

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
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504380	0.068251	0.178421	0.147199	0.044767	0.006294	0.020809	0.016358	0.002307	0.002286	0.006181	0.000572	0.002175

5.0 Energy Detail

5.1 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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,775.5402	1,775.5402	0.0872	0.0181	1,782.9665
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,775.5402	1,775.5402	0.0872	0.0181	1,782.9665
NaturalGas Mitigated	0.0968	0.8440	0.4746	5.2800e-003		0.0669	0.0669		0.0669	0.0669	0.0000	958.0551	958.0551	0.0184	0.0176	963.8857
NaturalGas Unmitigated	0.0968	0.8440	0.4746	5.2800e-003		0.0669	0.0669		0.0669	0.0669	0.0000	958.0551	958.0551	0.0184	0.0176	963.8857

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	tons/yr										MT/yr					
Condo/Townhouse	1.07368e+006	5.7900e-003	0.0495	0.0211	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003	0.0000	57.2956	57.2956	1.1000e-003	1.0500e-003	57.6443
Hotel	5.28938e+006	0.0285	0.2593	0.2178	1.5600e-003		0.0197	0.0197		0.0197	0.0197	0.0000	282.2612	282.2612	5.4100e-003	5.1700e-003	283.9790
Strip Mall	395500	2.1300e-003	0.0194	0.0163	1.2000e-004		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	21.1054	21.1054	4.0000e-004	3.9000e-004	21.2338
Apartments High Rise	6.58513e+006	0.0355	0.3034	0.1291	1.9400e-003		0.0245	0.0245		0.0245	0.0245	0.0000	351.4076	351.4076	6.7400e-003	6.4400e-003	353.5462
Apartments Mid Rise	4.60959e+006	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172	0.0000	245.9853	245.9853	4.7100e-003	4.5100e-003	247.4824
Total		0.0968	0.8440	0.4746	5.3000e-003		0.0669	0.0669		0.0669	0.0669	0.0000	958.0551	958.0551	0.0184	0.0176	963.8857

5.2 Energy by Land Use - NaturalGas

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	tons/yr										MT/yr					
Hotel	5.28938e+006	0.0285	0.2593	0.2178	1.5600e-003		0.0197	0.0197		0.0197	0.0197	0.0000	282.2612	282.2612	5.4100e-003	5.1700e-003	283.9790
Strip Mall	395500	2.1300e-003	0.0194	0.0163	1.2000e-004		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	21.1054	21.1054	4.0000e-004	3.9000e-004	21.2338
Apartments High Rise	6.58513e+006	0.0355	0.3034	0.1291	1.9400e-003		0.0245	0.0245		0.0245	0.0245	0.0000	351.4076	351.4076	6.7400e-003	6.4400e-003	353.5462
Apartments Mid Rise	4.60959e+006	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172	0.0000	245.9853	245.9853	4.7100e-003	4.5100e-003	247.4824
Condo/Townhouse	1.07368e+006	5.7900e-003	0.0495	0.0211	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003	0.0000	57.2956	57.2956	1.1000e-003	1.0500e-003	57.6443
Total		0.0968	0.8440	0.4746	5.3000e-003		0.0669	0.0669		0.0669	0.0669	0.0000	958.0551	958.0551	0.0184	0.0176	963.8857

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	2.38814e+006	639.4479	0.0314	6.5000e-003	642.1225
Apartments Mid Rise	1.6717e+006	447.6136	0.0220	4.5500e-003	449.4857
Condo/Townhouse	216977	58.0978	2.8500e-003	5.9000e-004	58.3408
Hotel	1.44638e+006	387.2815	0.0190	3.9400e-003	388.9014
Strip Mall	907900	243.0994	0.0119	2.4700e-003	244.1162
Total		1,775.5402	0.0872	0.0181	1,782.9665

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	2.38814e+006	639.4479	0.0314	6.5000e-003	642.1225
Apartments Mid Rise	1.6717e+006	447.6136	0.0220	4.5500e-003	449.4857
Condo/Townhouse	216977	58.0978	2.8500e-003	5.9000e-004	58.3408
Hotel	1.44638e+006	387.2815	0.0190	3.9400e-003	388.9014
Strip Mall	907900	243.0994	0.0119	2.4700e-003	244.1162
Total		1,775.5402	0.0872	0.0181	1,782.9665

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	6.3208	0.1422	12.2026	6.4000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.7353	19.7353	0.0198	0.0000	20.1516
Unmitigated	6.3208	0.1422	12.2026	6.4000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.7353	19.7353	0.0198	0.0000	20.1516

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	1.0167					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.9238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3803	0.1422	12.2026	6.4000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.7353	19.7353	0.0198	0.0000	20.1516
Total	6.3208	0.1422	12.2026	6.4000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.7353	19.7353	0.0198	0.0000	20.1516

