

**Appendix A**  
**Air Quality Model Outputs**



# **Project Construction and Operations CalEEMod Output**



220 Park Road - San Mateo County, Annual

**220 Park Road**  
**San Mateo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	167.50	1000sqft	3.85	167,500.00	0
Enclosed Parking with Elevator	280.00	Space	2.52	112,000.00	0
Strip Mall	11.91	1000sqft	0.27	12,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	5			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	181	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Electricity is assumed to be PG&E for 2023, interpolated based on RPS milestones.

Land Use - Project Description details

Construction Phase - Data from Project Proponent

Off-road Equipment - Data from Project Proponent

Off-road Equipment - Data from Project Proponent

Off-road Equipment - Data from Project Proponent - Water truck modeled separately.

Off-road Equipment - Data from Project Proponent - Water Trucks Modeled Separately

Off-road Equipment - Data from Project Proponent - Electric Scissor Lift not included.

Off-road Equipment - Data from Project Proponent

Off-road Equipment - Data from Project Proponent.

Off-road Equipment - Data from Project Proponent

Trips and VMT - Data from Project Proponent. Non-default vendor trips are for water trucks. Assumes 8 hours of travel at 15 miles per hour. Soil disposal sites are 25 miles away.

Demolition - Data from Project Proponent. 115 + 20 + 2,200 + 400

Grading - Data from Project Proponent

Vehicle Trips - Trip rates from Transportation Impact Analysis 7/14/2020, including transit trip reduction and internalization. Office trips of 1,189 for 140.2

Energy Use - Data from project proponent: 2.3 million kWh, 1.5 million therms. Default proportions maintained.

Water And Wastewater - Water consumption data provided by civil engineers. Conservatively assumed all indoor water.

Solid Waste - Based on Project Proponent Data - 2.68 tons/week landfilled = 139 tons/year. Default proportions maintained.

Land Use Change -

Sequestration - Assumes worst-case: 14 trees removed, 5 trees planted.

Construction Off-road Equipment Mitigation - Mitigation - Tier 4 engines

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - 250 kw generator, converted to horsepower assuming 0.746 kw per hp. Operational hours provided by project proponent

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	20.00	72.00
tblConstructionPhase	NumDays	20.00	67.00
tblConstructionPhase	NumDays	230.00	45.00
tblConstructionPhase	NumDays	230.00	252.00
tblConstructionPhase	NumDays	20.00	58.00
tblConstructionPhase	NumDays	10.00	51.00
tblConstructionPhase	NumDays	20.00	100.00
tblEnergyUse	LightingElect	1.75	1.25

tblEnergyUse	LightingElect	3.58	1.71
tblEnergyUse	LightingElect	4.88	32.70
tblEnergyUse	NT24E	0.19	0.14
tblEnergyUse	NT24E	4.80	2.29
tblEnergyUse	NT24E	3.36	22.51
tblEnergyUse	NT24NG	1.01	37.80
tblEnergyUse	NT24NG	0.70	368.41
tblEnergyUse	T24E	3.92	2.79
tblEnergyUse	T24E	4.10	1.95
tblEnergyUse	T24E	2.24	15.01
tblEnergyUse	T24NG	18.32	685.58
tblEnergyUse	T24NG	3.90	2,052.59
tblGrading	AcresOfGrading	33.50	1.25
tblGrading	MaterialExported	0.00	60,000.00
tblLandUse	LandUseSquareFeet	11,910.00	12,500.00
tblOffRoadEquipment	HorsePower	158.00	273.00
tblOffRoadEquipment	HorsePower	158.00	273.00
tblOffRoadEquipment	HorsePower	97.00	204.00
tblOffRoadEquipment	HorsePower	221.00	275.00
tblOffRoadEquipment	HorsePower	212.00	173.00
tblOffRoadEquipment	HorsePower	100.00	110.00
tblOffRoadEquipment	HorsePower	100.00	110.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00



tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Building Structure / Exterior Systems
tblOffRoadEquipment	PhaseName		Building Exterior Final Closeout
tblOffRoadEquipment	PhaseName		Excavation/Shoring/Grading
tblOffRoadEquipment	PhaseName		Excavation/Shoring/Grading
tblOffRoadEquipment	PhaseName		Site Improvements
tblOffRoadEquipment	PhaseName		Excavation/Shoring/Grading
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Building Structure / Exterior Systems
tblOffRoadEquipment	PhaseName		Building Exterior Final Closeout
tblOffRoadEquipment	PhaseName		Excavation/Shoring/Grading
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Building Structure / Exterior Systems
tblOffRoadEquipment	PhaseName		Historic Building Temporary Relocation

tblOffRoadEquipment	PhaseName		Historic Building Back in Place / Restoration
tblOffRoadEquipment	PhaseName		Historic Building Temporary Relocation
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tblOffRoadEquipment	PhaseName		Historic Building Back in Place / Restoration
tblOffRoadEquipment	PhaseName		Historic Building Back in Place / Restoration
tblOffRoadEquipment	PhaseName		Demo/Clear
tblOffRoadEquipment	PhaseName		Excavation/Shoring/Grading
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	181
tblSequestration	NumberOfNewTrees	0.00	-9.00
tblSolidWaste	SolidWasteGenerationRate	155.78	129.00
tblSolidWaste	SolidWasteGenerationRate	12.51	10.40
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripNumber	270.00	60.00
tblTripsAndVMT	HaulingTripNumber	7,500.00	5,515.00
tblTripsAndVMT	VendorTripLength	7.30	120.00
tblTripsAndVMT	VendorTripLength	7.30	120.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	48.00	0.00
tblTripsAndVMT	VendorTripNumber	48.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	105.00	90.00
tblTripsAndVMT	WorkerTripNumber	105.00	200.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	120.00
tblTripsAndVMT	WorkerTripNumber	21.00	60.00

tblVehicleTrips	ST_TR	2.46	8.48
tblVehicleTrips	ST_TR	42.04	27.19
tblVehicleTrips	SU_TR	1.05	8.48
tblVehicleTrips	SU_TR	20.43	27.19
tblVehicleTrips	WD_TR	11.03	8.48
tblVehicleTrips	WD_TR	44.32	27.19
tblWater	IndoorWaterUseRate	29,770,402.79	4,590,000.00
tblWater	IndoorWaterUseRate	882,203.73	4,550,000.00
tblWater	OutdoorWaterUseRate	18,246,375.90	0.00
tblWater	OutdoorWaterUseRate	540,705.51	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1409	2.2775	1.5605	6.3100e-003	0.1394	0.0496	0.1890	0.0340	0.0458	0.0798	0.0000	610.8761	610.8761	0.1177	0.0000	613.8188
2022	0.2070	1.5073	2.2762	5.0100e-003	0.2532	0.0685	0.3216	0.0658	0.0658	0.1316	0.0000	446.2358	446.2358	0.0585	0.0000	447.6983
2023	1.0330	0.4410	0.8549	1.7800e-003	0.0808	0.0204	0.1012	0.0215	0.0195	0.0410	0.0000	157.0416	157.0416	0.0219	0.0000	157.5899
<b>Maximum</b>	<b>1.0330</b>	<b>2.2775</b>	<b>2.2762</b>	<b>6.3100e-003</b>	<b>0.2532</b>	<b>0.0685</b>	<b>0.3216</b>	<b>0.0658</b>	<b>0.0658</b>	<b>0.1316</b>	<b>0.0000</b>	<b>610.8761</b>	<b>610.8761</b>	<b>0.1177</b>	<b>0.0000</b>	<b>613.8188</b>

#### 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					
2021	0.0766	1.5036	1.9964	6.3100e-003	0.1211	8.3000e-003	0.1294	0.0312	8.1100e-003	0.0393	0.0000	610.8759	610.8759	0.1177	0.0000	613.8185
2022	0.0983	0.4147	2.5350	5.0100e-003	0.2509	6.0800e-003	0.2570	0.0655	5.9800e-003	0.0714	0.0000	446.2355	446.2355	0.0585	0.0000	447.6979
2023	0.9996	0.1295	0.9410	1.7800e-003	0.0808	2.1600e-003	0.0829	0.0215	2.1300e-003	0.0236	0.0000	157.0415	157.0415	0.0219	0.0000	157.5898
Maximum	0.9996	1.5036	2.5350	6.3100e-003	0.2509	8.3000e-003	0.2570	0.0655	8.1100e-003	0.0714	0.0000	610.8759	610.8759	0.1177	0.0000	613.8185

	ROG	NOx	CO	SO2	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	14.95	51.54	-16.64	0.00	4.34	88.06	23.30	2.54	87.63	46.76	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2021	6-30-2021	0.2050	0.1093
2	7-1-2021	9-30-2021	0.1695	0.0736
3	10-1-2021	12-31-2021	2.0348	1.3950
4	1-1-2022	3-31-2022	0.4916	0.1739
5	4-1-2022	6-30-2022	0.3598	0.0934
6	7-1-2022	9-30-2022	0.3637	0.0944
7	10-1-2022	12-31-2022	0.5130	0.1670
8	1-1-2023	3-31-2023	0.2408	0.0663
9	4-1-2023	6-30-2023	0.3793	0.2478
10	7-1-2023	9-30-2023	0.7147	0.6825
		Highest	2.0348	1.3950

## 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	0.8068	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.2100e-003	8.2100e-003	2.0000e-005	0.0000	8.7500e-003
Energy	0.8165	7.4230	6.2353	0.0445		0.5642	0.5642		0.5642	0.5642	0.0000	8,273.1321	8,273.1321	0.1857	0.1545	8,323.8225
Mobile	0.3792	1.0582	4.2298	0.0149	1.4435	0.0120	1.4555	0.3880	0.0111	0.3991	0.0000	1,365.7514	1,365.7514	0.0491	0.0000	1,366.9777
Stationary	4.9500e-003	0.0138	0.0126	2.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	2.2962	2.2962	3.2000e-004	0.0000	2.3043
Waste						0.0000	0.0000		0.0000	0.0000	28.2969	0.0000	28.2969	1.6723	0.0000	70.1045
Water						0.0000	0.0000		0.0000	0.0000	2.8997	4.0604	6.9601	0.2985	7.1700e-003	16.5578
<b>Total</b>	<b>2.0075</b>	<b>8.4950</b>	<b>10.4820</b>	<b>0.0595</b>	<b>1.4435</b>	<b>0.5769</b>	<b>2.0204</b>	<b>0.3880</b>	<b>0.5760</b>	<b>0.9640</b>	<b>31.1966</b>	<b>9,645.2483</b>	<b>9,676.4450</b>	<b>2.2059</b>	<b>0.1617</b>	<b>9,779.7754</b>

### 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	0.8068	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.2100e-003	8.2100e-003	2.0000e-005	0.0000	8.7500e-003
Energy	0.8165	7.4230	6.2353	0.0445		0.5642	0.5642		0.5642	0.5642	0.0000	8,272.3111	8,272.3111	0.1856	0.1545	8,322.9901
Mobile	0.3792	1.0582	4.2298	0.0149	1.4435	0.0120	1.4555	0.3880	0.0111	0.3991	0.0000	1,365.7514	1,365.7514	0.0491	0.0000	1,366.9777
Stationary	4.9500e-003	0.0138	0.0126	2.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	2.2962	2.2962	3.2000e-004	0.0000	2.3043
Waste						0.0000	0.0000		0.0000	0.0000	28.2969	0.0000	28.2969	1.6723	0.0000	70.1045
Water						0.0000	0.0000		0.0000	0.0000	2.8997	4.0604	6.9601	0.2985	7.1700e-003	16.5578
<b>Total</b>	<b>2.0075</b>	<b>8.4950</b>	<b>10.4820</b>	<b>0.0595</b>	<b>1.4435</b>	<b>0.5769</b>	<b>2.0204</b>	<b>0.3880</b>	<b>0.5760</b>	<b>0.9640</b>	<b>31.1966</b>	<b>9,644.4273</b>	<b>9,675.6239</b>	<b>2.2057</b>	<b>0.1617</b>	<b>9,778.9430</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01

## 2.3 Vegetation

### Vegetation

	CO2e
Category	MT
New Trees	-6.3720
<b>Total</b>	<b>-6.3720</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demo/Clear	Demolition	4/1/2021	6/16/2021	5	55	
2	Historic Building Temporary Relocation	Demolition	6/17/2021	9/24/2021	5	72	
3	Excavation/Shoring/Grading	Grading	10/7/2021	1/8/2022	5	67	
4	Foundation	Building Construction	1/9/2022	3/11/2022	5	45	
5	Building Structure / Exterior Systems	Building Construction	3/14/2022	2/28/2023	5	252	
6	Historic Building Back in Place / Restoration	Paving	10/5/2022	12/23/2022	5	58	
7	Site Improvements	Site Preparation	3/22/2023	5/31/2023	5	51	
8	Building Exterior Final Closeout	Architectural Coating	6/1/2023	10/18/2023	5	100	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 2.52**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 270,000; Non-Residential Outdoor: 90,000; Striped Parking Area:**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demo/Clear	Excavators	1	8.00	273	0.38
Demo/Clear	Sweepers/Scrubbers	1	8.00	64	0.46
Historic Building Temporary Relocation	Rough Terrain Forklifts	2	8.00	110	0.40
Historic Building Temporary Relocation	Skid Steer Loaders	1	8.00	65	0.37
Historic Building Temporary Relocation	Skid Steer Loaders	1	4.00	65	0.37
Excavation/Shoring/Grading	Bore/Drill Rigs	2	8.00	221	0.50
Excavation/Shoring/Grading	Bore/Drill Rigs	1	8.00	275	0.50
Excavation/Shoring/Grading	Crawler Tractors	1	8.00	173	0.43
Excavation/Shoring/Grading	Excavators	1	8.00	273	0.38
Excavation/Shoring/Grading	Forklifts	1	8.00	89	0.20
Excavation/Shoring/Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Excavation/Shoring/Grading	Tractors/Loaders/Backhoes	1	8.00	204	0.37
Foundation	Cranes	1	8.00	231	0.29
Foundation	Excavators	1	8.00	158	0.38
Foundation	Forklifts	1	8.00	89	0.20
Foundation	Pumps	1	8.00	84	0.74
Buliding Structure / Exterior Systems	Aerial Lifts	1	8.00	63	0.31
Buliding Structure / Exterior Systems	Excavators	1	8.00	158	0.38
Buliding Structure / Exterior Systems	Forklifts	1	8.00	89	0.20
Buliding Structure / Exterior Systems	Generator Sets	1	8.00	84	0.74
Buliding Structure / Exterior Systems	Pumps	1	8.00	84	0.74
Historic Building Back in Place / Restoration	Rough Terrain Forklifts	2	8.00	110	0.40
Historic Building Back in Place / Restoration	Skid Steer Loaders	1	8.00	65	0.37
Historic Building Back in Place / Restoration	Skid Steer Loaders	1	4.00	65	0.37

Site Improvements	Concrete/Industrial Saws	1	8.00	81	0.73
Site Improvements	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Exterior Final Closeout	Aerial Lifts	1	8.00	63	0.31
Building Exterior Final Closeout	Excavators	1	8.00	158	0.38

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demo/Clear	2	20.00	1.00	60.00	10.80	120.00	35.00	LD_Mix	HDT_Mix	HHDT
Historic Building Temporary Relocation	4	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Excavation/Shoring/Grading	8	40.00	1.00	5,515.00	10.80	120.00	35.00	LD_Mix	HDT_Mix	HHDT
Foundation	4	90.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Structure / Exterior Systems	6	200.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Historic Building Back in Place / Restoration	4	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Improvements	3	120.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Exterior Final Closeout	3	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demo/Clear - 2021

#### 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					0.0293	0.0000	0.0293	4.4300e-003	0.0000	4.4300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0135	0.1236	0.1084	3.1000e-004		6.4000e-003	6.4000e-003		5.8900e-003	5.8900e-003	0.0000	27.5774	27.5774	8.9200e-003	0.0000	27.8004
<b>Total</b>	<b>0.0135</b>	<b>0.1236</b>	<b>0.1084</b>	<b>3.1000e-004</b>	<b>0.0293</b>	<b>6.4000e-003</b>	<b>0.0357</b>	<b>4.4300e-003</b>	<b>5.8900e-003</b>	<b>0.0103</b>	<b>0.0000</b>	<b>27.5774</b>	<b>27.5774</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>27.8004</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.1000e-004	0.0138	6.7300e-003	4.0000e-005	8.8000e-004	5.0000e-005	9.2000e-004	2.4000e-004	4.0000e-005	2.9000e-004	0.0000	4.1620	4.1620	5.4000e-004	0.0000	4.1754
Vendor	8.7000e-004	0.0244	0.0114	1.0000e-004	2.9400e-003	9.0000e-005	3.0300e-003	8.5000e-004	9.0000e-005	9.4000e-004	0.0000	10.2802	10.2802	8.4000e-004	0.0000	10.3012
Worker	1.4000e-003	9.1000e-004	9.8800e-003	4.0000e-005	4.3300e-003	3.0000e-005	4.3600e-003	1.1500e-003	2.0000e-005	1.1800e-003	0.0000	3.4772	3.4772	6.0000e-005	0.0000	3.4787
<b>Total</b>	<b>2.6800e-003</b>	<b>0.0391</b>	<b>0.0280</b>	<b>1.8000e-004</b>	<b>8.1500e-003</b>	<b>1.7000e-004</b>	<b>8.3100e-003</b>	<b>2.2400e-003</b>	<b>1.5000e-004</b>	<b>2.4100e-003</b>	<b>0.0000</b>	<b>17.9194</b>	<b>17.9194</b>	<b>1.4400e-003</b>	<b>0.0000</b>	<b>17.9553</b>

**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					0.0132	0.0000	0.0132	1.9900e-003	0.0000	1.9900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7300e-003	0.0522	0.1635	3.1000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	27.5774	27.5774	8.9200e-003	0.0000	27.8003
<b>Total</b>	<b>4.7300e-003</b>	<b>0.0522</b>	<b>0.1635</b>	<b>3.1000e-004</b>	<b>0.0132</b>	<b>5.2000e-004</b>	<b>0.0137</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>2.5100e-003</b>	<b>0.0000</b>	<b>27.5774</b>	<b>27.5774</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>27.8003</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.1000e-004	0.0138	6.7300e-003	4.0000e-005	8.8000e-004	5.0000e-005	9.2000e-004	2.4000e-004	4.0000e-005	2.9000e-004	0.0000	4.1620	4.1620	5.4000e-004	0.0000	4.1754
Vendor	8.7000e-004	0.0244	0.0114	1.0000e-004	2.9400e-003	9.0000e-005	3.0300e-003	8.5000e-004	9.0000e-005	9.4000e-004	0.0000	10.2802	10.2802	8.4000e-004	0.0000	10.3012
Worker	1.4000e-003	9.1000e-004	9.8800e-003	4.0000e-005	4.3300e-003	3.0000e-005	4.3600e-003	1.1500e-003	2.0000e-005	1.1800e-003	0.0000	3.4772	3.4772	6.0000e-005	0.0000	3.4787
<b>Total</b>	<b>2.6800e-003</b>	<b>0.0391</b>	<b>0.0280</b>	<b>1.8000e-004</b>	<b>8.1500e-003</b>	<b>1.7000e-004</b>	<b>8.3100e-003</b>	<b>2.2400e-003</b>	<b>1.5000e-004</b>	<b>2.4100e-003</b>	<b>0.0000</b>	<b>17.9194</b>	<b>17.9194</b>	<b>1.4400e-003</b>	<b>0.0000</b>	<b>17.9553</b>

