

APPENDIX C  
CALEEMOD OUTPUT



Foster City Hotel - Bay Area AQMD Air District, Annual

**Foster City Hotel**  
**Bay Area AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	104.00	Space	0.00	11,796.00	0
High Turnover (Sit Down Restaurant)	2.50	1000sqft	0.00	2,500.00	0
Hotel	155.00	Room	3.01	82,463.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	294	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

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Project Characteristics - PG&E's most recent CO2 Intensity Factor modified to value from 2016.

Land Use - Information obtained from the project plan. Lot area increased from 1.36 acres to 3+ acres and assigned to the hotel to generate appropriate default construction and equipment information.

Off-road Equipment - Added drill rig for pile driving

Grading - Assumed up to 5 feet of excavation to replace existing fill materials.

Vehicle Trips - According to focused transportation analysis from Fehr & Peers. Trip rates are conservative because they do not include trip reductions from walk, bike, transit trips.

Water And Wastewater - No lagoons or septic tanks are used for wastewater treatment in the project area.

Construction Off-road Equipment Mitigation - Mitigation Measure AIR-1: Tier 2 engines and level 3 PDF

Stationary Sources - Emergency Generators and Fire Pumps - It was conservatively assumed that a 1,000-kilowatt diesel emergency generator would be used.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
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tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblGrading	MaterialExported	0.00	13,000.00

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tblGrading	MaterialImported	0.00	13,000.00
tblLandUse	LandUseSquareFeet	41,600.00	11,796.00
tblLandUse	LandUseSquareFeet	225,060.00	82,463.00
tblLandUse	LotAcreage	0.94	0.00
tblLandUse	LotAcreage	0.06	0.00
tblLandUse	LotAcreage	5.17	3.01
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,341.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	158.37	139.50
tblVehicleTrips	ST_TR	8.19	8.54
tblVehicleTrips	SU_TR	131.84	116.13
tblVehicleTrips	SU_TR	5.95	6.20
tblVehicleTrips	WD_TR	127.15	112.00
tblVehicleTrips	WD_TR	8.17	8.52
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

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**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					
2020	0.1974	2.1783	1.5089	3.9400e-003	0.1315	0.0917	0.2232	0.0545	0.0861	0.1406	0.0000	357.3681	357.3681	0.0545	0.0000	358.7301
2021	0.5505	0.9658	0.9294	1.7400e-003	0.0211	0.0490	0.0701	5.7200e-003	0.0460	0.0517	0.0000	152.4462	152.4462	0.0309	0.0000	153.2180
<b>Maximum</b>	<b>0.5505</b>	<b>2.1783</b>	<b>1.5089</b>	<b>3.9400e-003</b>	<b>0.1315</b>	<b>0.0917</b>	<b>0.2232</b>	<b>0.0545</b>	<b>0.0861</b>	<b>0.1406</b>	<b>0.0000</b>	<b>357.3681</b>	<b>357.3681</b>	<b>0.0545</b>	<b>0.0000</b>	<b>358.7301</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					
2020	0.1113	2.4664	1.5981	3.9400e-003	0.1315	0.0127	0.1442	0.0545	0.0126	0.0671	0.0000	357.3679	357.3679	0.0545	0.0000	358.7299
2021	0.5100	1.2929	0.9988	1.7400e-003	0.0211	7.1800e-003	0.0283	5.7200e-003	7.1700e-003	0.0129	0.0000	152.4460	152.4460	0.0309	0.0000	153.2179
<b>Maximum</b>	<b>0.5100</b>	<b>2.4664</b>	<b>1.5981</b>	<b>3.9400e-003</b>	<b>0.1315</b>	<b>0.0127</b>	<b>0.1442</b>	<b>0.0545</b>	<b>0.0126</b>	<b>0.0671</b>	<b>0.0000</b>	<b>357.3679</b>	<b>357.3679</b>	<b>0.0545</b>	<b>0.0000</b>	<b>358.7299</b>

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	ROG	NOx	CO	SO2	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	16.93	-19.57	-6.50	0.00	0.00	85.86	41.20	0.00	85.02	58.39	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	6-1-2020	8-31-2020	1.1785	1.2429
2	9-1-2020	11-30-2020	0.7622	0.8704
3	12-1-2020	2-28-2021	0.7084	0.8570
4	3-1-2021	5-31-2021	0.6130	0.7835
5	6-1-2021	8-31-2021	0.4396	0.4458
		Highest	1.1785	1.2429