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0167					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.9238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3803	0.1422	12.2026	6.4000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.7353	19.7353	0.0198	0.0000	20.1516
Total	6.3208	0.1422	12.2026	6.4000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.7353	19.7353	0.0198	0.0000	20.1516

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	196.3689	0.1160	0.0697	220.4063
Unmitigated	196.3689	0.1156	0.0696	220.3714

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	3.19255 / 2.01269	7.2751	4.1900e-003	2.5200e-003	8.1439
Hotel	7.61003 / 0.845559	13.6377	9.8000e-003	5.9700e-003	15.6932
Strip Mall	2.51847 / 1.54358	5.6976	3.3000e-003	1.9900e-003	6.3828
Supermarket	1.84902 / 0.0571863	3.1746	2.3800e-003	1.4500e-003	3.6735
Apartments High Rise	43.0017 / 27.1097	97.9905	0.0564	0.0339	109.6929
Apartments Mid Rise	30.1012 / 18.9768	68.5934	0.0395	0.0238	76.7851
Total		196.3689	0.1156	0.0696	220.3714

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	3.19255 / 2.01269	7.2751	4.2000e-003	2.5200e-003	8.1451
Hotel	7.61003 / 0.845559	13.6377	9.8400e-003	5.9700e-003	15.6962
Strip Mall	2.51847 / 1.54358	5.6976	3.3100e-003	1.9900e-003	6.3838
Supermarket	1.84902 / 0.0571863	3.1746	2.3800e-003	1.4500e-003	3.6742
Apartments High Rise	43.0017 / 27.1097	97.9905	0.0566	0.0340	109.7099
Apartments Mid Rise	30.1012 / 18.9768	68.5934	0.0396	0.0238	76.7970
Total		196.3689	0.1160	0.0697	220.4063

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	167.1042	9.8756	0.0000	374.4913
Unmitigated	167.1042	9.8756	0.0000	374.4913

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	303.6	61.6281	3.6421	0.0000	138.1125
Apartments Mid Rise	212.52	43.1396	2.5495	0.0000	96.6787
Condo/Townhouse	22.54	4.5754	0.2704	0.0000	10.2538
Hotel	164.25	33.3413	1.9704	0.0000	74.7199
Strip Mall	35.7	7.2468	0.4283	0.0000	16.2405
Supermarket	84.6	17.1730	1.0149	0.0000	38.4859
Total		167.1042	9.8756	0.0000	374.4913

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	303.6	61.6281	3.6421	0.0000	138.1125
Apartments Mid Rise	212.52	43.1396	2.5495	0.0000	96.6787
Condo/Townhouse	22.54	4.5754	0.2704	0.0000	10.2538
Hotel	164.25	33.3413	1.9704	0.0000	74.7199
Strip Mall	35.7	7.2468	0.4283	0.0000	16.2405
Supermarket	84.6	17.1730	1.0149	0.0000	38.4859
Total		167.1042	9.8756	0.0000	374.4913

9.0 Operational Offroad

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

Condo/Retail Operational Emissions

CalEEMod Outputs (Winter, Summer, Annual)

Sac Commons_Condo/Retail Scenario Ops
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	756.00	Dwelling Unit	18.21	793,320.00	2019
Apartments Mid Rise	462.00	Dwelling Unit	8.27	360,310.00	1234
Condo/Townhouse	49.00	Dwelling Unit	1.01	44,100.00	131
Strip Mall	52.00	1000sqft	1.19	52,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - PD

Mobile Land Use Mitigation -

Vehicle Trips - traffic study

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	808,468.00	855,225.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,425,403.00	2,565,675.00
tblAreaCoating	Area_Residential_Exterior	808468	855225
tblAreaCoating	Area_Residential_Interior	2425403	2565675
tblLandUse	LandUseSquareFeet	756,000.00	793,320.00
tblLandUse	LandUseSquareFeet	462,000.00	360,310.00
tblLandUse	LandUseSquareFeet	49,000.00	44,100.00
tblLandUse	LotAcreage	12.19	18.21
tblLandUse	LotAcreage	12.16	8.27
tblLandUse	LotAcreage	3.06	1.01
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleTrips	ST_TR	7.16	2.36
tblVehicleTrips	ST_TR	7.16	4.79
tblVehicleTrips	ST_TR	7.16	3.56
tblVehicleTrips	ST_TR	42.04	64.28
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	SU_TR	6.07	2.36
tblVehicleTrips	SU_TR	6.07	4.79
tblVehicleTrips	SU_TR	6.07	3.56
tblVehicleTrips	SU_TR	20.43	64.28
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	WD_TR	6.59	2.36
tblVehicleTrips	WD_TR	6.59	4.79
tblVehicleTrips	WD_TR	6.59	3.56
tblVehicleTrips	WD_TR	44.32	64.28
tblVehicleTrips	WD_TR	102.24	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	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949
Energy	0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086
Mobile	25.2369	49.2434	253.1220	0.4290	31.3690	0.6077	31.9766	8.3796	0.5590	8.9386		35,985.7713	35,985.7713	1.5973		36,019.3136
Total	60.1512	53.8925	360.1968	0.4563	31.3690	1.4570	32.8260	8.3796	1.4083	9.7879	0.0000	40,531.7863	40,531.7863	1.8697	0.0799	40,595.8171