**3.3 Historic Building Temporary Relocation - 2021**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1819	0.2568	3.8000e-004		7.1500e-003	7.1500e-003		6.5800e-003	6.5800e-003	0.0000	33.7883	33.7883	0.0109	0.0000	34.0615
<b>Total</b>	<b>0.0138</b>	<b>0.1819</b>	<b>0.2568</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>7.1500e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>6.5800e-003</b>	<b>6.5800e-003</b>	<b>0.0000</b>	<b>33.7883</b>	<b>33.7883</b>	<b>0.0109</b>	<b>0.0000</b>	<b>34.0615</b>

**Unmitigated Construction Off-Site**



Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.1900e-003	0.0129	5.0000e-005	5.6700e-003	3.0000e-005	5.7000e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5519	4.5519	8.0000e-005	0.0000	4.5540
<b>Total</b>	<b>1.8400e-003</b>	<b>1.1900e-003</b>	<b>0.0129</b>	<b>5.0000e-005</b>	<b>5.6700e-003</b>	<b>3.0000e-005</b>	<b>5.7000e-003</b>	<b>1.5100e-003</b>	<b>3.0000e-005</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>4.5519</b>	<b>4.5519</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>4.5540</b>

### 3.4 Excavation/Shoring/Grading - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0600e-003	0.0000	4.0600e-003	5.9000e-004	0.0000	5.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0704	0.7316	0.5468	1.7500e-003		0.0318	0.0318		0.0293	0.0293	0.0000	153.6026	153.6026	0.0497	0.0000	154.8446
<b>Total</b>	<b>0.0704</b>	<b>0.7316</b>	<b>0.5468</b>	<b>1.7500e-003</b>	<b>4.0600e-003</b>	<b>0.0318</b>	<b>0.0359</b>	<b>5.9000e-004</b>	<b>0.0293</b>	<b>0.0299</b>	<b>0.0000</b>	<b>153.6026</b>	<b>153.6026</b>	<b>0.0497</b>	<b>0.0000</b>	<b>154.8446</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0345	1.1706	0.5724	3.4300e-003	0.0792	3.9000e-003	0.0831	0.0216	3.7300e-003	0.0254	0.0000	354.0085	354.0085	0.0456	0.0000	355.1478
Vendor	9.8000e-004	0.0275	0.0129	1.2000e-004	3.3100e-003	1.0000e-004	3.4100e-003	9.6000e-004	1.0000e-004	1.0600e-003	0.0000	11.5886	11.5886	9.5000e-004	0.0000	11.6122
Worker	3.1600e-003	2.0600e-003	0.0223	9.0000e-005	9.7600e-003	6.0000e-005	9.8200e-003	2.6000e-003	5.0000e-005	2.6500e-003	0.0000	7.8394	7.8394	1.4000e-004	0.0000	7.8430
<b>Total</b>	<b>0.0387</b>	<b>1.2002</b>	<b>0.6076</b>	<b>3.6400e-003</b>	<b>0.0923</b>	<b>4.0600e-003</b>	<b>0.0963</b>	<b>0.0252</b>	<b>3.8800e-003</b>	<b>0.0291</b>	<b>0.0000</b>	<b>373.4365</b>	<b>373.4365</b>	<b>0.0467</b>	<b>0.0000</b>	<b>374.6030</b>

**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					1.8200e-003	0.0000	1.8200e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.1337	0.8928	1.7500e-003		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	153.6024	153.6024	0.0497	0.0000	154.8444
<b>Total</b>	<b>0.0226</b>	<b>0.1337</b>	<b>0.8928</b>	<b>1.7500e-003</b>	<b>1.8200e-003</b>	<b>2.8800e-003</b>	<b>4.7000e-003</b>	<b>2.6000e-004</b>	<b>2.8800e-003</b>	<b>3.1400e-003</b>	<b>0.0000</b>	<b>153.6024</b>	<b>153.6024</b>	<b>0.0497</b>	<b>0.0000</b>	<b>154.8444</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0345	1.1706	0.5724	3.4300e-003	0.0792	3.9000e-003	0.0831	0.0216	3.7300e-003	0.0254	0.0000	354.0085	354.0085	0.0456	0.0000	355.1478
Vendor	9.8000e-004	0.0275	0.0129	1.2000e-004	3.3100e-003	1.0000e-004	3.4100e-003	9.6000e-004	1.0000e-004	1.0600e-003	0.0000	11.5886	11.5886	9.5000e-004	0.0000	11.6122
Worker	3.1600e-003	2.0600e-003	0.0223	9.0000e-005	9.7600e-003	6.0000e-005	9.8200e-003	2.6000e-003	5.0000e-005	2.6500e-003	0.0000	7.8394	7.8394	1.4000e-004	0.0000	7.8430
<b>Total</b>	<b>0.0387</b>	<b>1.2002</b>	<b>0.6076</b>	<b>3.6400e-003</b>	<b>0.0923</b>	<b>4.0600e-003</b>	<b>0.0963</b>	<b>0.0252</b>	<b>3.8800e-003</b>	<b>0.0291</b>	<b>0.0000</b>	<b>373.4365</b>	<b>373.4365</b>	<b>0.0467</b>	<b>0.0000</b>	<b>374.6030</b>

**3.4 Excavation/Shoring/Grading - 2022**

**Unmitigated Construction On-Site**



Off-Road	1.8200e-003	0.0108	0.0720	1.4000e-004		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	12.3791	12.3791	4.0000e-003	0.0000	12.4792
<b>Total</b>	<b>1.8200e-003</b>	<b>0.0108</b>	<b>0.0720</b>	<b>1.4000e-004</b>	<b>1.8200e-003</b>	<b>2.3000e-004</b>	<b>2.0500e-003</b>	<b>2.6000e-004</b>	<b>2.3000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>12.3791</b>	<b>12.3791</b>	<b>4.0000e-003</b>	<b>0.0000</b>	<b>12.4792</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6500e-003	0.0864	0.0478	2.7000e-004	0.0622	2.8000e-004	0.0625	0.0155	2.6000e-004	0.0157	0.0000	28.0600	28.0600	3.7200e-003	0.0000	28.1530
Vendor	8.0000e-005	2.0400e-003	1.0500e-003	1.0000e-005	2.7000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9232	0.9232	8.0000e-005	0.0000	0.9252
Worker	2.4000e-004	1.5000e-004	1.6700e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6091	0.6091	1.0000e-005	0.0000	0.6093
<b>Total</b>	<b>2.9700e-003</b>	<b>0.0886</b>	<b>0.0505</b>	<b>2.9000e-004</b>	<b>0.0633</b>	<b>2.9000e-004</b>	<b>0.0636</b>	<b>0.0157</b>	<b>2.7000e-004</b>	<b>0.0160</b>	<b>0.0000</b>	<b>29.5923</b>	<b>29.5923</b>	<b>3.8100e-003</b>	<b>0.0000</b>	<b>29.6875</b>

**3.5 Foundation - 2022**

**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	0.0234	0.2247	0.2257	4.3000e-004		0.0109	0.0109		0.0103	0.0103	0.0000	37.3515	37.3515	8.6200e-003	0.0000	37.5669
<b>Total</b>	<b>0.0234</b>	<b>0.2247</b>	<b>0.2257</b>	<b>4.3000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0103</b>	<b>0.0103</b>	<b>0.0000</b>	<b>37.3515</b>	<b>37.3515</b>	<b>8.6200e-003</b>	<b>0.0000</b>	<b>37.5669</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8800e-003	3.0300e-003	0.0339	1.4000e-004	0.0159	1.0000e-004	0.0160	4.2400e-003	9.0000e-005	4.3300e-003	0.0000	12.3340	12.3340	2.1000e-004	0.0000	12.3392
<b>Total</b>	<b>4.8800e-003</b>	<b>3.0300e-003</b>	<b>0.0339</b>	<b>1.4000e-004</b>	<b>0.0159</b>	<b>1.0000e-004</b>	<b>0.0160</b>	<b>4.2400e-003</b>	<b>9.0000e-005</b>	<b>4.3300e-003</b>	<b>0.0000</b>	<b>12.3340</b>	<b>12.3340</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>12.3392</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9300e-003	0.0214	0.2640	4.3000e-004		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	37.3515	37.3515	8.6200e-003	0.0000	37.5669
<b>Total</b>	<b>4.9300e-003</b>	<b>0.0214</b>	<b>0.2640</b>	<b>4.3000e-004</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>37.3515</b>	<b>37.3515</b>	<b>8.6200e-003</b>	<b>0.0000</b>	<b>37.5669</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8800e-003	3.0300e-003	0.0339	1.4000e-004	0.0159	1.0000e-004	0.0160	4.2400e-003	9.0000e-005	4.3300e-003	0.0000	12.3340	12.3340	2.1000e-004	0.0000	12.3392
<b>Total</b>	<b>4.8800e-003</b>	<b>3.0300e-003</b>	<b>0.0339</b>	<b>1.4000e-004</b>	<b>0.0159</b>	<b>1.0000e-004</b>	<b>0.0160</b>	<b>4.2400e-003</b>	<b>9.0000e-005</b>	<b>4.3300e-003</b>	<b>0.0000</b>	<b>12.3340</b>	<b>12.3340</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>12.3392</b>

### 3.6 Buliding Structure / Exterior Systems - 2022

#### 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	0.1086	0.9754	1.3556	2.2600e-003		0.0492	0.0492		0.0478	0.0478	0.0000	195.9131	195.9131	0.0308	0.0000	196.6836
<b>Total</b>	<b>0.1086</b>	<b>0.9754</b>	<b>1.3556</b>	<b>2.2600e-003</b>		<b>0.0492</b>	<b>0.0492</b>		<b>0.0478</b>	<b>0.0478</b>	<b>0.0000</b>	<b>195.9131</b>	<b>195.9131</b>	<b>0.0308</b>	<b>0.0000</b>	<b>196.6836</b>

#### Unmitigated Construction Off-Site

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

Worker	0.0506	0.0314	0.3511	1.4100e-003	0.1653	9.9000e-004	0.1663	0.0440	9.1000e-004	0.0449	0.0000	127.9080	127.9080	2.1700e-003	0.0000	127.9623
<b>Total</b>	<b>0.0506</b>	<b>0.0314</b>	<b>0.3511</b>	<b>1.4100e-003</b>	<b>0.1653</b>	<b>9.9000e-004</b>	<b>0.1663</b>	<b>0.0440</b>	<b>9.1000e-004</b>	<b>0.0449</b>	<b>0.0000</b>	<b>127.9080</b>	<b>127.9080</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>127.9623</b>

**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	0.0268	0.1964	1.5190	2.2600e-003		3.2800e-003	3.2800e-003		3.2800e-003	3.2800e-003	0.0000	195.9128	195.9128	0.0308	0.0000	196.6834
<b>Total</b>	<b>0.0268</b>	<b>0.1964</b>	<b>1.5190</b>	<b>2.2600e-003</b>		<b>3.2800e-003</b>	<b>3.2800e-003</b>		<b>3.2800e-003</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>195.9128</b>	<b>195.9128</b>	<b>0.0308</b>	<b>0.0000</b>	<b>196.6834</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0506	0.0314	0.3511	1.4100e-003	0.1653	9.9000e-004	0.1663	0.0440	9.1000e-004	0.0449	0.0000	127.9080	127.9080	2.1700e-003	0.0000	127.9623
<b>Total</b>	<b>0.0506</b>	<b>0.0314</b>	<b>0.3511</b>	<b>1.4100e-003</b>	<b>0.1653</b>	<b>9.9000e-004</b>	<b>0.1663</b>	<b>0.0440</b>	<b>9.1000e-004</b>	<b>0.0449</b>	<b>0.0000</b>	<b>127.9080</b>	<b>127.9080</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>127.9623</b>

**3.6 Buliding Structure / Exterior Systems - 2023**

**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	0.0202	0.1787	0.2707	4.5000e-004		8.5600e-003	8.5600e-003		8.3100e-003	8.3100e-003	0.0000	39.1843	39.1843	6.0600e-003	0.0000	39.3359
<b>Total</b>	<b>0.0202</b>	<b>0.1787</b>	<b>0.2707</b>	<b>4.5000e-004</b>		<b>8.5600e-003</b>	<b>8.5600e-003</b>		<b>8.3100e-003</b>	<b>8.3100e-003</b>	<b>0.0000</b>	<b>39.1843</b>	<b>39.1843</b>	<b>6.0600e-003</b>	<b>0.0000</b>	<b>39.3359</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-003	5.7000e-003	0.0654	2.7000e-004	0.0331	1.9000e-004	0.0333	8.8000e-003	1.8000e-004	8.9800e-003	0.0000	24.6160	24.6160	3.9000e-004	0.0000	24.6259
<b>Total</b>	<b>9.6000e-003</b>	<b>5.7000e-003</b>	<b>0.0654</b>	<b>2.7000e-004</b>	<b>0.0331</b>	<b>1.9000e-004</b>	<b>0.0333</b>	<b>8.8000e-003</b>	<b>1.8000e-004</b>	<b>8.9800e-003</b>	<b>0.0000</b>	<b>24.6160</b>	<b>24.6160</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>24.6259</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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<b>Total</b>	<b>0.0102</b>	<b>0.1348</b>	<b>0.2063</b>	<b>3.1000e-004</b>		<b>4.7900e-003</b>	<b>4.7900e-003</b>		<b>4.4100e-003</b>	<b>4.4100e-003</b>	<b>0.0000</b>	<b>27.2251</b>	<b>27.2251</b>	<b>8.8100e-003</b>	<b>0.0000</b>	<b>27.4453</b>
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**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	1.4000e-003	8.7000e-004	9.7000e-003	4.0000e-005	4.5700e-003	3.0000e-005	4.5900e-003	1.2200e-003	3.0000e-005	1.2400e-003	0.0000	3.5327	3.5327	6.0000e-005	0.0000	3.5342
<b>Total</b>	<b>1.4000e-003</b>	<b>8.7000e-004</b>	<b>9.7000e-003</b>	<b>4.0000e-005</b>	<b>4.5700e-003</b>	<b>3.0000e-005</b>	<b>4.5900e-003</b>	<b>1.2200e-003</b>	<b>3.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.5327</b>	<b>3.5327</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>3.5342</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9100e-003	0.0623	0.2348	3.1000e-004		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	27.2251	27.2251	8.8100e-003	0.0000	27.4452
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.9100e-003</b>	<b>0.0623</b>	<b>0.2348</b>	<b>3.1000e-004</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>27.2251</b>	<b>27.2251</b>	<b>8.8100e-003</b>	<b>0.0000</b>	<b>27.4452</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-003	8.7000e-004	9.7000e-003	4.0000e-005	4.5700e-003	3.0000e-005	4.5900e-003	1.2200e-003	3.0000e-005	1.2400e-003	0.0000	3.5327	3.5327	6.0000e-005	0.0000	3.5342
<b>Total</b>	<b>1.4000e-003</b>	<b>8.7000e-004</b>	<b>9.7000e-003</b>	<b>4.0000e-005</b>	<b>4.5700e-003</b>	<b>3.0000e-005</b>	<b>4.5900e-003</b>	<b>1.2200e-003</b>	<b>3.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.5327</b>	<b>3.5327</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>3.5342</b>

### 3.8 Site Improvements - 2023

#### 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0162	0.1442	0.2071	3.2000e-004		7.1400e-003	7.1400e-003		6.8300e-003	6.8300e-003	0.0000	27.6631	27.6631	5.1900e-003	0.0000	27.7928
<b>Total</b>	<b>0.0162</b>	<b>0.1442</b>	<b>0.2071</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>7.1400e-003</b>	<b>7.1400e-003</b>	<b>0.0000</b>	<b>6.8300e-003</b>	<b>6.8300e-003</b>	<b>0.0000</b>	<b>27.6631</b>	<b>27.6631</b>	<b>5.1900e-003</b>	<b>0.0000</b>	<b>27.7928</b>

#### Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-003	4.1600e-003	0.0476	2.0000e-004	0.0241	1.4000e-004	0.0242	6.4100e-003	1.3000e-004	6.5400e-003	0.0000	17.9345	17.9345	2.9000e-004	0.0000	17.9417
<b>Total</b>	<b>7.0000e-003</b>	<b>4.1600e-003</b>	<b>0.0476</b>	<b>2.0000e-004</b>	<b>0.0241</b>	<b>1.4000e-004</b>	<b>0.0242</b>	<b>6.4100e-003</b>	<b>1.3000e-004</b>	<b>6.5400e-003</b>	<b>0.0000</b>	<b>17.9345</b>	<b>17.9345</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>17.9417</b>

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5300e-003	0.0153	0.2178	3.2000e-004		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	27.6631	27.6631	5.1900e-003	0.0000	27.7928
<b>Total</b>	<b>3.5300e-003</b>	<b>0.0153</b>	<b>0.2178</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>27.6631</b>	<b>27.6631</b>	<b>5.1900e-003</b>	<b>0.0000</b>	<b>27.7928</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-003	4.1600e-003	0.0476	2.0000e-004	0.0241	1.4000e-004	0.0242	6.4100e-003	1.3000e-004	6.5400e-003	0.0000	17.9345	17.9345	2.9000e-004	0.0000	17.9417

<b>Total</b>	<b>7.0000e-003</b>	<b>4.1600e-003</b>	<b>0.0476</b>	<b>2.0000e-004</b>	<b>0.0241</b>	<b>1.4000e-004</b>	<b>0.0242</b>	<b>6.4100e-003</b>	<b>1.3000e-004</b>	<b>6.5400e-003</b>	<b>0.0000</b>	<b>17.9345</b>	<b>17.9345</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>17.9417</b>
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### 3.9 Building Exterior Final Closeout - 2023

#### 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	0.9620					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0112	0.1041	0.2175	3.4000e-004		4.2500e-003	4.2500e-003		3.9100e-003	3.9100e-003	0.0000	30.0607	30.0607	9.7200e-003	0.0000	30.3038
<b>Total</b>	<b>0.9731</b>	<b>0.1041</b>	<b>0.2175</b>	<b>3.4000e-004</b>		<b>4.2500e-003</b>	<b>4.2500e-003</b>		<b>3.9100e-003</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>30.0607</b>	<b>30.0607</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.3038</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8600e-003	4.0700e-003	0.0467	1.9000e-004	0.0236	1.4000e-004	0.0238	6.2800e-003	1.3000e-004	6.4100e-003	0.0000	17.5829	17.5829	2.8000e-004	0.0000	17.5899
<b>Total</b>	<b>6.8600e-003</b>	<b>4.0700e-003</b>	<b>0.0467</b>	<b>1.9000e-004</b>	<b>0.0236</b>	<b>1.4000e-004</b>	<b>0.0238</b>	<b>6.2800e-003</b>	<b>1.3000e-004</b>	<b>6.4100e-003</b>	<b>0.0000</b>	<b>17.5829</b>	<b>17.5829</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>17.5899</b>