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	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949
Energy	0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086
Mobile	25.2369	49.2434	253.1220	0.4290	31.3690	0.6077	31.9766	8.3796	0.5590	8.9386		35,985.7713	35,985.7713	1.5973		36,019.3136
Total	60.1512	53.8925	360.1968	0.4563	31.3690	1.4570	32.8260	8.3796	1.4083	9.7879	0.0000	40,531.7863	40,531.7863	1.8697	0.0799	40,595.8171

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,784.16	1,784.16	1784.16	4,578,349	4,578,349
Apartments Mid Rise	2,212.98	2,212.98	2212.98	5,678,748	5,678,748
Condo/Townhouse	174.44	174.44	174.44	447,632	447,632
Strip Mall	3,342.56	3,342.56	3342.56	4,110,289	4,110,289
Supermarket	0.00	0.00	0.00		
Total	7,514.14	7,514.14	7,514.14	14,815,018	14,815,018

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
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504380	0.068251	0.178421	0.147199	0.044767	0.006294	0.020809	0.016358	0.002307	0.002286	0.006181	0.000572	0.002175

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	0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086
NaturalGas Unmitigated	0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086

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					
Condo/Townhouse	2941.58	0.0317	0.2711	0.1154	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.0687	346.0687	6.6300e-003	6.3400e-003	348.1748
Strip Mall	804.932	8.6800e-003	0.0789	0.0663	4.7000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003		94.6978	94.6978	1.8200e-003	1.7400e-003	95.2741
Apartments High Rise	20665.7	0.2229	1.9045	0.8104	0.0122		0.1540	0.1540		0.1540	0.1540		2,431.2546	2,431.2546	0.0466	0.0446	2,446.0508
Apartments Mid Rise	12629	0.1362	1.1639	0.4953	7.4300e-003		0.0941	0.0941		0.0941	0.0941		1,485.7667	1,485.7667	0.0285	0.0272	1,494.8088
Total		0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086

5.2 Energy by Land Use - NaturalGas

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					
Condo/Townhouse	2.94158	0.0317	0.2711	0.1154	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.0687	346.0687	6.6300e-003	6.3400e-003	348.1748
Strip Mall	0.804932	8.6800e-003	0.0789	0.0663	4.7000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003		94.6978	94.6978	1.8200e-003	1.7400e-003	95.2741
Apartments High Rise	20.6657	0.2229	1.9045	0.8104	0.0122		0.1540	0.1540		0.1540	0.1540		2,431.2546	2,431.2546	0.0466	0.0446	2,446.0508
Apartments Mid Rise	12.629	0.1362	1.1639	0.4953	7.4300e-003		0.0941	0.0941		0.0941	0.0941		1,485.7667	1,485.7667	0.0285	0.0272	1,494.8088
Total		0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086

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	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949
Unmitigated	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949

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	4.4827					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2879	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733		188.2272	188.2272	0.1889		192.1949
Total	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949

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	4.4827					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2879	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733		188.2272	188.2272	0.1889		192.1949
Total	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949

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

Sac Commons_Condo/Retail Scenario Ops Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	756.00	Dwelling Unit	18.21	793,320.00	2019
Apartments Mid Rise	462.00	Dwelling Unit	8.27	360,310.00	1234
Condo/Townhouse	49.00	Dwelling Unit	1.01	44,100.00	131
Strip Mall	52.00	1000sqft	1.19	52,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - PD