#### 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	0.9620					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2400e-003	0.0610	0.2596	3.4000e-004		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	30.0607	30.0607	9.7200e-003	0.0000	30.3037
<b>Total</b>	<b>0.9672</b>	<b>0.0610</b>	<b>0.2596</b>	<b>3.4000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>30.0607</b>	<b>30.0607</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.3037</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8600e-003	4.0700e-003	0.0467	1.9000e-004	0.0236	1.4000e-004	0.0238	6.2800e-003	1.3000e-004	6.4100e-003	0.0000	17.5829	17.5829	2.8000e-004	0.0000	17.5899
<b>Total</b>	<b>6.8600e-003</b>	<b>4.0700e-003</b>	<b>0.0467</b>	<b>1.9000e-004</b>	<b>0.0236</b>	<b>1.4000e-004</b>	<b>0.0238</b>	<b>6.2800e-003</b>	<b>1.3000e-004</b>	<b>6.4100e-003</b>	<b>0.0000</b>	<b>17.5829</b>	<b>17.5829</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>17.5899</b>

## 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	0.3792	1.0582	4.2298	0.0149	1.4435	0.0120	1.4555	0.3880	0.0111	0.3991	0.0000	1,365.7514	1,365.7514	0.0491	0.0000	1,366.9777
Unmitigated	0.3792	1.0582	4.2298	0.0149	1.4435	0.0120	1.4555	0.3880	0.0111	0.3991	0.0000	1,365.7514	1,365.7514	0.0491	0.0000	1,366.9777

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	1,420.40	1,420.40	1420.40	3,394,405	3,394,405
Strip Mall	323.83	323.83	323.83	498,713	498,713
Total	1,744.23	1,744.23	1,744.23	3,893,118	3,893,118

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.470625	0.050338	0.265549	0.140745	0.017339	0.006996	0.024054	0.006595	0.004215	0.003104	0.009159	0.000488	0.000793
General Office Building	0.470625	0.050338	0.265549	0.140745	0.017339	0.006996	0.024054	0.006595	0.004215	0.003104	0.009159	0.000488	0.000793
Strip Mall	0.470625	0.050338	0.265549	0.140745	0.017339	0.006996	0.024054	0.006595	0.004215	0.003104	0.009159	0.000488	0.000793

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	191.5016	191.5016	0.0307	6.3500e-003	194.1604
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	192.3226	192.3226	0.0308	6.3800e-003	194.9928
NaturalGas Mitigated	0.8165	7.4230	6.2353	0.0445		0.5642	0.5642		0.5642	0.5642	0.0000	8,080.8094	8,080.8094	0.1549	0.1482	8,128.8297
NaturalGas Unmitigated	0.8165	7.4230	6.2353	0.0445		0.5642	0.5642		0.5642	0.5642	0.0000	8,080.8094	8,080.8094	0.1549	0.1482	8,128.8297

### 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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.21166e+008	0.6534	5.9395	4.9892	0.0356		0.4514	0.4514		0.4514	0.4514	0.0000	6,465.8872	6,465.8872	0.1239	0.1185	6,504.3107
Strip Mall	3.02625e+007	0.1632	1.4835	1.2461	8.9000e-003		0.1127	0.1127		0.1127	0.1127	0.0000	1,614.9223	1,614.9223	0.0310	0.0296	1,624.5189

<b>Total</b>		<b>0.8165</b>	<b>7.4230</b>	<b>6.2353</b>	<b>0.0445</b>		<b>0.5641</b>	<b>0.5641</b>		<b>0.5641</b>	<b>0.5641</b>	<b>0.0000</b>	<b>8,080.8094</b>	<b>8,080.8094</b>	<b>0.1549</b>	<b>0.1482</b>	<b>8,128.8297</b>
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**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.21166e+008	0.6534	5.9395	4.9892	0.0356		0.4514	0.4514		0.4514	0.4514	0.0000	6,465.8872	6,465.8872	0.1239	0.1185	6,504.3107
Strip Mall	3.02625e+007	0.1632	1.4835	1.2461	8.9000e-003		0.1127	0.1127		0.1127	0.1127	0.0000	1,614.9223	1,614.9223	0.0310	0.0296	1,624.5189
<b>Total</b>		<b>0.8165</b>	<b>7.4230</b>	<b>6.2353</b>	<b>0.0445</b>		<b>0.5641</b>	<b>0.5641</b>		<b>0.5641</b>	<b>0.5641</b>	<b>0.0000</b>	<b>8,080.8094</b>	<b>8,080.8094</b>	<b>0.1549</b>	<b>0.1482</b>	<b>8,128.8297</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	468160	38.4360	6.1600e-003	1.2700e-003	38.9697
General Office Building	996625	81.8231	0.0131	2.7100e-003	82.9592
Strip Mall	877750	72.0635	0.0116	2.3900e-003	73.0640
<b>Total</b>		<b>192.3226</b>	<b>0.0308</b>	<b>6.3700e-003</b>	<b>194.9928</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	464827	38.1624	6.1100e-003	1.2700e-003	38.6922
General Office Building	993292	81.5495	0.0131	2.7000e-003	82.6817
Strip Mall	874417	71.7898	0.0115	2.3800e-003	72.7865
<b>Total</b>		<b>191.5016</b>	<b>0.0307</b>	<b>6.3500e-003</b>	<b>194.1604</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8068	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.2100e-003	8.2100e-003	2.0000e-005	0.0000	8.7500e-003
Unmitigated	0.8068	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.2100e-003	8.2100e-003	2.0000e-005	0.0000	8.7500e-003

### 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	0.0962					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7102					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.2100e-003	8.2100e-003	2.0000e-005	0.0000	8.7500e-003
<b>Total</b>	<b>0.8068</b>	<b>4.0000e-005</b>	<b>4.2200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.7500e-003</b>

### 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	0.0962					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7102					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.2100e-003	8.2100e-003	2.0000e-005	0.0000	8.7500e-003
<b>Total</b>	<b>0.8068</b>	<b>4.0000e-005</b>	<b>4.2200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.7500e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.9601	0.2985	7.1700e-003	16.5578
Unmitigated	6.9601	0.2985	7.1700e-003	16.5578

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	4.59 / 0	3.4953	0.1499	3.6000e-003	8.3151
Strip Mall	4.55 / 0	3.4648	0.1486	3.5700e-003	8.2427
<b>Total</b>		<b>6.9601</b>	<b>0.2985</b>	<b>7.1700e-003</b>	<b>16.5578</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000

General Office Building	4.59 / 0	3.4953	0.1499	3.6000e-003	8.3151
Strip Mall	4.55 / 0	3.4648	0.1486	3.5700e-003	8.2427
<b>Total</b>		<b>6.9601</b>	<b>0.2985</b>	<b>7.1700e-003</b>	<b>16.5578</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.2969	1.6723	0.0000	70.1045
Unmitigated	28.2969	1.6723	0.0000	70.1045

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	129	26.1858	1.5475	0.0000	64.8743



Strip Mall	10.4	2.1111	0.1248	0.0000	5.2302
<b>Total</b>		<b>28.2969</b>	<b>1.6723</b>	<b>0.0000</b>	<b>70.1045</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	129	26.1858	1.5475	0.0000	64.8743
Strip Mall	10.4	2.1111	0.1248	0.0000	5.2302
<b>Total</b>		<b>28.2969</b>	<b>1.6723</b>	<b>0.0000</b>	<b>70.1045</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	18	335	0.73	Diesel

**Boilers**

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

Equipment Type	Number
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### 10.1 Stationary Sources

#### Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (200,000 HP)	4.9500e-003	0.0138	0.0126	2.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	2.2962	2.2962	3.2000e-004	0.0000	2.3043
<b>Total</b>	<b>4.9500e-003</b>	<b>0.0138</b>	<b>0.0126</b>	<b>2.0000e-005</b>		<b>7.3000e-004</b>	<b>7.3000e-004</b>		<b>7.3000e-004</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>2.2962</b>	<b>2.2962</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>2.3043</b>

### 11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-6.3720	0.0000	0.0000	-6.3720

### 11.2 Net New Trees

#### Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	-9	-6.3720	0.0000	0.0000	-6.3720
<b>Total</b>		<b>-6.3720</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-6.3720</b>

220 Park Road - San Mateo County, Winter

**220 Park Road**  
**San Mateo County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	167.50	1000sqft	3.85	167,500.00	0
Enclosed Parking with Elevator	280.00	Space	2.52	112,000.00	0
Strip Mall	11.91	1000sqft	0.27	12,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	5			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	181	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Electricity is assumed to be PG&E for 2023, interpolated based on RPS milestones.

Land Use - Project Description details

Construction Phase - Data from Project Proponent

Off-road Equipment - Data from Project Proponent

Off-road Equipment - Data from Project Proponent

Off-road Equipment - Data from Project Proponent - Water truck modeled separately.

Off-road Equipment - Data from Project Proponent - Water Trucks Modeled Separately

Off-road Equipment - Data from Project Proponent - Electric Scissor Lift not included.

Off-road Equipment - Data from Project Proponent

Off-road Equipment - Data from Project Proponent.

Off-road Equipment - Data from Project Proponent

Trips and VMT - Data from Project Proponent. Non-default vendor trips are for water trucks. Assumes 8 hours of travel at 15 miles per hour. Soil disposal sites are 25 miles away.

Demolition - Data from Project Proponent. 115 + 20 + 2,200 + 400

Grading - Data from Project Proponent

Vehicle Trips - Trip rates from Transportation Impact Analysis 7/14/2020, including transit trip reduction and internalization. Office trips of 1,189 for 140.2

Energy Use - Data from project proponent: 2.3 million kWh, 1.5 million therms. Default proportions maintained.

Water And Wastewater - Water consumption data provided by civil engineers. Conservatively assumed all indoor water.

Solid Waste - Based on Project Proponent Data - 2.68 tons/week landfilled = 139 tons/year. Default proportions maintained.

Land Use Change -

Sequestration - Assumes worst-case: 14 trees removed, 5 trees planted.

Construction Off-road Equipment Mitigation - Mitigation - Tier 4 engines

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - 250 kw generator, converted to horsepower assuming 0.746 kw per hp. Operational hours provided by project proponent

Stationary Sources - Process Boilers -

On-road Fugitive Dust - ...

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	20.00	72.00
tblConstructionPhase	NumDays	20.00	67.00
tblConstructionPhase	NumDays	230.00	45.00
tblConstructionPhase	NumDays	230.00	252.00
tblConstructionPhase	NumDays	20.00	58.00
tblConstructionPhase	NumDays	10.00	51.00
tblConstructionPhase	NumDays	20.00	100.00
tblEnergyUse	LightingElect	1.75	1.25

tblEnergyUse	LightingElect	3.58	1.71
tblEnergyUse	LightingElect	4.88	32.70
tblEnergyUse	NT24E	0.19	0.14
tblEnergyUse	NT24E	4.80	2.29
tblEnergyUse	NT24E	3.36	22.51
tblEnergyUse	NT24NG	1.01	37.80
tblEnergyUse	NT24NG	0.70	368.41
tblEnergyUse	T24E	3.92	2.79
tblEnergyUse	T24E	4.10	1.95
tblEnergyUse	T24E	2.24	15.01
tblEnergyUse	T24NG	18.32	685.58
tblEnergyUse	T24NG	3.90	2,052.59
tblGrading	AcresOfGrading	33.50	1.25
tblGrading	MaterialExported	0.00	60,000.00
tblLandUse	LandUseSquareFeet	11,910.00	12,500.00
tblOffRoadEquipment	HorsePower	158.00	273.00
tblOffRoadEquipment	HorsePower	158.00	273.00
tblOffRoadEquipment	HorsePower	97.00	204.00
tblOffRoadEquipment	HorsePower	221.00	275.00
tblOffRoadEquipment	HorsePower	212.00	173.00
tblOffRoadEquipment	HorsePower	100.00	110.00
tblOffRoadEquipment	HorsePower	100.00	110.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Building Structure / Exterior Systems
tblOffRoadEquipment	PhaseName		Building Exterior Final Closeout
tblOffRoadEquipment	PhaseName		Excavation/Shoring/Grading
tblOffRoadEquipment	PhaseName		Excavation/Shoring/Grading
tblOffRoadEquipment	PhaseName		Site Improvements
tblOffRoadEquipment	PhaseName		Excavation/Shoring/Grading
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Building Structure / Exterior Systems
tblOffRoadEquipment	PhaseName		Building Exterior Final Closeout
tblOffRoadEquipment	PhaseName		Excavation/Shoring/Grading
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Building Structure / Exterior Systems
tblOffRoadEquipment	PhaseName		Historic Building Temporary Relocation



tblOffRoadEquipment	PhaseName		Historic Building Back in Place / Restoration
tblOffRoadEquipment	PhaseName		Historic Building Temporary Relocation
tblOffRoadEquipment	PhaseName		Historic Building Temporary Relocation
tblOffRoadEquipment	PhaseName		Historic Building Back in Place / Restoration
tblOffRoadEquipment	PhaseName		Historic Building Back in Place / Restoration
tblOffRoadEquipment	PhaseName		Demo/Clear
tblOffRoadEquipment	PhaseName		Excavation/Shoring/Grading
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	181
tblSequestration	NumberOfNewTrees	0.00	-9.00
tblSolidWaste	SolidWasteGenerationRate	155.78	129.00
tblSolidWaste	SolidWasteGenerationRate	12.51	10.40
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripNumber	270.00	60.00
tblTripsAndVMT	HaulingTripNumber	7,500.00	5,515.00
tblTripsAndVMT	VendorTripLength	7.30	120.00
tblTripsAndVMT	VendorTripLength	7.30	120.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	48.00	0.00
tblTripsAndVMT	VendorTripNumber	48.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	105.00	90.00
tblTripsAndVMT	WorkerTripNumber	105.00	200.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	120.00
tblTripsAndVMT	WorkerTripNumber	21.00	60.00

tblVehicleTrips	ST_TR	2.46	8.48
tblVehicleTrips	ST_TR	42.04	27.19
tblVehicleTrips	SU_TR	1.05	8.48
tblVehicleTrips	SU_TR	20.43	27.19
tblVehicleTrips	WD_TR	11.03	8.48
tblVehicleTrips	WD_TR	44.32	27.19
tblWater	IndoorWaterUseRate	29,770,402.79	4,590,000.00
tblWater	IndoorWaterUseRate	882,203.73	4,550,000.00
tblWater	OutdoorWaterUseRate	18,246,375.90	0.00
tblWater	OutdoorWaterUseRate	540,705.51	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					
2021	3.5371	62.7113	37.3185	0.1732	3.2140	1.1584	4.3725	0.8583	1.0705	1.9288	0.0000	18,693.1575	18,693.1575	3.4290	0.0000	18,778.8821
2022	3.2171	55.1978	37.6102	0.1706	26.6766	0.9707	27.6473	6.6174	0.8973	7.5146	0.0000	18,459.5175	18,459.5175	3.4473	0.0000	18,545.6990
2023	19.6171	8.8056	16.0830	0.0344	1.6430	0.4167	2.0596	0.4358	0.4044	0.8402	0.0000	3,344.0754	3,344.0754	0.3388	0.0000	3,352.5449
<b>Maximum</b>	<b>19.6171</b>	<b>62.7113</b>	<b>37.6102</b>	<b>0.1732</b>	<b>26.6766</b>	<b>1.1584</b>	<b>27.6473</b>	<b>6.6174</b>	<b>1.0705</b>	<b>7.5146</b>	<b>0.0000</b>	<b>18,693.1575</b>	<b>18,693.1575</b>	<b>3.4473</b>	<b>0.0000</b>	<b>18,778.8821</b>

#### 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					
2021	1.9962	43.4239	48.4805	0.1732	3.1475	0.2252	3.3727	0.8487	0.2194	1.0681	0.0000	18,693.1575	18,693.1575	3.4290	0.0000	18,778.8821
2022	1.9364	40.0987	49.0570	0.1706	26.6100	0.2092	26.8191	6.6078	0.2040	6.8118	0.0000	18,459.5175	18,459.5175	3.4473	0.0000	18,545.6990
2023	19.4987	2.1664	17.6606	0.0344	1.6430	0.0405	1.6835	0.4358	0.0398	0.4756	0.0000	3,344.0754	3,344.0754	0.3388	0.0000	3,352.5449
<b>Maximum</b>	<b>19.4987</b>	<b>43.4239</b>	<b>49.0570</b>	<b>0.1732</b>	<b>26.6100</b>	<b>0.2252</b>	<b>26.8191</b>	<b>6.6078</b>	<b>0.2194</b>	<b>6.8118</b>	<b>0.0000</b>	<b>18,693.1575</b>	<b>18,693.1575</b>	<b>3.4473</b>	<b>0.0000</b>	<b>18,778.8821</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>11.15</b>	<b>32.38</b>	<b>-26.57</b>	<b>0.00</b>	<b>0.42</b>	<b>81.35</b>	<b>6.47</b>	<b>0.24</b>	<b>80.47</b>	<b>18.75</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## 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	4.4231	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1005	0.1005	2.6000e-004		0.1071
Energy	4.4741	40.6738	34.1660	0.2440		3.0912	3.0912		3.0912	3.0912		48,808.5899	48,808.5899	0.9355	0.8948	49,098.6349
Mobile	2.0994	5.9903	24.3509	0.0817	8.2705	0.0659	8.3364	2.2148	0.0614	2.2762		8,250.5214	8,250.5214	0.3029		8,258.0931
Stationary	0.2749	0.7683	0.7009	1.3200e-003		0.0404	0.0404		0.0404	0.0404		140.6186	140.6186	0.0197		141.1115
<b>Total</b>	<b>11.2715</b>	<b>47.4328</b>	<b>59.2647</b>	<b>0.3271</b>	<b>8.2705</b>	<b>3.1977</b>	<b>11.4682</b>	<b>2.2148</b>	<b>3.1932</b>	<b>5.4080</b>		<b>57,199.8304</b>	<b>57,199.8304</b>	<b>1.2583</b>	<b>0.8948</b>	<b>57,497.9466</b>

### 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	4.4231	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1005	0.1005	2.6000e-004		0.1071
Energy	4.4741	40.6738	34.1660	0.2440		3.0912	3.0912		3.0912	3.0912		48,808.5899	48,808.5899	0.9355	0.8948	49,098.6349
Mobile	2.0994	5.9903	24.3509	0.0817	8.2705	0.0659	8.3364	2.2148	0.0614	2.2762		8,250.5214	8,250.5214	0.3029		8,258.0931
Stationary	0.2749	0.7683	0.7009	1.3200e-003		0.0404	0.0404		0.0404	0.0404		140.6186	140.6186	0.0197		141.1115
<b>Total</b>	<b>11.2715</b>	<b>47.4328</b>	<b>59.2647</b>	<b>0.3271</b>	<b>8.2705</b>	<b>3.1977</b>	<b>11.4682</b>	<b>2.2148</b>	<b>3.1932</b>	<b>5.4080</b>		<b>57,199.8304</b>	<b>57,199.8304</b>	<b>1.2583</b>	<b>0.8948</b>	<b>57,497.9466</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Demo/Clear	Demolition	4/1/2021	6/16/2021	5	55	
2	Historic Building Temporary Relocation	Demolition	6/17/2021	9/24/2021	5	72	
3	Excavation/Shoring/Grading	Grading	10/7/2021	1/8/2022	5	67	
4	Foundation	Building Construction	1/9/2022	3/11/2022	5	45	
5	Building Structure / Exterior Systems	Building Construction	3/14/2022	2/28/2023	5	252	
6	Historic Building Back in Place / Restoration	Paving	10/5/2022	12/23/2022	5	58	
7	Site Improvements	Site Preparation	3/22/2023	5/31/2023	5	51	
8	Building Exterior Final Closeout	Architectural Coating	6/1/2023	10/18/2023	5	100	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.52

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 270,000; Non-Residential Outdoor: 90,000; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demo/Clear	Excavators	1	8.00	273	0.38
Demo/Clear	Sweepers/Scrubbers	1	8.00	64	0.46
Historic Building Temporary Relocation	Rough Terrain Forklifts	2	8.00	110	0.40
Historic Building Temporary Relocation	Skid Steer Loaders	1	8.00	65	0.37
Historic Building Temporary Relocation	Skid Steer Loaders	1	4.00	65	0.37
Excavation/Shoring/Grading	Bore/Drill Rigs	2	8.00	221	0.50
Excavation/Shoring/Grading	Bore/Drill Rigs	1	8.00	275	0.50
Excavation/Shoring/Grading	Crawler Tractors	1	8.00	173	0.43
Excavation/Shoring/Grading	Excavators	1	8.00	273	0.38
Excavation/Shoring/Grading	Forklifts	1	8.00	89	0.20
Excavation/Shoring/Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Excavation/Shoring/Grading	Tractors/Loaders/Backhoes	1	8.00	204	0.37
Foundation	Cranes	1	8.00	231	0.29
Foundation	Excavators	1	8.00	158	0.38
Foundation	Forklifts	1	8.00	89	0.20
Foundation	Pumps	1	8.00	84	0.74
Buliding Structure / Exterior Systems	Aerial Lifts	1	8.00	63	0.31
Buliding Structure / Exterior Systems	Excavators	1	8.00	158	0.38
Buliding Structure / Exterior Systems	Forklifts	1	8.00	89	0.20
Buliding Structure / Exterior Systems	Generator Sets	1	8.00	84	0.74
Buliding Structure / Exterior Systems	Pumps	1	8.00	84	0.74
Historic Building Back in Place / Restoration	Rough Terrain Forklifts	2	8.00	110	0.40
Historic Building Back in Place / Restoration	Skid Steer Loaders	1	8.00	65	0.37
Historic Building Back in Place / Restoration	Skid Steer Loaders	1	4.00	65	0.37

Site Improvements	Concrete/Industrial Saws	1	8.00	81	0.73
Site Improvements	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Exterior Final Closeout	Aerial Lifts	1	8.00	63	0.31
Building Exterior Final Closeout	Excavators	1	8.00	158	0.38

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demo/Clear	2	20.00	1.00	60.00	10.80	120.00	35.00	LD_Mix	HDT_Mix	HHDT
Historic Building Temporary Relocation	4	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Excavation/Shoring/Grading	8	40.00	1.00	5,515.00	10.80	120.00	35.00	LD_Mix	HDT_Mix	HHDT
Foundation	4	90.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Structure / Exterior Systems	6	200.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Historic Building Back in Place / Restoration	4	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Improvements	3	120.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Exterior Final Closeout	3	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demo/Clear - 2021

#### Unmitigated Construction On-Site

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

Fugitive Dust					1.0641	0.0000	1.0641	0.1611	0.0000	0.1611			0.0000			0.0000
Off-Road	0.4901	4.4938	3.9413	0.0114		0.2329	0.2329		0.2142	0.2142		1,105.4134	1,105.4134	0.3575		1,114.3513
<b>Total</b>	<b>0.4901</b>	<b>4.4938</b>	<b>3.9413</b>	<b>0.0114</b>	<b>1.0641</b>	<b>0.2329</b>	<b>1.2970</b>	<b>0.1611</b>	<b>0.2142</b>	<b>0.3754</b>		<b>1,105.4134</b>	<b>1,105.4134</b>	<b>0.3575</b>		<b>1,114.3513</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0149	0.5055	0.2455	1.4600e-003	0.0331	1.6800e-003	0.0348	9.0700e-003	1.6100e-003	0.0107		166.2180	166.2180	0.0215		166.7560
Vendor	0.0320	0.9016	0.4133	3.7500e-003	0.1106	3.3700e-003	0.1139	0.0318	3.2200e-003	0.0350		411.7797	411.7797	0.0336		412.6200
Worker	0.0573	0.0361	0.3696	1.3900e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		138.8517	138.8517	2.5400e-003		138.9151
<b>Total</b>	<b>0.1041</b>	<b>1.4431</b>	<b>1.0284</b>	<b>6.6000e-003</b>	<b>0.3080</b>	<b>6.0100e-003</b>	<b>0.3140</b>	<b>0.0844</b>	<b>5.7100e-003</b>	<b>0.0901</b>		<b>716.8494</b>	<b>716.8494</b>	<b>0.0577</b>		<b>718.2911</b>

**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					0.4789	0.0000	0.4789	0.0725	0.0000	0.0725			0.0000			0.0000
Off-Road	0.1721	1.8984	5.9464	0.0114		0.0188	0.0188		0.0188	0.0188	0.0000	1,105.4134	1,105.4134	0.3575		1,114.3513
<b>Total</b>	<b>0.1721</b>	<b>1.8984</b>	<b>5.9464</b>	<b>0.0114</b>	<b>0.4789</b>	<b>0.0188</b>	<b>0.4976</b>	<b>0.0725</b>	<b>0.0188</b>	<b>0.0913</b>	<b>0.0000</b>	<b>1,105.4134</b>	<b>1,105.4134</b>	<b>0.3575</b>		<b>1,114.3513</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0149	0.5055	0.2455	1.4600e-003	0.0331	1.6800e-003	0.0348	9.0700e-003	1.6100e-003	0.0107		166.2180	166.2180	0.0215		166.7560
Vendor	0.0320	0.9016	0.4133	3.7500e-003	0.1106	3.3700e-003	0.1139	0.0318	3.2200e-003	0.0350		411.7797	411.7797	0.0336		412.6200
Worker	0.0573	0.0361	0.3696	1.3900e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		138.8517	138.8517	2.5400e-003		138.9151
<b>Total</b>	<b>0.1041</b>	<b>1.4431</b>	<b>1.0284</b>	<b>6.6000e-003</b>	<b>0.3080</b>	<b>6.0100e-003</b>	<b>0.3140</b>	<b>0.0844</b>	<b>5.7100e-003</b>	<b>0.0901</b>		<b>716.8494</b>	<b>716.8494</b>	<b>0.0577</b>		<b>718.2911</b>

**3.3 Historic Building Temporary Relocation - 2021**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3843	5.0523	7.1321	0.0107		0.1987	0.1987		0.1828	0.1828		1,034.5900	1,034.5900	0.3346		1,042.9552
<b>Total</b>	<b>0.3843</b>	<b>5.0523</b>	<b>7.1321</b>	<b>0.0107</b>	<b>0.0000</b>	<b>0.1987</b>	<b>0.1987</b>	<b>0.0000</b>	<b>0.1828</b>	<b>0.1828</b>		<b>1,034.5900</b>	<b>1,034.5900</b>	<b>0.3346</b>		<b>1,042.9552</b>

**Unmitigated Construction Off-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0573	0.0361	0.3696	1.3900e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		138.8517	138.8517	2.5400e-003		138.9151
<b>Total</b>	<b>0.0573</b>	<b>0.0361</b>	<b>0.3696</b>	<b>1.3900e-003</b>	<b>0.1643</b>	<b>9.6000e-004</b>	<b>0.1653</b>	<b>0.0436</b>	<b>8.8000e-004</b>	<b>0.0445</b>		<b>138.8517</b>	<b>138.8517</b>	<b>2.5400e-003</b>		<b>138.9151</b>

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1695	2.1469	8.0967	0.0107		0.0175	0.0175		0.0175	0.0175	0.0000	1,034.5900	1,034.5900	0.3346		1,042.9552
<b>Total</b>	<b>0.1695</b>	<b>2.1469</b>	<b>8.0967</b>	<b>0.0107</b>	<b>0.0000</b>	<b>0.0175</b>	<b>0.0175</b>	<b>0.0000</b>	<b>0.0175</b>	<b>0.0175</b>	<b>0.0000</b>	<b>1,034.5900</b>	<b>1,034.5900</b>	<b>0.3346</b>		<b>1,042.9552</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0573	0.0361	0.3696	1.3900e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		138.8517	138.8517	2.5400e-003		138.9151
<b>Total</b>	<b>0.0573</b>	<b>0.0361</b>	<b>0.3696</b>	<b>1.3900e-003</b>	<b>0.1643</b>	<b>9.6000e-004</b>	<b>0.1653</b>	<b>0.0436</b>	<b>8.8000e-004</b>	<b>0.0445</b>		<b>138.8517</b>	<b>138.8517</b>	<b>2.5400e-003</b>		<b>138.9151</b>

### 3.4 Excavation/Shoring/Grading - 2021

#### 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					0.1211	0.0000	0.1211	0.0175	0.0000	0.0175			0.0000			0.0000
Off-Road	2.2699	23.5987	17.6395	0.0564		1.0262	1.0262		0.9441	0.9441		5,461.8672	5,461.8672	1.7665		5,506.0291
<b>Total</b>	<b>2.2699</b>	<b>23.5987</b>	<b>17.6395</b>	<b>0.0564</b>	<b>0.1211</b>	<b>1.0262</b>	<b>1.1473</b>	<b>0.0175</b>	<b>0.9441</b>	<b>0.9616</b>		<b>5,461.8672</b>	<b>5,461.8672</b>	<b>1.7665</b>		<b>5,506.0291</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1207	38.1389	18.5266	0.1102	2.6538	0.1269	2.7808	0.7219	0.1214	0.8433		12,541.8073	12,541.8073	1.6238		12,582.4027
Vendor	0.0320	0.9016	0.4133	3.7500e-003	0.1106	3.3700e-003	0.1139	0.0318	3.2200e-003	0.0350		411.7797	411.7797	0.0336		412.6200
Worker	0.1145	0.0722	0.7393	2.7800e-003	0.3286	1.9200e-003	0.3305	0.0872	1.7700e-003	0.0889		277.7034	277.7034	5.0800e-003		277.8303
<b>Total</b>	<b>1.2673</b>	<b>39.1126</b>	<b>19.6791</b>	<b>0.1167</b>	<b>3.0930</b>	<b>0.1322</b>	<b>3.2252</b>	<b>0.8408</b>	<b>0.1264</b>	<b>0.9672</b>		<b>13,231.2904</b>	<b>13,231.2904</b>	<b>1.6625</b>		<b>13,272.8530</b>

**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					0.0545	0.0000	0.0545	7.8600e-003	0.0000	7.8600e-003			0.0000			0.0000
Off-Road	0.7289	4.3112	28.8015	0.0564		0.0930	0.0930		0.0930	0.0930	0.0000	5,461.8672	5,461.8672	1.7665		5,506.0291
<b>Total</b>	<b>0.7289</b>	<b>4.3112</b>	<b>28.8015</b>	<b>0.0564</b>	<b>0.0545</b>	<b>0.0930</b>	<b>0.1475</b>	<b>7.8600e-003</b>	<b>0.0930</b>	<b>0.1009</b>	<b>0.0000</b>	<b>5,461.8672</b>	<b>5,461.8672</b>	<b>1.7665</b>		<b>5,506.0291</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1207	38.1389	18.5266	0.1102	2.6538	0.1269	2.7808	0.7219	0.1214	0.8433		12,541.8073	12,541.8073	1.6238		12,582.4027
Vendor	0.0320	0.9016	0.4133	3.7500e-003	0.1106	3.3700e-003	0.1139	0.0318	3.2200e-003	0.0350		411.7797	411.7797	0.0336		412.6200
Worker	0.1145	0.0722	0.7393	2.7800e-003	0.3286	1.9200e-003	0.3305	0.0872	1.7700e-003	0.0889		277.7034	277.7034	5.0800e-003		277.8303
<b>Total</b>	<b>1.2673</b>	<b>39.1126</b>	<b>19.6791</b>	<b>0.1167</b>	<b>3.0930</b>	<b>0.1322</b>	<b>3.2252</b>	<b>0.8408</b>	<b>0.1264</b>	<b>0.9672</b>		<b>13,231.2904</b>	<b>13,231.2904</b>	<b>1.6625</b>		<b>13,272.8530</b>

**3.4 Excavation/Shoring/Grading - 2022**

**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					0.1211	0.0000	0.1211	0.0175	0.0000	0.0175			0.0000			0.0000
Off-Road	2.0096	19.4103	17.3547	0.0564		0.8546	0.8546		0.7862	0.7862		5,458.2711	5,458.2711	1.7653		5,502.4040
<b>Total</b>	<b>2.0096</b>	<b>19.4103</b>	<b>17.3547</b>	<b>0.0564</b>	<b>0.1211</b>	<b>0.8546</b>	<b>0.9757</b>	<b>0.0175</b>	<b>0.7862</b>	<b>0.8037</b>		<b>5,458.2711</b>	<b>5,458.2711</b>	<b>1.7653</b>		<b>5,502.4040</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0688	34.8948	19.1496	0.1078	26.1164	0.1113	26.2276	6.4810	0.1064	6.5874		12,326.9109	12,326.9109	1.6434		12,367.9951
Vendor	0.0304	0.8275	0.4190	3.6900e-003	0.1106	2.9700e-003	0.1135	0.0318	2.8400e-003	0.0346		406.7885	406.7885	0.0340		407.6386
Worker	0.1084	0.0651	0.6869	2.6800e-003	0.3286	1.8800e-003	0.3305	0.0872	1.7300e-003	0.0889		267.5470	267.5470	4.5700e-003		267.6613
<b>Total</b>	<b>1.2075</b>	<b>35.7875</b>	<b>20.2555</b>	<b>0.1142</b>	<b>26.5555</b>	<b>0.1161</b>	<b>26.6716</b>	<b>6.5999</b>	<b>0.1110</b>	<b>6.7109</b>		<b>13,001.2464</b>	<b>13,001.2464</b>	<b>1.6819</b>		<b>13,043.2950</b>

### 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					0.0545	0.0000	0.0545	7.8600e-003	0.0000	7.8600e-003			0.0000			0.0000

Off-Road	0.7289	4.3112	28.8015	0.0564		0.0930	0.0930		0.0930	0.0930	0.0000	5,458.2711	5,458.2711	1.7653		5,502.4040
<b>Total</b>	<b>0.7289</b>	<b>4.3112</b>	<b>28.8015</b>	<b>0.0564</b>	<b>0.0545</b>	<b>0.0930</b>	<b>0.1475</b>	<b>7.8600e-003</b>	<b>0.0930</b>	<b>0.1009</b>	<b>0.0000</b>	<b>5,458.2711</b>	<b>5,458.2711</b>	<b>1.7653</b>		<b>5,502.4040</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0688	34.8948	19.1496	0.1078	26.1164	0.1113	26.2276	6.4810	0.1064	6.5874		12,326.9109	12,326.9109	1.6434		12,367.9951
Vendor	0.0304	0.8275	0.4190	3.6900e-003	0.1106	2.9700e-003	0.1135	0.0318	2.8400e-003	0.0346		406.7885	406.7885	0.0340		407.6386
Worker	0.1084	0.0651	0.6869	2.6800e-003	0.3286	1.8800e-003	0.3305	0.0872	1.7300e-003	0.0889		267.5470	267.5470	4.5700e-003		267.6613
<b>Total</b>	<b>1.2075</b>	<b>35.7875</b>	<b>20.2555</b>	<b>0.1142</b>	<b>26.5555</b>	<b>0.1161</b>	<b>26.6716</b>	<b>6.5999</b>	<b>0.1110</b>	<b>6.7109</b>		<b>13,001.2464</b>	<b>13,001.2464</b>	<b>1.6819</b>		<b>13,043.2950</b>

**3.5 Foundation - 2022**

**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	1.0409	9.9850	10.0331	0.0190		0.4852	0.4852		0.4588	0.4588		1,829.9110	1,829.9110	0.4221		1,840.4641
<b>Total</b>	<b>1.0409</b>	<b>9.9850</b>	<b>10.0331</b>	<b>0.0190</b>		<b>0.4852</b>	<b>0.4852</b>		<b>0.4588</b>	<b>0.4588</b>		<b>1,829.9110</b>	<b>1,829.9110</b>	<b>0.4221</b>		<b>1,840.4641</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2439	0.1466	1.5456	6.0300e-003	0.7393	4.2300e-003	0.7436	0.1961	3.8900e-003	0.2000		601.9807	601.9807	0.0103		602.2379
<b>Total</b>	<b>0.2439</b>	<b>0.1466</b>	<b>1.5456</b>	<b>6.0300e-003</b>	<b>0.7393</b>	<b>4.2300e-003</b>	<b>0.7436</b>	<b>0.1961</b>	<b>3.8900e-003</b>	<b>0.2000</b>		<b>601.9807</b>	<b>601.9807</b>	<b>0.0103</b>		<b>602.2379</b>

**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	0.2190	0.9492	11.7353	0.0190		0.0292	0.0292		0.0292	0.0292	0.0000	1,829.9110	1,829.9110	0.4221		1,840.4641
<b>Total</b>	<b>0.2190</b>	<b>0.9492</b>	<b>11.7353</b>	<b>0.0190</b>		<b>0.0292</b>	<b>0.0292</b>		<b>0.0292</b>	<b>0.0292</b>	<b>0.0000</b>	<b>1,829.9110</b>	<b>1,829.9110</b>	<b>0.4221</b>		<b>1,840.4641</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2439	0.1466	1.5456	6.0300e-003	0.7393	4.2300e-003	0.7436	0.1961	3.8900e-003	0.2000		601.9807	601.9807	0.0103		602.2379
<b>Total</b>	<b>0.2439</b>	<b>0.1466</b>	<b>1.5456</b>	<b>6.0300e-003</b>	<b>0.7393</b>	<b>4.2300e-003</b>	<b>0.7436</b>	<b>0.1961</b>	<b>3.8900e-003</b>	<b>0.2000</b>		<b>601.9807</b>	<b>601.9807</b>	<b>0.0103</b>		<b>602.2379</b>