Mobile Land Use Mitigation -

Vehicle Trips - traffic study

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	808,468.00	855,225.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,425,403.00	2,565,675.00
tblAreaCoating	Area_Residential_Exterior	808468	855225
tblAreaCoating	Area_Residential_Interior	2425403	2565675
tblLandUse	LandUseSquareFeet	756,000.00	793,320.00
tblLandUse	LandUseSquareFeet	462,000.00	360,310.00
tblLandUse	LandUseSquareFeet	49,000.00	44,100.00
tblLandUse	LotAcreage	12.19	18.21
tblLandUse	LotAcreage	12.16	8.27
tblLandUse	LotAcreage	3.06	1.01
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleTrips	ST_TR	7.16	2.36
tblVehicleTrips	ST_TR	7.16	4.79
tblVehicleTrips	ST_TR	7.16	3.56
tblVehicleTrips	ST_TR	42.04	64.28
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	SU_TR	6.07	2.36
tblVehicleTrips	SU_TR	6.07	4.79
tblVehicleTrips	SU_TR	6.07	3.56
tblVehicleTrips	SU_TR	20.43	64.28
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	WD_TR	6.59	2.36
tblVehicleTrips	WD_TR	6.59	4.79
tblVehicleTrips	WD_TR	6.59	3.56
tblVehicleTrips	WD_TR	44.32	64.28
tblVehicleTrips	WD_TR	102.24	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	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949
Energy	0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086
Mobile	27.0017	43.3053	234.7063	0.4751	31.3690	0.6027	31.9717	8.3796	0.5545	8.9341		39,728.2051	39,728.2051	1.5959		39,761.7180
Total	61.9160	47.9544	341.7811	0.5024	31.3690	1.4520	32.8210	8.3796	1.4038	9.7834	0.0000	44,274.2201	44,274.2201	1.8683	0.0799	44,338.2215

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	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949
Energy	0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086
Mobile	27.0017	43.3053	234.7063	0.4751	31.3690	0.6027	31.9717	8.3796	0.5545	8.9341		39,728.2051	39,728.2051	1.5959		39,761.7180
Total	61.9160	47.9544	341.7811	0.5024	31.3690	1.4520	32.8210	8.3796	1.4038	9.7834	0.0000	44,274.2201	44,274.2201	1.8683	0.0799	44,338.2215

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,784.16	1,784.16	1784.16	4,578,349	4,578,349
Apartments Mid Rise	2,212.98	2,212.98	2212.98	5,678,748	5,678,748
Condo/Townhouse	174.44	174.44	174.44	447,632	447,632
Strip Mall	3,342.56	3,342.56	3342.56	4,110,289	4,110,289
Supermarket	0.00	0.00	0.00		
Total	7,514.14	7,514.14	7,514.14	14,815,018	14,815,018

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
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504380	0.068251	0.178421	0.147199	0.044767	0.006294	0.020809	0.016358	0.002307	0.002286	0.006181	0.000572	0.002175

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	0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086
NaturalGas Unmitigated	0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086

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					
Condo/Townhouse	2941.58	0.0317	0.2711	0.1154	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.0687	346.0687	6.6300e-003	6.3400e-003	348.1748
Strip Mall	804.932	8.6800e-003	0.0789	0.0663	4.7000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003		94.6978	94.6978	1.8200e-003	1.7400e-003	95.2741
Apartments High Rise	20665.7	0.2229	1.9045	0.8104	0.0122		0.1540	0.1540		0.1540	0.1540		2,431.2546	2,431.2546	0.0466	0.0446	2,446.0508
Apartments Mid Rise	12629	0.1362	1.1639	0.4953	7.4300e-003		0.0941	0.0941		0.0941	0.0941		1,485.7667	1,485.7667	0.0285	0.0272	1,494.8088
Total		0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086

5.2 Energy by Land Use - NaturalGas

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					
Condo/Townhouse	2.94158	0.0317	0.2711	0.1154	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.0687	346.0687	6.6300e-003	6.3400e-003	348.1748
Strip Mall	0.804932	8.6800e-003	0.0789	0.0663	4.7000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003		94.6978	94.6978	1.8200e-003	1.7400e-003	95.2741
Apartments High Rise	20.6657	0.2229	1.9045	0.8104	0.0122		0.1540	0.1540		0.1540	0.1540		2,431.2546	2,431.2546	0.0466	0.0446	2,446.0508
Apartments Mid Rise	12.629	0.1362	1.1639	0.4953	7.4300e-003		0.0941	0.0941		0.0941	0.0941		1,485.7667	1,485.7667	0.0285	0.0272	1,494.8088
Total		0.3995	3.4183	1.4873	0.0218		0.2760	0.2760		0.2760	0.2760		4,357.7878	4,357.7878	0.0835	0.0799	4,384.3086

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	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949
Unmitigated	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949

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	4.4827					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2879	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733		188.2272	188.2272	0.1889		192.1949
Total	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949

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	4.4827					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2879	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733		188.2272	188.2272	0.1889		192.1949
Total	34.5149	1.2308	105.5875	5.5200e-003		0.5733	0.5733		0.5733	0.5733	0.0000	188.2272	188.2272	0.1889	0.0000	192.1949

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

Sac Commons_Condo/Retail Scenario Ops
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	756.00	Dwelling Unit	18.21	793,320.00	2019
Apartments Mid Rise	462.00	Dwelling Unit	8.27	360,310.00	1234
Condo/Townhouse	49.00	Dwelling Unit	1.01	44,100.00	131
Strip Mall	52.00	1000sqft	1.19	52,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - PD