### 3.6 Buliding Structure / Exterior Systems - 2022

#### 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	1.0340	9.2892	12.9107	0.0215		0.4688	0.4688		0.4555	0.4555		2,056.7351	2,056.7351	0.3236		2,064.8246
<b>Total</b>	<b>1.0340</b>	<b>9.2892</b>	<b>12.9107</b>	<b>0.0215</b>		<b>0.4688</b>	<b>0.4688</b>		<b>0.4555</b>	<b>0.4555</b>		<b>2,056.7351</b>	<b>2,056.7351</b>	<b>0.3236</b>		<b>2,064.8246</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.5420	0.3257	3.4346	0.0134	1.6430	9.3900e-003	1.6523	0.4358	8.6500e-003	0.4444		1,337.7350	1,337.7350	0.0229		1,338.3065
<b>Total</b>	<b>0.5420</b>	<b>0.3257</b>	<b>3.4346</b>	<b>0.0134</b>	<b>1.6430</b>	<b>9.3900e-003</b>	<b>1.6523</b>	<b>0.4358</b>	<b>8.6500e-003</b>	<b>0.4444</b>		<b>1,337.7350</b>	<b>1,337.7350</b>	<b>0.0229</b>		<b>1,338.3065</b>

**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	0.2553	1.8708	14.4668	0.0215		0.0313	0.0313		0.0313	0.0313	0.0000	2,056.7351	2,056.7351	0.3236		2,064.8246
<b>Total</b>	<b>0.2553</b>	<b>1.8708</b>	<b>14.4668</b>	<b>0.0215</b>		<b>0.0313</b>	<b>0.0313</b>		<b>0.0313</b>	<b>0.0313</b>	<b>0.0000</b>	<b>2,056.7351</b>	<b>2,056.7351</b>	<b>0.3236</b>		<b>2,064.8246</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.5420	0.3257	3.4346	0.0134	1.6430	9.3900e-003	1.6523	0.4358	8.6500e-003	0.4444		1,337.7350	1,337.7350	0.0229		1,338.3065
<b>Total</b>	<b>0.5420</b>	<b>0.3257</b>	<b>3.4346</b>	<b>0.0134</b>	<b>1.6430</b>	<b>9.3900e-003</b>	<b>1.6523</b>	<b>0.4358</b>	<b>8.6500e-003</b>	<b>0.4444</b>		<b>1,337.7350</b>	<b>1,337.7350</b>	<b>0.0229</b>		<b>1,338.3065</b>

**3.6 Buliding Structure / Exterior Systems - 2023**



**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	0.9595	8.5100	12.8892	0.0215		0.4074	0.4074		0.3959	0.3959		2,056.8255	2,056.8255	0.3181			2,064.7786
<b>Total</b>	<b>0.9595</b>	<b>8.5100</b>	<b>12.8892</b>	<b>0.0215</b>		<b>0.4074</b>	<b>0.4074</b>		<b>0.3959</b>	<b>0.3959</b>		<b>2,056.8255</b>	<b>2,056.8255</b>	<b>0.3181</b>			<b>2,064.7786</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.5161	0.2956	3.1938	0.0129	1.6430	9.2500e-003	1.6522	0.4358	8.5100e-003	0.4443		1,287.2499	1,287.2499	0.0207			1,287.7662
<b>Total</b>	<b>0.5161</b>	<b>0.2956</b>	<b>3.1938</b>	<b>0.0129</b>	<b>1.6430</b>	<b>9.2500e-003</b>	<b>1.6522</b>	<b>0.4358</b>	<b>8.5100e-003</b>	<b>0.4443</b>		<b>1,287.2499</b>	<b>1,287.2499</b>	<b>0.0207</b>			<b>1,287.7662</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Off-Road	0.2553	1.8708	14.4668	0.0215		0.0313	0.0313		0.0313	0.0313	0.0000	2,056.8255	2,056.8255	0.3181		2,064.7786
<b>Total</b>	<b>0.2553</b>	<b>1.8708</b>	<b>14.4668</b>	<b>0.0215</b>		<b>0.0313</b>	<b>0.0313</b>		<b>0.0313</b>	<b>0.0313</b>	<b>0.0000</b>	<b>2,056.8255</b>	<b>2,056.8255</b>	<b>0.3181</b>		<b>2,064.7786</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.5161	0.2956	3.1938	0.0129	1.6430	9.2500e-003	1.6522	0.4358	8.5100e-003	0.4443		1,287.2499	1,287.2499	0.0207		1,287.7662
<b>Total</b>	<b>0.5161</b>	<b>0.2956</b>	<b>3.1938</b>	<b>0.0129</b>	<b>1.6430</b>	<b>9.2500e-003</b>	<b>1.6522</b>	<b>0.4358</b>	<b>8.5100e-003</b>	<b>0.4443</b>		<b>1,287.2499</b>	<b>1,287.2499</b>	<b>0.0207</b>		<b>1,287.7662</b>

**3.7 Historic Building Back in Place / Restoration - 2022**

**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	0.3505	4.6496	7.1152	0.0107		0.1653	0.1653		0.1521	0.1521		1,034.8467	1,034.8467	0.3347		1,043.2140
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

<b>Total</b>	<b>0.3505</b>	<b>4.6496</b>	<b>7.1152</b>	<b>0.0107</b>		<b>0.1653</b>	<b>0.1653</b>		<b>0.1521</b>	<b>0.1521</b>		<b>1,034.8467</b>	<b>1,034.8467</b>	<b>0.3347</b>		<b>1,043.2140</b>
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**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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Hauling	0.0000	0.0000	0.0000	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	0.0542	0.0326	0.3435	1.3400e-003	0.1643	9.4000e-004	0.1652	0.0436	8.6000e-004	0.0444		133.7735	133.7735	2.2900e-003		133.8307
<b>Total</b>	<b>0.0542</b>	<b>0.0326</b>	<b>0.3435</b>	<b>1.3400e-003</b>	<b>0.1643</b>	<b>9.4000e-004</b>	<b>0.1652</b>	<b>0.0436</b>	<b>8.6000e-004</b>	<b>0.0444</b>		<b>133.7735</b>	<b>133.7735</b>	<b>2.2900e-003</b>		<b>133.8307</b>

**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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Off-Road	0.1695	2.1469	8.0967	0.0107		0.0175	0.0175		0.0175	0.0175	0.0000	1,034.8467	1,034.8467	0.3347		1,043.2140
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1695</b>	<b>2.1469</b>	<b>8.0967</b>	<b>0.0107</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0175</b>	<b>0.0175</b>	<b>0.0000</b>	<b>1,034.8467</b>	<b>1,034.8467</b>	<b>0.3347</b>		<b>1,043.2140</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0542	0.0326	0.3435	1.3400e-003	0.1643	9.4000e-004	0.1652	0.0436	8.6000e-004	0.0444		133.7735	133.7735	2.2900e-003		133.8307
<b>Total</b>	<b>0.0542</b>	<b>0.0326</b>	<b>0.3435</b>	<b>1.3400e-003</b>	<b>0.1643</b>	<b>9.4000e-004</b>	<b>0.1652</b>	<b>0.0436</b>	<b>8.6000e-004</b>	<b>0.0444</b>		<b>133.7735</b>	<b>133.7735</b>	<b>2.2900e-003</b>		<b>133.8307</b>

### 3.8 Site Improvements - 2023

#### 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6364	5.6556	8.1200	0.0125		0.2799	0.2799		0.2678	0.2678		1,195.8187	1,195.8187	0.2243		1,201.4255
<b>Total</b>	<b>0.6364</b>	<b>5.6556</b>	<b>8.1200</b>	<b>0.0125</b>	<b>0.0000</b>	<b>0.2799</b>	<b>0.2799</b>	<b>0.0000</b>	<b>0.2678</b>	<b>0.2678</b>		<b>1,195.8187</b>	<b>1,195.8187</b>	<b>0.2243</b>		<b>1,201.4255</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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	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
Worker	0.3097	0.1774	1.9163	7.7400e-003	0.9858	5.5500e-003	0.9913	0.2615	5.1100e-003	0.2666		772.3500	772.3500	0.0124	772.6597
<b>Total</b>	<b>0.3097</b>	<b>0.1774</b>	<b>1.9163</b>	<b>7.7400e-003</b>	<b>0.9858</b>	<b>5.5500e-003</b>	<b>0.9913</b>	<b>0.2615</b>	<b>5.1100e-003</b>	<b>0.2666</b>		<b>772.3500</b>	<b>772.3500</b>	<b>0.0124</b>	<b>772.6597</b>

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1385	0.6003	8.5428	0.0125		0.0185	0.0185		0.0185	0.0185	0.0000	1,195.8187	1,195.8187	0.2243		1,201.4255
<b>Total</b>	<b>0.1385</b>	<b>0.6003</b>	<b>8.5428</b>	<b>0.0125</b>	<b>0.0000</b>	<b>0.0185</b>	<b>0.0185</b>	<b>0.0000</b>	<b>0.0185</b>	<b>0.0185</b>	<b>0.0000</b>	<b>1,195.8187</b>	<b>1,195.8187</b>	<b>0.2243</b>		<b>1,201.4255</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.3097	0.1774	1.9163	7.7400e-003	0.9858	5.5500e-003	0.9913	0.2615	5.1100e-003	0.2666		772.3500	772.3500	0.0124		772.6597

<b>Total</b>	<b>0.3097</b>	<b>0.1774</b>	<b>1.9163</b>	<b>7.7400e-003</b>	<b>0.9858</b>	<b>5.5500e-003</b>	<b>0.9913</b>	<b>0.2615</b>	<b>5.1100e-003</b>	<b>0.2666</b>		<b>772.3500</b>	<b>772.3500</b>	<b>0.0124</b>		<b>772.6597</b>
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### 3.9 Building Exterior Final Closeout - 2023

#### 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	
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>						
Archit. Coating	19.2390					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2233	2.0819	4.3498	6.8500e-003		0.0850	0.0850		0.0782	0.0782		662.7255	662.7255	0.2143			668.0840
<b>Total</b>	<b>19.4623</b>	<b>2.0819</b>	<b>4.3498</b>	<b>6.8500e-003</b>		<b>0.0850</b>	<b>0.0850</b>		<b>0.0782</b>	<b>0.0782</b>		<b>662.7255</b>	<b>662.7255</b>	<b>0.2143</b>			<b>668.0840</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>						
Hauling	0.0000	0.0000	0.0000	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	0.1548	0.0887	0.9581	3.8700e-003	0.4929	2.7700e-003	0.4957	0.1307	2.5500e-003	0.1333		386.1750	386.1750	6.2000e-003			386.3299
<b>Total</b>	<b>0.1548</b>	<b>0.0887</b>	<b>0.9581</b>	<b>3.8700e-003</b>	<b>0.4929</b>	<b>2.7700e-003</b>	<b>0.4957</b>	<b>0.1307</b>	<b>2.5500e-003</b>	<b>0.1333</b>		<b>386.1750</b>	<b>386.1750</b>	<b>6.2000e-003</b>			<b>386.3299</b>

#### 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	19.2390					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1049	1.2191	5.1925	6.8500e-003		0.0112	0.0112		0.0112	0.0112	0.0000	662.7255	662.7255	0.2143		668.0840
<b>Total</b>	<b>19.3438</b>	<b>1.2191</b>	<b>5.1925</b>	<b>6.8500e-003</b>		<b>0.0112</b>	<b>0.0112</b>		<b>0.0112</b>	<b>0.0112</b>	<b>0.0000</b>	<b>662.7255</b>	<b>662.7255</b>	<b>0.2143</b>		<b>668.0840</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1548	0.0887	0.9581	3.8700e-003	0.4929	2.7700e-003	0.4957	0.1307	2.5500e-003	0.1333		386.1750	386.1750	6.2000e-003		386.3299
<b>Total</b>	<b>0.1548</b>	<b>0.0887</b>	<b>0.9581</b>	<b>3.8700e-003</b>	<b>0.4929</b>	<b>2.7700e-003</b>	<b>0.4957</b>	<b>0.1307</b>	<b>2.5500e-003</b>	<b>0.1333</b>		<b>386.1750</b>	<b>386.1750</b>	<b>6.2000e-003</b>		<b>386.3299</b>

## 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	2.0994	5.9903	24.3509	0.0817	8.2705	0.0659	8.3364	2.2148	0.0614	2.2762		8,250.5214	8,250.5214	0.3029		8,258.0931
Unmitigated	2.0994	5.9903	24.3509	0.0817	8.2705	0.0659	8.3364	2.2148	0.0614	2.2762		8,250.5214	8,250.5214	0.3029		8,258.0931

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	1,420.40	1,420.40	1420.40	3,394,405	3,394,405
Strip Mall	323.83	323.83	323.83	498,713	498,713
Total	1,744.23	1,744.23	1,744.23	3,893,118	3,893,118

#### 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- NW	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.470625	0.050338	0.265549	0.140745	0.017339	0.006996	0.024054	0.006595	0.004215	0.003104	0.009159	0.000488	0.000793
General Office Building	0.470625	0.050338	0.265549	0.140745	0.017339	0.006996	0.024054	0.006595	0.004215	0.003104	0.009159	0.000488	0.000793
Strip Mall	0.470625	0.050338	0.265549	0.140745	0.017339	0.006996	0.024054	0.006595	0.004215	0.003104	0.009159	0.000488	0.000793



## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.4741	40.6738	34.1660	0.2440		3.0912	3.0912		3.0912	3.0912		48,808.5899	48,808.5899	0.9355	0.8948	49,098.6349
NaturalGas Unmitigated	4.4741	40.6738	34.1660	0.2440		3.0912	3.0912		3.0912	3.0912		48,808.5899	48,808.5899	0.9355	0.8948	49,098.6349

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	331962	3.5800	32.5453	27.3381	0.1953		2.4734	2.4734		2.4734	2.4734		39,054.3594	39,054.3594	0.7485	0.7160	39,286.4399
Strip Mall	82911	0.8941	8.1285	6.8280	0.0488		0.6178	0.6178		0.6178	0.6178		9,754.2305	9,754.2305	0.1870	0.1788	9,812.1950
<b>Total</b>		<b>4.4741</b>	<b>40.6738</b>	<b>34.1660</b>	<b>0.2440</b>		<b>3.0912</b>	<b>3.0912</b>		<b>3.0912</b>	<b>3.0912</b>		<b>48,808.5899</b>	<b>48,808.5899</b>	<b>0.9355</b>	<b>0.8948</b>	<b>49,098.6349</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	331.962	3.5800	32.5453	27.3381	0.1953		2.4734	2.4734		2.4734	2.4734		39,054.3594	39,054.3594	0.7485	0.7160	39,286.4399
Strip Mall	82.911	0.8941	8.1285	6.8280	0.0488		0.6178	0.6178		0.6178	0.6178		9,754.2305	9,754.2305	0.1870	0.1788	9,812.1950
<b>Total</b>		<b>4.4741</b>	<b>40.6738</b>	<b>34.1660</b>	<b>0.2440</b>		<b>3.0912</b>	<b>3.0912</b>		<b>3.0912</b>	<b>3.0912</b>		<b>48,808.5899</b>	<b>48,808.5899</b>	<b>0.9355</b>	<b>0.8948</b>	<b>49,098.6349</b>

**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	4.4231	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1005	0.1005	2.6000e-004		0.1071
Unmitigated	4.4231	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1005	0.1005	2.6000e-004		0.1071

**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	0.5271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8917					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3400e-003	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1005	0.1005	2.6000e-004		0.1071
<b>Total</b>	<b>4.4231</b>	<b>4.3000e-004</b>	<b>0.0469</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>0.1005</b>	<b>0.1005</b>	<b>2.6000e-004</b>		<b>0.1071</b>

**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	0.5271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8917					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3400e-003	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1005	0.1005	2.6000e-004		0.1071
<b>Total</b>	<b>4.4231</b>	<b>4.3000e-004</b>	<b>0.0469</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>0.1005</b>	<b>0.1005</b>	<b>2.6000e-004</b>		<b>0.1071</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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## 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 Stationary Equipment

### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	18	335	0.73	Diesel

### Boilers

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

Equipment Type	Number
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## 10.1 Stationary Sources

### Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (200,000 HP)	0.2749	0.7683	0.7009	1.3200e-003		0.0404	0.0404		0.0404	0.0404		140.6186	140.6186	0.0197		141.1115
<b>Total</b>	<b>0.2749</b>	<b>0.7683</b>	<b>0.7009</b>	<b>1.3200e-003</b>		<b>0.0404</b>	<b>0.0404</b>		<b>0.0404</b>	<b>0.0404</b>		<b>140.6186</b>	<b>140.6186</b>	<b>0.0197</b>		<b>141.1115</b>

## 11.0 Vegetation





# **Health Risk Assessment Methodology and Calculations**

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The AERMOD model is a steady-state Gaussian plume model that was developed by EPA for estimating ground-level impacts from point, area, and fugitive sources in simple and complex terrain. Dispersion models such as AERMOD require local meteorological parameters such as wind speed, stability class, mixing height, and temperature. Hourly meteorological data previously developed by CARB from the San Francisco International Airport covering a 5-year period from 2009 through 2013 were used in the analysis. Construction and operation activities were modeled to occur Monday through Friday between 9 a.m. and 5 p.m. throughout the year.

The OEHHA-recommended range for analyzing the inhalation pathway is 0 to 1.8 meters. For construction of the Project, all receptors were modeled at 0 meters. Receptors were placed at all sensitive receptors within 1,000 feet of the Project site. Onsite construction exhaust and dust emissions for the Project were characterized as area sources (AREAPOLY) with a release height of 4.1 meters (13.5 feet) and 0.9 meters (3.0 feet), respectively. Offsite construction exhaust and dust emissions were characterized as line/area sources (LINEAREA) with a release height of 3.4 meters (10.7 feet) and 0.9 meters (3.0 feet), respectively. The urban dispersion option with an elevation of 0 meters was used for this location. All other AERMOD inputs are considered regulatory defaults.

The risk calculations incorporate OEHHA's recent guidance update, which now includes age-specific factors that take into account increased sensitivity to carcinogens during early-in-life exposure. The approach to estimating cancer risk from long-term inhalation, with exposure to carcinogens, requires calculating a range of potential doses and multiplying by cancer potency factors in units corresponding to the inverse dose to obtain a range of cancer risks. For cancer risk, the risk for each age group is calculated using the appropriate daily breathing rates, age sensitivity factors, and exposure duration. The cancer risks calculated for individual age groups are summed to estimate the cancer risk for each receptor.

The project would be constructed in slightly more than two years duration but would occur in three calendar years. For construction, the age-specific sensitivity factors for the maximally exposed individual were conservatively based on an individual in the third trimester of pregnancy for the first 2 months of construction, then in the 0 to 2 age bin and 2 to 9 age bin for the remaining duration of construction. The age bin assumptions are consistent with OEHHA and BAAQMD recommendations.

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<sup>1</sup> <https://ww3.arb.ca.gov/diesel/documents/rmgfinal.pdf>.