Mobile Land Use Mitigation -

Vehicle Trips - traffic study

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	808,468.00	855,225.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,425,403.00	2,565,675.00
tblAreaCoating	Area_Residential_Exterior	808468	855225
tblAreaCoating	Area_Residential_Interior	2425403	2565675
tblLandUse	LandUseSquareFeet	756,000.00	793,320.00
tblLandUse	LandUseSquareFeet	462,000.00	360,310.00
tblLandUse	LandUseSquareFeet	49,000.00	44,100.00
tblLandUse	LotAcreage	12.19	18.21
tblLandUse	LotAcreage	12.16	8.27
tblLandUse	LotAcreage	3.06	1.01
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleTrips	ST_TR	7.16	2.36
tblVehicleTrips	ST_TR	7.16	4.79
tblVehicleTrips	ST_TR	7.16	3.56
tblVehicleTrips	ST_TR	42.04	64.28
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	SU_TR	6.07	2.36
tblVehicleTrips	SU_TR	6.07	4.79
tblVehicleTrips	SU_TR	6.07	3.56
tblVehicleTrips	SU_TR	20.43	64.28
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	WD_TR	6.59	2.36
tblVehicleTrips	WD_TR	6.59	4.79
tblVehicleTrips	WD_TR	6.59	3.56
tblVehicleTrips	WD_TR	44.32	64.28
tblVehicleTrips	WD_TR	102.24	0.00

	ROG	NOx	CO	SO2	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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.1099	0.1538	13.1984	6.9000e-004		0.0717	0.0717		0.0717	0.0717	0.0000	21.3446	21.3446	0.0214	0.0000	21.7945
Energy	0.0729	0.6239	0.2714	3.9800e-003		0.0504	0.0504		0.0504	0.0504	0.0000	2,140.2386	2,140.2386	0.0835	0.0277	2,150.5635
Mobile	4.3335	8.4807	41.2088	0.0797	5.5146	0.1099	5.6246	1.4773	0.1011	1.5785	0.0000	6,068.2545	6,068.2545	0.2633	0.0000	6,073.7832
Waste						0.0000	0.0000		0.0000	0.0000	140.0414	0.0000	140.0414	8.2762	0.0000	313.8419
Water						0.0000	0.0000		0.0000	0.0000	30.4214	164.4515	194.8729	0.1128	0.0678	218.2681
Total	10.5164	9.2583	54.6786	0.0844	5.5146	0.2320	5.7466	1.4773	0.2232	1.7005	170.4628	8,394.2892	8,564.7521	8.7572	0.0955	8,778.2512

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.1099	0.1538	13.1984	6.9000e-004		0.0717	0.0717		0.0717	0.0717	0.0000	21.3446	21.3446	0.0214	0.0000	21.7945
Energy	0.0729	0.6239	0.2714	3.9800e-003		0.0504	0.0504		0.0504	0.0504	0.0000	2,140.2386	2,140.2386	0.0835	0.0277	2,150.5635
Mobile	4.3335	8.4807	41.2088	0.0797	5.5146	0.1099	5.6246	1.4773	0.1011	1.5785	0.0000	6,068.2545	6,068.2545	0.2633	0.0000	6,073.7832
Waste						0.0000	0.0000		0.0000	0.0000	140.0414	0.0000	140.0414	8.2762	0.0000	313.8419
Water						0.0000	0.0000		0.0000	0.0000	30.4214	164.4515	194.8729	0.1132	0.0679	218.3021
Total	10.5164	9.2583	54.6786	0.0844	5.5146	0.2320	5.7466	1.4773	0.2232	1.7005	170.4628	8,394.2892	8,564.7521	8.7576	0.0956	8,778.2851

	ROG	NOx	CO	SO2	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	-0.08	0.00

3.0 Construction Detail

Construction Phase

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,784.16	1,784.16	1784.16	4,578,349	4,578,349
Apartments Mid Rise	2,212.98	2,212.98	2212.98	5,678,748	5,678,748
Condo/Townhouse	174.44	174.44	174.44	447,632	447,632
Strip Mall	3,342.56	3,342.56	3342.56	4,110,289	4,110,289
Supermarket	0.00	0.00	0.00		
Total	7,514.14	7,514.14	7,514.14	14,815,018	14,815,018

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
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504380	0.068251	0.178421	0.147199	0.044767	0.006294	0.020809	0.016358	0.002307	0.002286	0.006181	0.000572	0.002175

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,418.7580	1,418.7580	0.0697	0.0144	1,424.6920
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,418.7580	1,418.7580	0.0697	0.0144	1,424.6920
NaturalGas Mitigated	0.0729	0.6239	0.2714	3.9800e-003		0.0504	0.0504		0.0504	0.0504	0.0000	721.4806	721.4806	0.0138	0.0132	725.8715
NaturalGas Unmitigated	0.0729	0.6239	0.2714	3.9800e-003		0.0504	0.0504		0.0504	0.0504	0.0000	721.4806	721.4806	0.0138	0.0132	725.8715