Unmitigated Emissions (grams per second) by Receptor Bin					grams by bin by year			grams/second by bin by year		
Source Group	Days of Construction	Grams of PM2.5 exhaust	avg grams per second		3rd tri	0<2	2<9	3rd tri	0<2	2<9
Source Group 1	2021	116	35.7085	0.0000	8.927	26.781	-	0.000	0.000	-
	2022	6	2.4627	0.0000	-	2.463	-	-	0.000	-
	2023	0	-	0.0000	-	-	-	-	-	-
	Total	122			8.927	29.244	-	0.000	0.000	-
Source Group 2	2021	116	8.8163	0.0000	2.204	6.612	-	0.000	0.000	-
	2022	6	0.6080	0.0000	-	0.608	-	-	0.000	-
	2023	0	-	0.0000	-	-	-	-	-	-
	Total	122			2.204	7.220	-	0.000	0.000	-
Source Group 3	2021	116	8.6524	0.0000	2.163	6.489	-	0.000	0.000	-
	2022	6	0.5967	0.0000	-	0.597	-	-	0.000	-
	2023	0	-	0.0000	-	-	-	-	-	-
	Total	122			2.163	7.086	-	0.000	0.000	-
Source Group 4	2021	116	31.2153	0.0000	7.804	23.411	-	0.000	0.000	-
	2022	6	2.1528	0.0000	-	2.153	-	-	0.000	-
	2023	0	-	0.0000	-	-	-	-	-	-
	Total	122			7.804	25.564	-	0.000	0.000	-
Source Group 5	2021	189	38065	0.0062	9,516.371	28,549.112	-	0.002	0.005	-
	2022	259	58504	0.0070	-	58,504.361	-	-	0.007	-
	2023	193	17282	0.0028	-	4,320.469	12,961.406	-	0.001	0.002
	Total	641			9,516.371	91,373.941	12,961.406	0.002	0.012	0.002

Mitigated Emissions (grams per second) by Receptor Bin					grams by bin by year			grams/second by bin by year		
Source Group	Days of Construction	Grams of PM2.5 exhaust	avg grams per second		3rd tri	0<2	2<9	3rd tri	0<2	2<9
Source Group 1	2021	116	35.7085	0.0000	8.927	26.781	-	0.000	0.000	-
	2022	6	2.4627	0.0000	-	2.463	-	-	0.000	-
	2023	0	-	0.0000	-	-	-	-	-	-
	Total	122			8.927	29.244	-	0.000	0.000	-
Source Group 2	2021	116	8.8163	0.0000	2.204	6.612	-	0.000	0.000	-
	2022	6	0.6080	0.0000	-	0.608	-	-	0.000	-
	2023	0	-	0.0000	-	-	-	-	-	-
	Total	122			2.204	7.220	-	0.000	0.000	-
Source Group 3	2021	116	8.6524	0.0000	2.163	6.489	-	0.000	0.000	-
	2022	6	0.5967	0.0000	-	0.597	-	-	0.000	-
	2023	0	-	0.0000	-	-	-	-	-	-
	Total	122			2.163	7.086	-	0.000	0.000	-
Source Group 4	2021	116	31.2153	0.0000	7.804	23.411	-	0.000	0.000	-
	2022	6	2.1528	0.0000	-	2.153	-	-	0.000	-
	2023	0	-	0.0000	-	-	-	-	-	-
	Total	122			7.804	25.564	-	0.000	0.000	-
Source Group 5	2021	189	3828	0.0006	957.080	2,871.241	-	0.000	0.000	-
	2022	259	4255	0.0005	-	4,254.698	-	-	0.001	-
	2023	193	1533	0.0002	-	383.286	1,149.857	-	0.000	0.000
	Total	641			957.080	7,509.224	1,149.857	0.000	0.001	0.000

	Source Group 1	Source Group 2	Source Group 3	Source Group 4	Source Group 5
Source Length (meters)	588.10	145.20	142.50	514.10	n/a
Haul Trip Length (meters)	56,327.04	56,327.04	56,327.04	56,327.04	n/a
Scaling Factor	0.010440811	0.002577803	0.002529868	0.009127055	n/a

**Year Breakdown by Receptor Bin**

	fraction of year	3rd trimester at beg of all construction			% of time for apportioning emissins to bins		
		3rd tri	0<2	2<9	3rd tri	0<2	2<9
2021	1.00	0.25	0.75	-	25%	75%	0%
2022	1.00	-	1.00	-	0%	100%	0%
2023	1.00	-	0.25	0.75	0%	25%	75%

Source Inputs

Burlingame Population	30,889
San Mateo County Population	766,573

offroad sources

Release Height (RH)	4.1 m
Vertical Dimension	3.81 m
Elevation	0 m

onroad/truck sources

Release Height (RH)	3.4 m	EPA PM Hostpot, Appx J
Vertical Dimension	3.16 m	CAPCOA 2009/AERMOD (RH/2.15)
Elevation	0 m	

receptor height (m) 0 Default

Met from SFO

PM2.5 Exhaust (Offroad+Hauling+Vendor)= DPM

Construction 9am-5pm

**HRA Calculations and Values**

Dose factors

$$Dose_{air} = C_{air} \times (BR/EW) \times A \times EF \times 10^{-6}$$

Daily Breath Rate - child (L/kg-day)

A

exposure frequency

Conversion Factor

Risk Factors

$$RISK_{inh-acc} = DOSE_{air} \times CPF \times ASF \times ED/AT \times FAH$$

CPF, DPM ((mg/kg-day)<sup>-1</sup>)

ASF (Average Age Sensitivity Factor, children 2-16)

ED, Exposure Duration (years)

AT, Average Time (days)

FAH

**Health Risk Factor, Hazard**

Chronic Inhalation Reference Exposure Level, respiratory

First 0.25 years

0-2 years

2-9 years

361	1090	631	OEHHA 2015, Table 5.6, 95th %ile for 3rdtri-2yrs old; 80th for 2>9 per BAAQMD guidance
1	1	1	constant
350	350	350	
1.00E-06	1.00E-06	1.00E-06	(mg/ug + m3/L)
<b>0.25</b>	<b>0.2</b>	<b>2.9</b>	
1.1	1.1	1.1	OEHHA 2015, Table 7.1
	1.00	1.00	
10	10	3	
0.25	2	7	
70	70	70	years, constant
<b>0.85</b>	<b>0.85</b>	<b>0.72</b>	
5			OEHHA 2015, Table 6.3

**Hazard Index**

Chronic Inhalation Reference Exposure Level, respiratory, DPM

5

Unmitigated Health Risk Calculations - Risk Scenario 1 (Third Trimester Occurs in 2021)

Methodology, Air Toxics Hot Spots Program Guidance Manual for the Preparation of Risk Assessments\_Final\_March 2015

<https://oehha.ca.gov/air/consultation/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0>

Receptor ID	Receptor ID	Adjusted Average					Adjusted Average					First 0.25 years Cancer Risk	0-2 years Cancer Risk	2-9 years Cancer Risk	9-16 years Cancer Risk	16-30 years Cancer Risk	Total Cancer Risk	or in cases per million	Hazard Index	
		Annual Concentration		Annual Concentration		Annual Concentration		Annual Concentration		Annual Concentration										
		from AERMOD	from AERMOD	from AERMOD	from AERMOD	from AERMOD	from AERMOD	from AERMOD	from AERMOD	from AERMOD	from AERMOD									
		0.000540	0.004284	0.000710	0.000710	1.87E-07	4.48E-06	4.30E-07	0.00E+00	0.00E+00	6.24E-09	1.20E-06	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.3	0.001	
		0.000624	0.004953	0.000820	0.000820	2.16E-07	5.18E-06	4.96E-07	0.00E+00	0.00E+00	7.21E-09	1.38E-06	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.5	0.001	
		0.000999	0.004759	0.000784	0.000784	2.08E-07	4.97E-06	4.75E-07	0.00E+00	0.00E+00	6.93E-09	1.33E-06	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.4	0.001	
		0.000734	0.005028	0.000828	0.000828	2.54E-07	6.00E-06	5.83E-07	0.00E+00	0.00E+00	8.43E-09	1.53E-06	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.7	0.001	
		0.000709	0.005627	0.000925	0.000925	2.45E-07	5.88E-06	5.60E-07	0.00E+00	0.00E+00	8.19E-09	1.57E-06	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.7	0.001	
		0.000702	0.005575	0.000907	0.000907	2.43E-07	5.83E-06	5.49E-07	0.00E+00	0.00E+00	8.11E-09	1.56E-06	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.7	0.001	
		0.000880	0.006982	0.001153	0.001153	3.04E-07	7.30E-06	6.98E-07	0.00E+00	0.00E+00	1.02E-08	1.95E-06	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.1	0.001	
		0.000857	0.006831	0.001114	0.001114	2.95E-07	7.11E-06	6.74E-07	0.00E+00	0.00E+00	9.90E-09	1.90E-06	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.1	0.001	
		0.000958	0.006815	0.001098	0.001098	2.97E-07	7.12E-06	6.64E-07	0.00E+00	0.00E+00	9.91E-09	1.90E-06	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.1	0.001	
		0.000893	0.007115	0.001095	0.001095	3.09E-07	7.44E-06	6.62E-07	0.00E+00	0.00E+00	1.03E-08	1.99E-06	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.2	0.001	
		0.001066	0.008461	0.001394	0.001394	3.69E-07	8.84E-06	8.43E-07	0.00E+00	0.00E+00	1.23E-08	2.36E-06	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.6	0.002	
		0.001048	0.008326	0.001354	0.001354	3.63E-07	8.70E-06	8.19E-07	0.00E+00	0.00E+00	1.21E-08	2.32E-06	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.5	0.002	
		0.001070	0.008511	0.001338	0.001338	3.70E-07	8.90E-06	8.09E-07	0.00E+00	0.00E+00	1.24E-08	2.38E-06	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.6	0.002	
		0.001321	0.010488	0.001720	0.001720	4.57E-07	1.10E-05	1.04E-06	0.00E+00	0.00E+00	1.53E-08	2.93E-06	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.1	0.002	
		0.001316	0.010463	0.001675	0.001675	4.56E-07	1.09E-05	1.01E-06	0.00E+00	0.00E+00	1.52E-08	2.92E-06	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.2	0.002	
		0.001771	0.014059	0.002322	0.002322	6.13E-07	1.47E-05	1.40E-06	0.00E+00	0.00E+00	2.05E-08	3.93E-06	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.2	0.003	
		0.001701	0.013532	0.002194	0.002194	5.89E-07	1.41E-05	1.33E-06	0.00E+00	0.00E+00	1.97E-08	3.77E-06	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.1	0.003	
		0.001521	0.009623	0.001802	0.001802	1.77E-06	4.25E-05	4.13E-06	0.00E+00	0.00E+00	5.92E-08	1.13E-05	9.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	12.4	0.008	
		0.007050	0.055916	0.009377	0.009377	2.44E-06	5.84E-05	5.67E-06	0.00E+00	0.00E+00	8.15E-08	1.56E-05	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	17.0	0.011	
		0.006065	0.048067	0.008067	0.008067	2.10E-06	5.03E-05	4.88E-06	0.00E+00	0.00E+00	7.01E-08	1.34E-05	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	14.7	0.010	
		0.003228	0.041467	0.005953	0.005953	1.81E-06	4.33E-05	4.21E-06	0.00E+00	0.00E+00	6.04E-08	1.16E-05	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	12.6	0.008	
		0.003913	0.037038	0.005227	0.005227	3.36E-06	8.05E-05	7.82E-06	0.00E+00	0.00E+00	1.12E-07	2.15E-05	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35	0.015	
		0.007907	0.062718	0.010519	0.010519	2.74E-06	6.56E-05	6.36E-06	0.00E+00	0.00E+00	9.14E-08	1.75E-05	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	19.1	0.013	
		0.001485	0.011779	0.001974	0.001974	5.14E-07	1.19E-06	1.19E-06	0.00E+00	0.00E+00	1.72E-08	3.29E-06	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.6	0.002	
		0.000841	0.006679	0.001101	0.001101	2.91E-07	6.98E-06	6.66E-07	0.00E+00	0.00E+00	9.73E-09	1.86E-06	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.0	0.001	
		0.000934	0.007415	0.001212	0.001212	3.23E-07	7.75E-06	7.33E-07	0.00E+00	0.00E+00	1.08E-08	2.07E-06	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.3	0.001	
		0.000416	0.003356	0.000540	0.000540	1.40E-07	3.40E-06	3.27E-07	0.00E+00	0.00E+00	4.94E-09	9.09E-07	7.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-07	1.0	0.000
		0.000447	0.003551	0.000587	0.000587	1.55E-07	3.71E-06	3.55E-07	0.00E+00	0.00E+00	5.17E-09	9.92E-07	8.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-06	1.1	0.001
		0.000488	0.003877	0.000639	0.000639	1.69E-07	4.05E-06	3.87E-07	0.00E+00	0.00E+00	5.65E-09	1.08E-06	9.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-06	1.2	0.001
		0.000534	0.004237	0.000697	0.000697	1.85E-07	4.43E-06	4.21E-07	0.00E+00	0.00E+00	6.17E-09	1.18E-06	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-06	1.3	0.001
		0.000583	0.004633	0.000758	0.000758	2.02E-07	4.84E-06	4.59E-07	0.00E+00	0.00E+00	6.74E-09	1.29E-06	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-06	1.4	0.001
		0.000638	0.005067	0.000825	0.000825	2.21E-07	5.30E-06	4.99E-07	0.00E+00	0.00E+00	7.37E-09	1.41E-06	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-06	1.5	0.001
		0.000699	0.005554	0.000894	0.000894	2.42E-07	5.80E-06	5.41E-07	0.00E+00	0.00E+00	8.08E-09	1.55E-06	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-06	1.7	0.001
		0.000776	0.006178	0.000964	0.000964	2.69E-07	6.46E-06	5.83E-07	0.00E+00	0.00E+00	8.97E-09	1.73E-06	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-06	1.9	0.001
		0.000954	0.008000	0.000967	0.000967	1.75E-07	4.18E-06	4.03E-07	0.00E+00	0.00E+00	5.83E-09	1.12E-06	9.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06	1.2	0.001
		0.000467	0.003307	0.000618	0.000618	1.63E-07	3.74E-06	3.74E-07	0.00E+00	0.00E+00	5.40E-09	1.04E-06	8.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-06	1.1	0.001
		0.000485	0.003851	0.000642	0.000642	1.68E-07	4.03E-06	3.88E-07	0.00E+00	0.00E+00	5.61E-09	1.08E-06	9.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-06	1.2	0.001
		0.000450	0.003569	0.000595	0.000595	1.56E-07	3.73E-06	3.60E-07	0.00E+00	0.00E+00	5.20E-09	9.96E-07	8.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06	1.1	0.001
		0.000418	0.003313	0.000552	0.000552	1.45E-07	3.46E-06	3.34E-07	0.00E+00	0.00E+00	4.83E-09	9.25E-07	7.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-06	1.0	0.001
		0.000386	0.003055	0.000515	0.000515	1.35E-07	3.11E-06	3.11E-07	0.00E+00	0.00E+00	4.50E-09	8.62E-07	7.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-07	0.9	0.001
		0.000405	0.003210	0.000535	0.000535	1.40E-07	3.35E-06	3.24E-07	0.00E+00	0.00E+00	4.68E-09	8.96E-07	7.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-07	1.0	0.001
		0.000376	0.002987	0.000498	0.000498	1.30E-07	3.12E-06	3.02E-07	0.00E+00	0.00E+00	4.35E-09	8.34E-07	7.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-07	0.9	0.001
		0.000351	0.002786	0.000465	0.000465	1.22E-07	2.91E-06	2.81E-07	0.00E+00	0.00E+00	4.06E-09	7.78E-07	6.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-07	0.8	0.001
		0.000626	0.004973	0.000806	0.000806	2.17E-07	5.20E-06	4.88E-07	0.00E+00	0.00E+00	7.24E-09	1.39E-06	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-06	1.5	0.001