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	tons/yr										MT/yr					
Condo/Townhouse	1.07368e+006	5.7900e-003	0.0495	0.0211	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003	0.0000	57.2956	57.2956	1.1000e-003	1.0500e-003	57.6443
Strip Mall	293800	1.5800e-003	0.0144	0.0121	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003	0.0000	15.6783	15.6783	3.0000e-004	2.9000e-004	15.7737
Apartments High Rise	7.54297e+006	0.0407	0.3476	0.1479	2.2200e-003		0.0281	0.0281		0.0281	0.0281	0.0000	402.5215	402.5215	7.7100e-003	7.3800e-003	404.9711
Apartments Mid Rise	4.60959e+006	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172	0.0000	245.9853	245.9853	4.7100e-003	4.5100e-003	247.4824
Total		0.0729	0.6238	0.2714	3.9900e-003		0.0504	0.0504		0.0504	0.0504	0.0000	721.4807	721.4807	0.0138	0.0132	725.8715

5.2 Energy by Land Use - NaturalGas

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	tons/yr										MT/yr					
Strip Mall	293800	1.5800e-003	0.0144	0.0121	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003	0.0000	15.6783	15.6783	3.0000e-004	2.9000e-004	15.7737
Apartments High Rise	7.54297e+006	0.0407	0.3476	0.1479	2.2200e-003		0.0281	0.0281		0.0281	0.0281	0.0000	402.5215	402.5215	7.7100e-003	7.3800e-003	404.9711
Apartments Mid Rise	4.60959e+006	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172	0.0000	245.9853	245.9853	4.7100e-003	4.5100e-003	247.4824
Condo/Townhouse	1.07368e+006	5.7900e-003	0.0495	0.0211	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003	0.0000	57.2956	57.2956	1.1000e-003	1.0500e-003	57.6443
Total		0.0729	0.6238	0.2714	3.9900e-003		0.0504	0.0504		0.0504	0.0504	0.0000	721.4807	721.4807	0.0138	0.0132	725.8715

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	2.7355e+006	732.4586	0.0360	7.4400e-003	735.5221
Apartments Mid Rise	1.6717e+006	447.6136	0.0220	4.5500e-003	449.4857
Condo/Townhouse	216977	58.0978	2.8500e-003	5.9000e-004	58.3408
Strip Mall	674440	180.5881	8.8700e-003	1.8400e-003	181.3435
Total		1,418.7580	0.0697	0.0144	1,424.6920

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	2.7355e+006	732.4586	0.0360	7.4400e-003	735.5221
Apartments Mid Rise	1.6717e+006	447.6136	0.0220	4.5500e-003	449.4857
Condo/Townhouse	216977	58.0978	2.8500e-003	5.9000e-004	58.3408
Strip Mall	674440	180.5881	8.8700e-003	1.8400e-003	181.3435
Total		1,418.7580	0.0697	0.0144	1,424.6920

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	6.1099	0.1538	13.1984	6.9000e-004		0.0717	0.0717		0.0717	0.0717	0.0000	21.3446	21.3446	0.0214	0.0000	21.7945
Unmitigated	6.1099	0.1538	13.1984	6.9000e-004		0.0717	0.0717		0.0717	0.0717	0.0000	21.3446	21.3446	0.0214	0.0000	21.7945

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	0.8181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.8808					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4110	0.1538	13.1984	6.9000e-004		0.0717	0.0717		0.0717	0.0717	0.0000	21.3446	21.3446	0.0214	0.0000	21.7945
Total	6.1099	0.1538	13.1984	6.9000e-004		0.0717	0.0717		0.0717	0.0717	0.0000	21.3446	21.3446	0.0214	0.0000	21.7945

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.8181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.8808					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4110	0.1538	13.1984	6.9000e-004		0.0717	0.0717		0.0717	0.0717	0.0000	21.3446	21.3446	0.0214	0.0000	21.7945
Total	6.1099	0.1538	13.1984	6.9000e-004		0.0717	0.0717		0.0717	0.0717	0.0000	21.3446	21.3446	0.0214	0.0000	21.7945

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	194.8729	0.1132	0.0679	218.3021
Unmitigated	194.8729	0.1128	0.0678	218.2681

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	49.2564 / 31.053	112.2437	0.0646	0.0389	125.6483
Apartments Mid Rise	30.1012 / 18.9768	68.5934	0.0395	0.0238	76.7851
Condo/Townhouse	3.19255 / 2.01269	7.2751	4.1900e-003	2.5200e-003	8.1439
Strip Mall	1.58515 / 0.971545	3.5861	2.0800e-003	1.2500e-003	4.0174
Supermarket	1.84902 / 0.0571863	3.1746	2.3800e-003	1.4500e-003	3.6735
Total		194.8729	0.1128	0.0678	218.2681