100	0.037888	0.300490	0.050517	1.31E-05	3.14E-04	3.06E-05	0.00E+00	0.00E+00	4.38E-07	8.39E-05	7.26E-06	0.00E+00	0.00E+00	9.16E-05	91.6	0.060
101	0.021843	0.173235	0.019120	7.56E-06	1.81E-04	1.76E-05	0.00E+00	0.00E+00	2.52E-07	4.84E-05	4.19E-06	0.00E+00	0.00E+00	5.28E-05	52.8	0.035
102	0.021246	0.257646	0.041306	1.12E-05	2.69E-04	2.62E-05	0.00E+00	0.00E+00	3.76E-07	7.19E-05	6.23E-06	0.00E+00	0.00E+00	7.85E-05	78.5	0.052
103	0.040773	0.323366	0.054366	1.41E-05	3.38E-04	3.29E-05	0.00E+00	0.00E+00	4.71E-07	9.03E-05	7.82E-06	0.00E+00	0.00E+00	9.86E-05	98.6	0.065
104	0.000665	0.005276	0.000882	2.30E-07	5.51E-06	5.33E-07	0.00E+00	0.00E+00	7.69E-09	1.47E-06	1.27E-07	0.00E+00	0.00E+00	1.61E-06	1.6	0.001
105	0.000618	0.004900	0.000819	2.14E-07	5.12E-06	4.95E-07	0.00E+00	0.00E+00	7.14E-09	1.37E-06	1.18E-07	0.00E+00	0.00E+00	1.49E-06	1.5	0.001
106	0.000571	0.004531	0.000757	1.98E-07	4.74E-06	4.58E-07	0.00E+00	0.00E+00	6.60E-09	1.27E-06	1.09E-07	0.00E+00	0.00E+00	1.38E-06	1.4	0.001
107	0.000535	0.004241	0.000709	1.85E-07	4.43E-06	4.29E-07	0.00E+00	0.00E+00	6.18E-09	1.18E-06	1.02E-07	0.00E+00	0.00E+00	1.29E-06	1.3	0.001
108	0.000555	0.004407	0.000736	1.92E-07	4.61E-06	4.45E-07	0.00E+00	0.00E+00	6.42E-09	1.23E-06	1.06E-07	0.00E+00	0.00E+00	1.34E-06	1.3	0.001
109	0.000505	0.004004	0.000668	1.75E-07	4.19E-06	4.04E-07	0.00E+00	0.00E+00	5.83E-09	1.12E-06	9.61E-08	0.00E+00	0.00E+00	1.22E-06	1.2	0.001
110	0.000476	0.003779	0.000631	1.65E-07	3.95E-06	3.82E-07	0.00E+00	0.00E+00	5.51E-09	1.06E-06	9.07E-08	0.00E+00	0.00E+00	1.15E-06	1.2	0.001
111	0.000450	0.003571	0.000596	1.56E-07	3.73E-06	3.61E-07	0.00E+00	0.00E+00	5.20E-09	9.97E-07	8.37E-08	0.00E+00	0.00E+00	1.09E-06	1.1	0.001
112	0.000403	0.003199	0.000534	1.40E-07	3.34E-06	3.23E-07	0.00E+00	0.00E+00	4.66E-09	8.93E-07	7.68E-08	0.00E+00	0.00E+00	9.75E-07	1.0	0.001
113	0.000413	0.003277	0.000547	1.43E-07	3.42E-06	3.31E-07	0.00E+00	0.00E+00	4.77E-09	9.15E-07	7.86E-08	0.00E+00	0.00E+00	9.98E-07	1.0	0.001
114	0.000372	0.002948	0.000492	1.29E-07	3.08E-06	2.98E-07	0.00E+00	0.00E+00	4.30E-09	8.23E-07	7.08E-08	0.00E+00	0.00E+00	8.98E-07	0.9	0.001
115	0.000353	0.002801	0.000468	1.22E-07	2.93E-06	2.83E-07	0.00E+00	0.00E+00	4.08E-09	7.82E-07	6.73E-08	0.00E+00	0.00E+00	8.54E-07	0.9	0.001
116	0.000666	0.005279	0.000886	2.30E-07	5.52E-06	5.36E-07	0.00E+00	0.00E+00	7.69E-09	1.47E-06	1.27E-07	0.00E+00	0.00E+00	1.61E-06	1.6	0.001
117	0.000726	0.005761	0.000967	2.51E-07	6.02E-06	5.85E-07	0.00E+00	0.00E+00	8.40E-09	1.61E-06	1.39E-07	0.00E+00	0.00E+00	1.76E-06	1.8	0.001
118	0.000787	0.006243	0.010148	2.72E-07	6.53E-06	6.34E-07	0.00E+00	0.00E+00	9.10E-09	1.74E-06	1.51E-07	0.00E+00	0.00E+00	1.90E-06	1.9	0.001
119	0.000846	0.006710	0.011126	2.93E-07	7.01E-06	6.81E-07	0.00E+00	0.00E+00	9.78E-09	1.87E-06	1.62E-07	0.00E+00	0.00E+00	2.05E-06	2.0	0.001
120	0.000717	0.005684	0.000954	2.48E-07	5.94E-06	5.77E-07	0.00E+00	0.00E+00	8.28E-09	1.59E-06	1.37E-07	0.00E+00	0.00E+00	1.73E-06	1.7	0.001
121	0.000789	0.006259	0.010500	2.73E-07	6.54E-06	6.35E-07	0.00E+00	0.00E+00	9.12E-09	1.75E-06	1.51E-07	0.00E+00	0.00E+00	1.91E-06	1.9	0.001
122	0.000863	0.006848	0.011149	2.99E-07	7.16E-06	6.95E-07	0.00E+00	0.00E+00	9.98E-09	1.91E-06	1.65E-07	0.00E+00	0.00E+00	2.09E-06	2.1	0.001
123	0.000937	0.007430	0.011247	3.24E-07	7.77E-06	7.54E-07	0.00E+00	0.00E+00	1.08E-08	2.07E-06	1.79E-07	0.00E+00	0.00E+00	2.26E-06	2.3	0.001
124	0.000771	0.006113	0.010106	2.67E-07	6.39E-06	6.21E-07	0.00E+00	0.00E+00	8.91E-09	1.71E-06	1.47E-07	0.00E+00	0.00E+00	1.86E-06	1.9	0.001
125	0.000857	0.006796	0.011141	2.97E-07	7.10E-06	6.90E-07	0.00E+00	0.00E+00	9.91E-09	1.90E-06	1.64E-07	0.00E+00	0.00E+00	2.07E-06	2.1	0.001
126	0.005664	0.044927	0.007527	1.96E-06	4.70E-05	4.55E-06	0.00E+00	0.00E+00	6.55E-08	1.25E-05	1.08E-06	0.00E+00	0.00E+00	1.37E-05	13.7	0.009
127	0.004640	0.036812	0.006158	1.61E-06	3.85E-05	3.73E-06	0.00E+00	0.00E+00	5.36E-08	1.03E-05	8.85E-07	0.00E+00	0.00E+00	1.12E-05	11.2	0.007
128	0.004418	0.035046	0.005866	1.53E-06	3.66E-05	3.55E-06	0.00E+00	0.00E+00	5.11E-08	9.79E-06	8.43E-07	0.00E+00	0.00E+00	1.07E-05	10.7	0.007
129	0.003026	0.030353	0.005070	1.13E-06	3.17E-05	3.07E-06	0.00E+00	0.00E+00	4.42E-08	8.48E-06	7.29E-07	0.00E+00	0.00E+00	9.25E-06	9.2	0.006
130	0.003317	0.026318	0.004379	1.15E-06	2.75E-05	2.65E-06	0.00E+00	0.00E+00	3.83E-08	7.35E-06	6.30E-07	0.00E+00	0.00E+00	8.02E-06	8.0	0.005
131	0.002678	0.021254	0.003523	9.27E-07	2.22E-05	2.13E-06	0.00E+00	0.00E+00	3.10E-08	5.93E-06	5.06E-07	0.00E+00	0.00E+00	6.47E-06	6.5	0.004
132	0.004201	0.033323	0.005597	1.45E-06	3.48E-05	3.39E-06	0.00E+00	0.00E+00	4.86E-08	9.30E-06	8.05E-07	0.00E+00	0.00E+00	1.02E-05	10.2	0.007
133	0.005412	0.042924	0.007209	1.87E-06	4.49E-05	4.36E-06	0.00E+00	0.00E+00	6.26E-08	1.20E-05	1.04E-06	0.00E+00	0.00E+00	1.31E-05	13.1	0.009
134	0.013347	0.105860	0.011765	4.62E-06	1.11E-04	1.07E-05	0.00E+00	0.00E+00	1.54E-07	2.96E-05	2.55E-06	0.00E+00	0.00E+00	3.23E-05	32.3	0.011
135	0.023971	0.190112	0.013957	8.30E-06	1.99E-04	1.93E-05	0.00E+00	0.00E+00	2.77E-07	5.31E-05	4.59E-06	0.00E+00	0.00E+00	5.80E-05	58.0	0.038
136	0.015243	0.120900	0.020287	5.28E-06	1.26E-04	1.23E-05	0.00E+00	0.00E+00	1.76E-07	3.38E-05	2.92E-06	0.00E+00	0.00E+00	3.69E-05	36.9	0.024
137	0.025056	0.198717	0.033404	8.67E-06	2.08E-04	2.02E-05	0.00E+00	0.00E+00	2.90E-07	5.55E-05	4.80E-06	0.00E+00	0.00E+00	6.06E-05	60.6	0.040
138	0.032114	0.025498	0.004257	1.11E-06	2.67E-05	2.58E-06	0.00E+00	0.00E+00	3.72E-08	7.12E-06	6.12E-07	0.00E+00	0.00E+00	7.77E-06	7.8	0.005
139	0.012013	0.095284	0.015911	4.16E-06	9.56E-05	9.68E-06	0.00E+00	0.00E+00	1.39E-07	2.66E-05	2.30E-06	0.00E+00	0.00E+00	2.50E-05	25.0	0.019

Mitigated Health Risk Calculations - Risk Scenario 1 (Third Trimester Occurs in 2021)

Methodology, Air Toxics Hot Spots Program Guidance Manual for the Preparation of Risk Assessments\_Final\_March 2015

<https://oehha.ca.gov/air/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0>

Receptor ID	Receptor ID	Adjusted Average					Annual Concentration					Cancer Risk					Total Cancer Risk	or in cases per million	Hazard Index	
		Annual Concentration from AERMOD		Annual Concentration from AERMOD 2-9 Years		Annual Concentration from AERMOD 9-16 Years		Annual Concentration from AERMOD 16-30 Years		1st 0.25 years		0-2 years		2-9 years		9-16 years				
		Dose-Air (mg/kg/d)	Dose-Air (mg/kg/d)	Dose-Air (mg/kg/d)	Dose-Air (mg/kg/d)	Dose-Air (mg/kg/d)	Dose-Air (mg/kg/d)	Dose-Air (mg/kg/d)	Dose-Air (mg/kg/d)	Cancer Risk	0-2 years	2-9 years	9-16 years	16-30 years						
1	0.00061	0.000418	0.00063	2.11E-08	4.37E-07	3.81E-08	0.00E+00	0.00E+00	7.05E-10	1.17E-07	9.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-07	0.1	0.000		
2	0.00071	0.000486	0.00073	2.46E-08	5.08E-07	4.40E-08	0.00E+00	0.00E+00	8.20E-10	1.36E-07	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-07	0.1	0.000		
3	0.00071	0.000488	0.00070	2.44E-08	5.10E-07	4.21E-08	0.00E+00	0.00E+00	8.16E-10	1.36E-07	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-07	0.1	0.000		
4	0.00078	0.000578	0.00080	2.91E-08	6.04E-07	5.18E-08	0.00E+00	0.00E+00	9.71E-10	1.61E-07	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-07	0.2	0.000		
5	0.00085	0.000589	0.00082	2.94E-08	6.15E-07	4.97E-08	0.00E+00	0.00E+00	9.81E-10	1.64E-07	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-07	0.2	0.000		
6	0.00090	0.000636	0.00080	3.12E-08	6.64E-07	4.87E-08	0.00E+00	0.00E+00	1.04E-09	1.77E-07	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-07	0.2	0.000		
7	0.00102	0.000701	0.00102	3.53E-08	7.33E-07	6.19E-08	0.00E+00	0.00E+00	1.18E-09	1.96E-07	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-07	0.2	0.000		
8	0.00105	0.000704	0.00105	3.64E-08	7.67E-07	5.89E-08	0.00E+00	0.00E+00	1.22E-09	2.05E-07	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-07	0.2	0.000		
9	0.00117	0.000836	0.00097	4.06E-08	8.74E-07	5.89E-08	0.00E+00	0.00E+00	1.35E-09	2.33E-07	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-07	0.2	0.000		
10	0.00155	0.001153	0.00097	5.37E-08	1.21E-06	5.88E-08	0.00E+00	0.00E+00	1.79E-09	3.22E-07	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-07	0.3	0.000		
11	0.00126	0.000869	0.00124	4.35E-08	9.09E-07	7.48E-08	0.00E+00	0.00E+00	1.45E-09	2.43E-07	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-07	0.3	0.000		
12	0.00125	0.000951	0.00120	4.67E-08	9.94E-07	7.27E-08	0.00E+00	0.00E+00	1.56E-09	2.66E-07	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-07	0.3	0.000		
13	0.00099	0.001147	0.00149	3.45E-07	6.94E-06	6.94E-07	0.00E+00	0.00E+00	6.17E-09	9.99E-07	8.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06	1.1	0.001		
14	0.00161	0.001122	0.00153	5.58E-08	1.17E-06	9.23E-08	0.00E+00	0.00E+00	1.86E-09	3.13E-07	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-07	0.3	0.000		
15	0.00187	0.001342	0.00149	6.47E-08	1.40E-06	8.99E-08	0.00E+00	0.00E+00	2.16E-09	3.75E-07	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-07	0.4	0.000		
16	0.00205	0.001414	0.00206	7.11E-08	1.48E-06	1.25E-07	0.00E+00	0.00E+00	2.37E-09	3.95E-07	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-07	0.4	0.000		
17	0.00221	0.001564	0.00195	7.66E-08	1.64E-06	1.18E-07	0.00E+00	0.00E+00	2.56E-09	4.37E-07	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-07	0.5	0.000		
18	0.00239	0.001799	0.00203	8.20E-08	1.74E-06	3.65E-07	0.00E+00	0.00E+00	2.79E-09	4.79E-07	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-07	0.5	0.000		
19	0.00276	0.004851	0.00832	2.51E-07	5.07E-06	5.03E-07	0.00E+00	0.00E+00	8.39E-09	1.35E-06	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-06	1.5	0.001		
20	0.00265	0.004177	0.00716	2.16E-07	4.37E-06	4.33E-07	0.00E+00	0.00E+00	7.23E-09	1.17E-06	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-06	1.3	0.001		
21	0.00339	0.003605	0.00617	1.87E-07	3.77E-06	3.73E-07	0.00E+00	0.00E+00	6.23E-09	1.01E-06	8.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-06	1.1	0.001		
22	0.00395	0.004660	0.00717	3.45E-07	6.94E-06	6.94E-07	0.00E+00	0.00E+00	1.15E-08	1.85E-06	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-06	2.0	0.001		
23	0.00314	0.005434	0.00913	2.82E-07	5.68E-06	5.65E-07	0.00E+00	0.00E+00	9.41E-09	1.52E-06	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-06	1.7	0.001		
24	0.00154	0.001031	0.00175	5.33E-08	1.08E-06	1.06E-07	0.00E+00	0.00E+00	1.78E-09	2.88E-07	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-07	0.3	0.000		
25	0.00099	0.000685	0.00098	3.43E-08	7.16E-07	5.91E-08	0.00E+00	0.00E+00	1.15E-09	1.91E-07	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-07	0.2	0.000		
26	0.00117	0.000817	0.00107	4.04E-08	8.54E-07	6.50E-08	0.00E+00	0.00E+00	1.35E-09	2.28E-07	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-07	0.2	0.000		
27	0.00046	0.000317	0.00048	1.61E-08	3.32E-07	2.90E-08	0.00E+00	0.00E+00	6.86E-10	8.86E-08	6.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-07	0.2	0.000		
28	0.00051	0.000354	0.00052	1.78E-08	3.70E-07	3.15E-08	0.00E+00	0.00E+00	5.95E-10	9.88E-08	7.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-07	0.1	0.000		
29	0.00057	0.000395	0.00057	1.98E-08	4.13E-07	3.43E-08	0.00E+00	0.00E+00	6.62E-10	1.10E-07	8.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-07	0.1	0.000		
30	0.00054	0.000444	0.00062	2.21E-08	4.64E-07	3.74E-08	0.00E+00	0.00E+00	7.39E-10	1.24E-07	8.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-07	0.1	0.000		
31	0.00072	0.000502	0.00062	2.49E-08	5.25E-07	4.07E-08	0.00E+00	0.00E+00	8.31E-10	1.40E-07	9.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-07	0.2	0.000		
32	0.00052	0.000577	0.00073	2.83E-08	6.03E-07	4.43E-08	0.00E+00	0.00E+00	9.46E-10	1.61E-07	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-07	0.2	0.000		
33	0.00096	0.000687	0.00079	3.33E-08	7.18E-07	4.80E-08	0.00E+00	0.00E+00	1.11E-09	1.92E-07	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-07	0.2	0.000		
34	0.00126	0.000929	0.00086	4.37E-08	9.71E-07	5.17E-08	0.00E+00	0.00E+00	1.46E-09	2.59E-07	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-07	0.3	0.000		
35	0.00055	0.000370	0.00059	1.89E-08	3.87E-07	3.58E-08	0.00E+00	0.00E+00	6.32E-10	1.03E-07	8.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07	0.1	0.000		
36	0.00051	0.000342	0.00055	1.75E-08	3.58E-07	3.32E-08	0.00E+00	0.00E+00	5.84E-10	9.56E-08	7.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-07	0.1	0.000		
37	0.00052	0.000355	0.00057	1.82E-08	3.71E-07	3.45E-08	0.00E+00	0.00E+00	6.06E-10	9.91E-08	8.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-07	0.1	0.000		
38	0.00049	0.000328	0.00053	1.68E-08	3.43E-07	3.19E-08	0.00E+00	0.00E+00	5.61E-10	9.17E-08	7.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-08	0.1	0.000		
39	0.00045	0.000304	0.00049	1.56E-08	3.18E-07	2.97E-08	0.00E+00	0.00E+00	5.20E-10	8.50E-08	7.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-08	0.1	0.000		
40	0.00043	0.000283	0.00046	1.46E-08	2.95E-07	2.76E-08	0.00E+00	0.00E+00	4.84E-10	7.90E-08	6.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-08	0.1	0.000		
41	0.00043	0.000294	0.00047	1.51E-08	3.07E-07	2.87E-08	0.00E+00	0.00E+00	5.03E-10	8.20E-08	6.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-08	0.1	0.000		
42	0.00040	0.000273	0.00044	1.40E-08	2.85E-07	2.67E-08	0.00E+00	0.00E+00	4.67E-10	7.63E-08	6.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-08	0.1	0.000		
43	0.00038	0.000254	0.00041	1.30E-08	2.66E-07	2.50E-08	0.00E+00	0.00E+00	4.36E-10	7.11E-08	5.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-08	0.1	0.000		
44	0.00032	0.000282	0.00037	1.25E-08	6.08E-07	4.33E-08	0.00E+00	0.00E+00	9.51E-10	1.63E-07	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-07	0.2	0.000		
45	0.00021	0.000203	0.00023	3.35E-09	1.55E-07	4.33E-08	0.00E+00	0.00E+00	1.12E-09	4.96E-07	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-07	0.2	0.000		
46	0.00097	0.000702	0.00073	3.35E-08	7.34E-07	4.40E-08	0.00E+00	0.00E+00	1.12E-09	1.96										