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	49.2564 / 31.053	112.2437	0.0649	0.0389	125.6677
Apartments Mid Rise	30.1012 / 18.9768	68.5934	0.0396	0.0238	76.7970
Condo/Townhouse	3.19255 / 2.01269	7.2751	4.2000e-003	2.5200e-003	8.1451
Strip Mall	1.58515 / 0.971545	3.5861	2.0900e-003	1.2500e-003	4.0180
Supermarket	1.84902 / 0.0571863	3.1746	2.3800e-003	1.4500e-003	3.6742
Total		194.8729	0.1132	0.0679	218.3021

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	140.0414	8.2762	0.0000	313.8419
Unmitigated	140.0414	8.2762	0.0000	313.8419

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	347.76	70.5921	4.1719	0.0000	158.2015
Apartments Mid Rise	212.52	43.1396	2.5495	0.0000	96.6787
Condo/Townhouse	22.54	4.5754	0.2704	0.0000	10.2538
Strip Mall	22.47	4.5612	0.2696	0.0000	10.2220
Supermarket	84.6	17.1730	1.0149	0.0000	38.4859
Total		140.0415	8.2762	0.0000	313.8419

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	347.76	70.5921	4.1719	0.0000	158.2015
Apartments Mid Rise	212.52	43.1396	2.5495	0.0000	96.6787
Condo/Townhouse	22.54	4.5754	0.2704	0.0000	10.2538
Strip Mall	22.47	4.5612	0.2696	0.0000	10.2220
Supermarket	84.6	17.1730	1.0149	0.0000	38.4859
Total		140.0415	8.2762	0.0000	313.8419

9.0 Operational Offroad

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

**Proposed Construction and Operational Emissions
Emissions Summaries**

Sacramento Commons Unmitigated Construction Emissions ¹				
Phase/Sub-phase	Pollutant			
Phase 1 (Option 1)	ROG	NO _x	PM ₁₀	PM _{2.5}
Demolition	3.26	32.64	2.93	1.91
Site Preparation	2.57	29.25	1.55	1.33
Grading	3.95	41.81	7.85	4.84
Building Construction	5.33	30.61	4.44	2.18
Asphalt Paving	1.65	14.59	1.2	1.04
Architectural Coatings	131.32	2.6	0.69	0.33
Phase 1 (Option 2)	ROG	NO _x	PM ₁₀	PM _{2.5}
Demolition	3.26	32.63	2.93	1.91
Site Preparation	2.57	29.25	1.55	1.33
Grading	3.92	41.5	7.82	4.81
Building Construction	5.33	30.61	4.44	2.18
Asphalt Paving	1.84	16.34	1.33	1.15
Architectural Coatings	131.2	1.81	0.62	0.26
Phase 2	ROG	NO _x	PM ₁₀	PM _{2.5}
Demolition	3.09	30.96	2.69	1.78
Site Preparation	2.41	27.16	1.41	1.23
Grading	3.01	31.81	1.81	1.51
Building Construction	3.11	18.1	2.45	1.34
Asphalt Paving	1.21	10.77	0.9	0.76
Architectural Coatings	46.52	1.44	0.37	0.17
Phase 3	ROG	NO _x	PM ₁₀	PM _{2.5}
Demolition	3.84	40.6	2.8	1.95
Site Preparation	4.08	43.24	20.37	11.98
Grading	2.29	23.74	1.35	1.1
Building Construction	3.08	23.77	2.74	1.59
Asphalt Paving	1.76	16.34	1.27	1.11
Architectural Coatings	45.78	1.31	0.36	0.16
Phase 4	ROG	NO _x	PM ₁₀	PM _{2.5}
Demolition	2.06	23.04	2.27	1.03
Site Preparation	0.88	8.18	18.86	10.51
Grading	2.8	28.89	2.03	1.33
Building Construction	4.9	29.98	5.98	2.52
Asphalt Paving	1.81	16.6	1.28	1.12
Architectural Coatings	156.64	2.12	0.91	0.24
	ROG	NO _x	PM ₁₀	PM _{2.5}
Ph1 BC; Ph2 G²	8.34	62.42	6.25	3.69
Ph2 BC; Ph3 D; Ph4 D³	54.5	81.74	7.52	4.32
Maximum Daily Emissions	156.64	81.74	20.37	11.98
SMAQMD Thresholds (lbs/day)	None	85	N/A (concentration based)	N/A (concentration based)
Notes: ROG = reactive organic gases; NO _x = oxides of nitrogen; PM ₁₀ = particulate matter with aerodynamic diameter less than 10 microns; PM _{2.5} = particulate matter with aerodynamic diameter less than 2.5 microns; Ph = phase; BC = building construction; SP = site preparation; D = demolition; SMAQMD = Sacramento Metropolitan Air Quality Management District; TOS = thresholds of significance				
¹ Represent Summer emissions in CalEEMod				
² Emissions occur when Phase 1 Building Construction and Phase 2 Site Grading are occurring simultaneously.				
³ Emissions occur when Phase 2 Building Construction, Phase 3 Demolition and Phase 4 Demolition are occurring simultaneously.				
Source: AECOM 2014				