100	0.003822	0.025389	0.004482	1.32E-06	2.65E-05	2.71E-06	0.00E+00	0.00E+00	4.42E-08	7.09E-06	6.44E-07	0.00E+00	0.00E+00	7.78E-06	7.8	0.005
101	0.002206	0.014656	0.002583	7.64E-07	1.53E-05	1.56E-06	0.00E+00	0.00E+00	2.55E-08	4.09E-06	3.71E-07	0.00E+00	0.00E+00	4.49E-06	4.5	0.003
102	0.003283	0.021813	0.003842	1.14E-06	2.28E-05	2.32E-06	0.00E+00	0.00E+00	3.75E-08	6.05E-06	5.52E-07	0.00E+00	0.00E+00	6.68E-06	6.7	0.004
103	0.004112	0.027306	0.004823	1.42E-06	2.85E-05	2.92E-06	0.00E+00	0.00E+00	4.75E-08	7.62E-06	6.93E-07	0.00E+00	0.00E+00	8.37E-06	8.4	0.005
104	0.000071	0.000476	0.000078	2.45E-08	4.97E-07	4.73E-08	0.00E+00	0.00E+00	8.17E-10	1.33E-07	1.12E-08	0.00E+00	0.00E+00	1.45E-07	0.1	0.000
105	0.000065	0.000441	0.000073	2.27E-08	4.61E-07	4.40E-08	0.00E+00	0.00E+00	7.57E-10	1.23E-07	1.04E-08	0.00E+00	0.00E+00	1.34E-07	0.1	0.000
106	0.000061	0.000409	0.000067	2.10E-08	4.27E-07	4.06E-08	0.00E+00	0.00E+00	7.01E-10	1.14E-07	9.65E-09	0.00E+00	0.00E+00	1.24E-07	0.1	0.000
107	0.000057	0.000381	0.000063	1.96E-08	3.95E-07	3.80E-08	0.00E+00	0.00E+00	6.55E-10	1.07E-07	9.04E-09	0.00E+00	0.00E+00	1.16E-07	0.1	0.000
108	0.000059	0.000401	0.000065	2.06E-08	4.19E-07	3.95E-08	0.00E+00	0.00E+00	6.86E-10	1.12E-07	9.38E-09	0.00E+00	0.00E+00	1.22E-07	0.1	0.000
109	0.000054	0.000366	0.000059	1.87E-08	3.82E-07	3.59E-08	0.00E+00	0.00E+00	6.26E-10	1.02E-07	8.52E-09	0.00E+00	0.00E+00	1.11E-07	0.1	0.000
110	0.000051	0.000344	0.000056	1.76E-08	3.59E-07	3.39E-08	0.00E+00	0.00E+00	5.89E-10	9.60E-08	8.04E-09	0.00E+00	0.00E+00	1.05E-07	0.1	0.000
111	0.000048	0.000324	0.000053	1.66E-08	3.38E-07	3.20E-08	0.00E+00	0.00E+00	5.55E-10	9.04E-08	7.61E-09	0.00E+00	0.00E+00	9.85E-08	0.1	0.000
112	0.000043	0.000288	0.000047	1.48E-08	3.01E-07	2.87E-08	0.00E+00	0.00E+00	4.95E-10	8.05E-08	6.82E-09	0.00E+00	0.00E+00	8.78E-08	0.1	0.000
113	0.000044	0.000298	0.000049	1.53E-08	3.12E-07	2.94E-08	0.00E+00	0.00E+00	5.11E-10	8.32E-08	6.98E-09	0.00E+00	0.00E+00	9.07E-08	0.1	0.000
114	0.000040	0.000266	0.000044	1.37E-08	2.78E-07	2.64E-08	0.00E+00	0.00E+00	4.57E-10	7.44E-08	6.28E-09	0.00E+00	0.00E+00	8.11E-08	0.1	0.000
115	0.000037	0.000253	0.000042	1.30E-08	2.64E-07	2.51E-08	0.00E+00	0.00E+00	4.33E-10	7.05E-08	5.97E-09	0.00E+00	0.00E+00	7.69E-08	0.1	0.000
116	0.000068	0.000456	0.000079	2.36E-08	4.76E-07	4.75E-08	0.00E+00	0.00E+00	7.89E-10	1.27E-07	1.13E-08	0.00E+00	0.00E+00	1.39E-07	0.1	0.000
117	0.000074	0.000497	0.000086	2.58E-08	5.20E-07	5.19E-08	0.00E+00	0.00E+00	8.61E-10	1.39E-07	1.23E-08	0.00E+00	0.00E+00	1.52E-07	0.2	0.000
118	0.000081	0.000539	0.000093	2.79E-08	5.63E-07	5.62E-08	0.00E+00	0.00E+00	9.33E-10	1.50E-07	1.34E-08	0.00E+00	0.00E+00	1.65E-07	0.2	0.000
119	0.000087	0.000579	0.000100	3.00E-08	6.05E-07	6.04E-08	0.00E+00	0.00E+00	1.00E-09	1.62E-07	1.44E-08	0.00E+00	0.00E+00	1.77E-07	0.2	0.000
120	0.000073	0.000480	0.000085	2.54E-08	5.12E-07	5.12E-08	0.00E+00	0.00E+00	8.49E-10	1.37E-07	1.22E-08	0.00E+00	0.00E+00	1.50E-07	0.1	0.000
121	0.000081	0.000540	0.000093	2.80E-08	5.64E-07	5.64E-08	0.00E+00	0.00E+00	9.35E-10	1.51E-07	1.34E-08	0.00E+00	0.00E+00	1.65E-07	0.2	0.000
122	0.000089	0.000590	0.000102	3.06E-08	6.17E-07	6.17E-08	0.00E+00	0.00E+00	1.02E-09	1.65E-07	1.47E-08	0.00E+00	0.00E+00	1.81E-07	0.2	0.000
123	0.000096	0.000641	0.000111	3.32E-08	6.70E-07	6.69E-08	0.00E+00	0.00E+00	1.11E-09	1.79E-07	1.59E-08	0.00E+00	0.00E+00	1.96E-07	0.2	0.000
124	0.000079	0.000527	0.000091	2.73E-08	5.51E-07	5.51E-08	0.00E+00	0.00E+00	9.13E-10	1.47E-07	1.31E-08	0.00E+00	0.00E+00	1.61E-07	0.2	0.000
125	0.000086	0.000586	0.000101	3.04E-08	6.12E-07	6.12E-08	0.00E+00	0.00E+00	1.01E-09	1.63E-07	1.45E-08	0.00E+00	0.00E+00	1.79E-07	0.2	0.000
126	0.000588	0.003937	0.000668	2.04E-07	4.11E-06	4.04E-07	0.00E+00	0.00E+00	6.80E-09	1.10E-06	9.60E-08	0.00E+00	0.00E+00	1.20E-06	1.2	0.001
127	0.000488	0.003280	0.000546	1.69E-07	3.43E-06	3.31E-07	0.00E+00	0.00E+00	5.64E-09	9.16E-07	7.85E-08	0.00E+00	0.00E+00	1.00E-06	1.0	0.001
128	0.000482	0.003102	0.000520	1.60E-07	3.24E-06	3.15E-07	0.00E+00	0.00E+00	5.34E-09	8.66E-07	7.48E-08	0.00E+00	0.00E+00	9.46E-07	0.9	0.001
129	0.000407	0.002743	0.000450	1.41E-07	2.87E-06	2.72E-07	0.00E+00	0.00E+00	4.70E-09	7.66E-07	6.47E-08	0.00E+00	0.00E+00	8.35E-07	0.8	0.001
130	0.000364	0.002471	0.000388	1.26E-07	2.58E-06	2.35E-07	0.00E+00	0.00E+00	4.21E-09	6.90E-07	5.58E-08	0.00E+00	0.00E+00	7.50E-07	0.8	0.000
131	0.000302	0.002068	0.000313	1.05E-07	2.16E-06	1.89E-07	0.00E+00	0.00E+00	3.49E-09	5.77E-07	4.49E-08	0.00E+00	0.00E+00	6.26E-07	0.6	0.000
132	0.000427	0.002846	0.000496	1.48E-07	2.97E-06	3.00E-07	0.00E+00	0.00E+00	4.94E-09	7.95E-07	7.14E-08	0.00E+00	0.00E+00	8.71E-07	0.9	0.001
133	0.000520	0.003665	0.000640	1.91E-07	3.83E-06	3.87E-07	0.00E+00	0.00E+00	6.36E-09	1.02E-06	9.19E-08	0.00E+00	0.00E+00	1.12E-06	1.1	0.001
134	0.001367	0.009120	0.001576	4.73E-07	9.53E-06	9.54E-07	0.00E+00	0.00E+00	1.58E-08	2.55E-06	2.27E-07	0.00E+00	0.00E+00	2.79E-06	2.8	0.002
135	0.002421	0.016082	0.002835	8.38E-07	1.68E-05	1.72E-06	0.00E+00	0.00E+00	2.80E-08	4.49E-06	4.08E-07	0.00E+00	0.00E+00	4.93E-06	4.9	0.003
136	0.001562	0.010420	0.001800	5.41E-07	1.09E-05	1.09E-06	0.00E+00	0.00E+00	1.81E-08	2.91E-06	2.59E-07	0.00E+00	0.00E+00	3.19E-06	3.2	0.002
137	0.002530	0.016811	0.002963	8.76E-07	1.76E-05	1.79E-06	0.00E+00	0.00E+00	2.92E-08	4.69E-06	4.26E-07	0.00E+00	0.00E+00	5.15E-06	5.1	0.003
138	0.002043	0.002317	0.003378	1.19E-07	2.42E-06	2.29E-07	0.00E+00	0.00E+00	3.97E-09	6.47E-07	5.43E-08	0.00E+00	0.00E+00	7.05E-07	0.7	0.000
139	0.001230	0.008200	0.001419	4.26E-07	8.57E-06	8.58E-07	0.00E+00	0.00E+00	1.42E-08	2.25E-06	2.04E-07	0.00E+00	0.00E+00	2.51E-06	2.5	0.002



Receptor Number Max	Unmitigated Total PM2.5 Concentration (micrograms per cubic meter)			Mitigated Total PM2.5 Concentration (micrograms per cubic meter)		
	2021	2022	2023	2021	2022	2023
	<b>0.22</b>	<b>0.19</b>	<b>0.07</b>	<b>0.06</b>	<b>0.07</b>	<b>0.01</b>
1	0.01	0.01	0.00	0.00	0.00	0.00
2	0.01	0.01	0.00	0.00	0.00	0.00
3	0.01	0.01	0.00	0.00	0.01	0.00
4	0.01	0.01	0.00	0.01	0.01	0.00
5	0.01	0.01	0.00	0.01	0.01	0.00
6	0.02	0.01	0.00	0.01	0.01	0.00
7	0.01	0.01	0.00	0.01	0.01	0.00
8	0.02	0.01	0.00	0.01	0.01	0.00
9	0.03	0.02	0.00	0.01	0.02	0.00
10	0.09	0.08	0.01	0.06	0.07	0.01
11	0.02	0.01	0.00	0.01	0.01	0.00
12	0.03	0.02	0.00	0.01	0.02	0.00
13	0.08	0.07	0.01	0.05	0.06	0.01
14	0.03	0.02	0.00	0.01	0.02	0.00
15	0.07	0.06	0.01	0.04	0.05	0.01
16	0.03	0.02	0.00	0.01	0.02	0.00
17	0.06	0.05	0.01	0.03	0.04	0.00
18	0.04	0.03	0.01	0.01	0.01	0.00
19	0.05	0.04	0.01	0.02	0.01	0.00
20	0.05	0.04	0.01	0.02	0.01	0.00
21	0.04	0.03	0.01	0.01	0.01	0.00
22	0.07	0.05	0.02	0.02	0.01	0.00
23	0.06	0.05	0.01	0.02	0.01	0.00
24	0.01	0.01	0.00	0.00	0.00	0.00
25	0.01	0.01	0.00	0.01	0.01	0.00
26	0.02	0.02	0.00	0.01	0.01	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.01	0.01	0.00	0.00	0.00	0.00
29	0.01	0.01	0.00	0.00	0.00	0.00
30	0.01	0.01	0.00	0.00	0.01	0.00
31	0.01	0.01	0.00	0.01	0.01	0.00
32	0.01	0.01	0.00	0.01	0.01	0.00
33	0.02	0.02	0.00	0.01	0.01	0.00
34	0.05	0.04	0.01	0.03	0.04	0.00
35	0.01	0.00	0.00	0.00	0.00	0.00
36	0.00	0.00	0.00	0.00	0.00	0.00
37	0.00	0.00	0.00	0.00	0.00	0.00
38	0.00	0.00	0.00	0.00	0.00	0.00
39	0.00	0.00	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00	0.00	0.00
42	0.00	0.00	0.00	0.00	0.00	0.00
43	0.00	0.00	0.00	0.00	0.00	0.00

44	0.02	0.01	0.00	0.01	0.01	0.00
45	0.03	0.02	0.00	0.02	0.02	0.00
46	0.03	0.02	0.00	0.02	0.02	0.00
47	0.01	0.01	0.00	0.01	0.01	0.00
48	0.09	0.08	0.01	0.06	0.07	0.01
49	0.03	0.03	0.00	0.02	0.02	0.00
50	0.02	0.01	0.00	0.01	0.01	0.00
51	0.01	0.01	0.00	0.01	0.01	0.00
52	0.04	0.03	0.00	0.02	0.03	0.00
53	0.02	0.01	0.00	0.01	0.01	0.00
54	0.01	0.01	0.00	0.01	0.01	0.00
55	0.01	0.01	0.00	0.00	0.00	0.00
56	0.04	0.04	0.01	0.03	0.03	0.00
57	0.02	0.02	0.00	0.01	0.01	0.00
58	0.01	0.01	0.00	0.01	0.01	0.00
59	0.01	0.01	0.00	0.01	0.01	0.00
60	0.01	0.01	0.00	0.00	0.00	0.00
61	0.05	0.04	0.01	0.03	0.04	0.00
62	0.02	0.02	0.00	0.01	0.01	0.00
63	0.02	0.01	0.00	0.01	0.01	0.00
64	0.01	0.01	0.00	0.01	0.01	0.00
65	0.03	0.02	0.00	0.01	0.01	0.00
66	0.02	0.02	0.00	0.01	0.01	0.00
67	0.02	0.01	0.00	0.01	0.01	0.00
68	0.01	0.01	0.00	0.01	0.00	0.00
69	0.02	0.02	0.00	0.01	0.01	0.00
70	0.02	0.02	0.00	0.01	0.01	0.00
71	0.02	0.01	0.00	0.01	0.01	0.00
72	0.02	0.01	0.00	0.01	0.00	0.00
73	0.03	0.02	0.01	0.01	0.01	0.00
74	0.04	0.03	0.01	0.01	0.01	0.00
75	0.04	0.03	0.01	0.01	0.01	0.00
76	0.03	0.02	0.01	0.01	0.01	0.00
77	0.03	0.02	0.01	0.01	0.01	0.00
78	0.03	0.02	0.01	0.01	0.01	0.00
79	0.02	0.02	0.00	0.01	0.00	0.00
80	0.02	0.01	0.00	0.01	0.00	0.00
81	0.02	0.01	0.00	0.01	0.00	0.00
82	0.01	0.01	0.00	0.01	0.00	0.00
83	0.07	0.04	0.01	0.03	0.01	0.00
84	0.05	0.04	0.01	0.02	0.01	0.00
85	0.04	0.03	0.01	0.02	0.01	0.00
86	0.04	0.02	0.01	0.01	0.01	0.00
87	0.03	0.02	0.01	0.01	0.01	0.00
88	0.02	0.02	0.01	0.01	0.01	0.00
89	0.02	0.01	0.00	0.01	0.00	0.00

90	0.02	0.01	0.00	0.01	0.00	0.00
91	0.02	0.01	0.00	0.01	0.00	0.00
92	0.08	0.05	0.01	0.04	0.02	0.00
93	0.06	0.03	0.01	0.03	0.01	0.00
94	0.04	0.03	0.01	0.02	0.01	0.00
95	0.03	0.02	0.01	0.01	0.01	0.00
96	0.03	0.02	0.01	0.01	0.01	0.00
97	0.02	0.02	0.00	0.01	0.01	0.00
98	0.02	0.01	0.00	0.01	0.00	0.00
99	0.10	0.09	0.03	0.02	0.01	0.00
100	0.20	0.18	0.07	0.05	0.02	0.01
101	0.11	0.10	0.04	0.03	0.01	0.00
102	0.18	0.16	0.06	0.04	0.02	0.01
103	0.22	0.19	0.07	0.05	0.02	0.01
104	0.01	0.00	0.00	0.00	0.00	0.00
105	0.01	0.00	0.00	0.00	0.00	0.00
106	0.01	0.00	0.00	0.00	0.00	0.00
107	0.00	0.00	0.00	0.00	0.00	0.00
108	0.01	0.00	0.00	0.00	0.00	0.00
109	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00
112	0.00	0.00	0.00	0.00	0.00	0.00
113	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00
116	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00
118	0.01	0.00	0.00	0.00	0.00	0.00
119	0.01	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00
121	0.00	0.00	0.00	0.00	0.00	0.00
122	0.01	0.00	0.00	0.00	0.00	0.00
123	0.01	0.01	0.00	0.00	0.00	0.00
124	0.00	0.00	0.00	0.00	0.00	0.00
125	0.01	0.00	0.00	0.00	0.00	0.00
126	0.04	0.04	0.01	0.02	0.01	0.00
127	0.04	0.03	0.01	0.02	0.01	0.00
128	0.04	0.03	0.01	0.01	0.01	0.00
129	0.04	0.03	0.01	0.01	0.01	0.00
130	0.04	0.03	0.01	0.02	0.02	0.00
131	0.04	0.03	0.01	0.02	0.02	0.00
132	0.02	0.02	0.01	0.01	0.00	0.00
133	0.03	0.03	0.01	0.01	0.00	0.00
134	0.12	0.08	0.03	0.05	0.02	0.00
135	0.13	0.11	0.04	0.03	0.01	0.00

136	0.14	0.09	0.03	0.06	0.03	0.00
137	0.14	0.12	0.05	0.03	0.01	0.00
138	0.03	0.02	0.01	0.01	0.01	0.00
139	0.10	0.07	0.02	0.04	0.02	0.00

**BAAQMD Permitted Facilities (Stationary Sources) Data for Cumulative Analysis**

FID	OBJECTID	FACID	Name	Address	City	St	Zip	County	Cancer	Hazard	PM_25	Type	Latitude	Longitude	x	y	Distance to Area 1	Distance to Area 2	Distance to Area 3
1024	1,024	9867	Caliber Collision Center	123 California Dr	Burlingame	CA	94010	San Mateo	0	0	0	Contact BAAQMD	37.578	-122.342	-13619039.06	4520003.019	> 1,000 feet	> 1,000 feet	900 feet
1232	1,232	11731	Shaffer Property Trust c/o RRM	1200 Howard Avenue	Burlingame	CA	94010	San Mateo	4.28	0.02	0	Contact BAAQMD	37.576	-122.344	-13619321.64	4519704.015	400 feet	300 feet	100 feet
1560	1,560	13454	Pacific Bell	1480 Burlingame Avenue	Burlingame	CA	94010	San Mateo	39.59	0.06	0.02	Generators	37.577	-122.35	-13619974.04	4519794.655	900 feet	> 1,000 feet	> 1,000 feet
2051	2,051	14468	City of Burlingame	425 Carolan Avenue	Burlingame	CA	94010	San Mateo	0.2	0	0	Generators	37.581	-122.346	-13619545.53	4520417.698	900 feet	900 feet	> 1,000 feet
2055	2,055	14474	City of Burlingame	501 Primrose Road	Burlingame	CA	94010	San Mateo	0.13	0	0	Generators	37.579	-122.35	-13619919.92	4520188.61	900 feet	> 1,000 feet	> 1,000 feet
2262	2,262	14911	Putnam Automotive	198 California Drive	Burlingame	CA	94010	San Mateo	0.22	0	0	Generators	37.579	-122.343	-13619163.99	4520102.309	> 1,000 feet	700 feet	700 feet
4894	4,894	20929	Former Caine Cleaners	1319 Howard Avenue	Burlingame	CA	94010	San Mateo	1.33	0	0	Contact BAAQMD	37.577	-122.346	-13619487.32	4519808.987	500 feet	600 feet	200 feet
5866	5,866	22786	Atria-Burlingame	250 Myrtle Road	Burlingame	CA	94010	San Mateo	0	0	0	Contact BAAQMD	37.577	-122.343	-13619175.58	4519858.71	> 1,000 feet	> 1,000 feet	> 1,000 feet
7548	7,548	109557	Eagle Car Wash	177 California Dr	Burlingame	CA	94010	San Mateo	25.41	0.11	0	Gas Dispensing Facility	37.578	-122.343	-13619190.47	4520049.957	900 feet	600 feet	500 feet



## **AERMOD Output Available Upon Request**

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