Sacramento Commons Unmitigated GHG Construction Emissions	
Phase	Total Emission (MT CO ₂ e)
1 (Option 1)	1,060.36
1 (Option 2)	1,059.88
2	609.80
3	805.15
4	1,312.73
Total (Opt1)	3,788.04
Total (Opt2)	3,787.56

Amortized GHG emissions	94.70	MT CO ₂ e/yr
Amortized Years	40	years

**Sacramento Commons
Health Risk Analysis Emissions**

Diesel PM_{2.5} Emissions	tons/yr	
	Unmitigated	Mitigated
2016 (Ph1 Opt2)	0.53393	-
2018 (Ph1 Opt1 or 2)	-	0.24381

Total PM_{2.5} Emissions	tons/yr	
	Unmitigated	Mitigated
2018 (Ph1 Opt1 or 2)	0.834	0.433
Diesel	0.413	0.244
Fugitive Dust	0.421	0.190

Daily Diesel ROG Emissions	lbs/day	
	Unmitigated	Mitigated
Max Daily Overlap		
Ph2 BldgConst+Ph3 Demo+Ph4 Demo	7.8542	2.1711

**Sacramento Commons
New Project Description**

EXISTING EMISSIONS (2014)					
Emissions Source	lbs/day				MT/yr
	ROG	NO_x	PM₁₀	PM_{2.5}	CO₂e
Area	5.68	0.21	0.09	0.09	4
Energy	0.06	0.52	0.04	0.04	311
Mobile	3.65	5.78	5.27	1.46	903
Waste					43
Water					34
Total	9.39	6.51	5.40	1.60	1,294

Note: Existing emissions represent the 206 du low-rise apartments to be demolished

Hotel/Condo/Retail Scenario					
Emissions Source	lbs/day				MT/yr
	ROG	NO_x	PM₁₀	PM_{2.5}	CO₂e
Area	35.59	1.14	0.53	0.53	20
Energy	0.53	4.62	0.37	0.37	2,747
Mobile	34.25	59.60	37.99	10.63	7,242
Waste					374
Water					220
Amortized Construction					95
Total	70.38	65.36	38.89	11.52	10,699
Net Change From Existing	60.98	58.85	33.49	9.92	9,404

Condo/Retail Scenario					
Emissions Source	lbs/day				MT/yr
	ROG	NO_x	PM₁₀	PM_{2.5}	CO₂e
Area	34.51	1.23	0.57	0.57	22
Energy	0.40	3.42	0.28	0.28	2,151
Mobile	27.00	49.24	31.98	8.94	6,074
Waste					314
Water					218
Amortized Construction					95
Total	61.92	53.89	32.83	9.79	8,873
Net Change From Existing	52.52	47.38	27.42	8.19	7,579

SMAQMD Rules and Regulations

Relevant Sacramento Metropolitan Air Quality Management District Rules

Rule 201: General Permit Requirements.

Any project that includes the use of equipment capable of releasing emissions to the atmosphere may be required to obtain permit(s) from SMAQMD before equipment operation. The applicant, developer, or operator of a project that includes an emergency generator, boiler, or heater should contact SMAQMD early to determine whether a permit is required and to begin the permit application process. Portable construction equipment (e.g., generators, compressors, pile drivers, and lighting equipment) with an internal combustion engine greater than 50 horsepower must have a SMAQMD permit or ARB portable equipment registration.

Rule 402: Nuisances.

The project shall not discharge air contaminants that could injure, detriment, nuisance, or annoy any considerable number of persons or the public.

Rule 403: Fugitive Dust.

The developer or contractor is required to control dust emissions from earthmoving activities or any other construction activity to prevent airborne dust from leaving the project site.

Rule 442: Architectural Coatings.

The developer or contractor is required to use coatings that comply with the content limits for volatile organic compounds (VOCs) specified in the rule.

Rule 453: Cutback and Emulsified Asphalt Paving Materials.

The developer or contractor is required to use cutback and emulsified asphalt that comply with the content limits for VOC specified in the rule.

Rule 902: Asbestos.

The developer or contractor is required to notify SMAQMD of any regulated renovation or demolition activity. Rule 902 contains specific requirements for surveying, notification, removal, and disposal of material containing asbestos.