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**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3774	2.0000e-005	2.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9800e-003
Energy	0.0185	0.1682	0.1413	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	291.7907	291.7907	0.0142	5.5800e-003	293.8080
Mobile	0.3547	1.6674	3.5976	0.0121	1.0236	0.0111	1.0347	0.2747	0.0104	0.2852	0.0000	1,112.2873	1,112.2873	0.0439	0.0000	1,113.3844
Stationary	0.0550	0.2460	0.1403	2.6000e-004		8.0900e-003	8.0900e-003		8.0900e-003	8.0900e-003	0.0000	25.5325	25.5325	3.5800e-003	0.0000	25.6219
Waste						0.0000	0.0000		0.0000	0.0000	23.2648	0.0000	23.2648	1.3749	0.0000	57.6375
Water						0.0000	0.0000		0.0000	0.0000	1.6596	3.6113	5.2708	6.0700e-003	3.6800e-003	6.5200
<b>Total</b>	<b>0.8056</b>	<b>2.0816</b>	<b>3.8815</b>	<b>0.0134</b>	<b>1.0236</b>	<b>0.0320</b>	<b>1.0556</b>	<b>0.2747</b>	<b>0.0313</b>	<b>0.3060</b>	<b>24.9244</b>	<b>1,433.2264</b>	<b>1,458.1508</b>	<b>1.4427</b>	<b>9.2600e-003</b>	<b>1,496.9768</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3774	2.0000e-005	2.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9800e-003
Energy	0.0185	0.1682	0.1413	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	291.7907	291.7907	0.0142	5.5800e-003	293.8080
Mobile	0.3547	1.6674	3.5976	0.0121	1.0236	0.0111	1.0347	0.2747	0.0104	0.2852	0.0000	1,112.2873	1,112.2873	0.0439	0.0000	1,113.3844
Stationary	0.0550	0.2460	0.1403	2.6000e-004		8.0900e-003	8.0900e-003		8.0900e-003	8.0900e-003	0.0000	25.5325	25.5325	3.5800e-003	0.0000	25.6219
Waste						0.0000	0.0000		0.0000	0.0000	23.2648	0.0000	23.2648	1.3749	0.0000	57.6375
Water						0.0000	0.0000		0.0000	0.0000	1.3277	2.9343	4.2620	4.8600e-003	2.9500e-003	5.2617
<b>Total</b>	<b>0.8056</b>	<b>2.0816</b>	<b>3.8815</b>	<b>0.0134</b>	<b>1.0236</b>	<b>0.0320</b>	<b>1.0556</b>	<b>0.2747</b>	<b>0.0313</b>	<b>0.3060</b>	<b>24.5925</b>	<b>1,432.5495</b>	<b>1,457.1419</b>	<b>1.4415</b>	<b>8.5300e-003</b>	<b>1,495.7185</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>0.00</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>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.33</b>	<b>0.05</b>	<b>0.07</b>	<b>0.08</b>	<b>7.88</b>	<b>0.08</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2020	6/5/2020	5	5	
2	Grading	Grading	6/6/2020	6/17/2020	5	8	
3	Building Construction	Building Construction	6/18/2020	5/5/2021	5	230	
4	Paving	Paving	5/6/2021	5/31/2021	5	18	
5	Architectural Coating	Architectural Coating	6/1/2021	6/24/2021	5	18	

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

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 127,445; Non-Residential Outdoor: 42,482; Striped Parking Area: 708 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Bore/Drill Rigs	1	1.00	221	0.50
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	3,250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	41.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	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

Use DPF for Construction Equipment

**3.2 Site Preparation - 2020**

**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					0.0466	0.0000	0.0466	0.0251	0.0000	0.0251	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.1060	0.0538	1.0000e-004		5.4900e-003	5.4900e-003		5.0500e-003	5.0500e-003	0.0000	8.3577	8.3577	2.7000e-003	0.0000	8.4253
<b>Total</b>	<b>0.0102</b>	<b>0.1060</b>	<b>0.0538</b>	<b>1.0000e-004</b>	<b>0.0466</b>	<b>5.4900e-003</b>	<b>0.0521</b>	<b>0.0251</b>	<b>5.0500e-003</b>	<b>0.0301</b>	<b>0.0000</b>	<b>8.3577</b>	<b>8.3577</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>8.4253</b>

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**3.2 Site Preparation - 2020**

**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	0.0136	0.4751	0.0955	1.2800e-003	0.0275	1.5300e-003	0.0290	7.5500e-003	1.4700e-003	9.0100e-003	0.0000	124.5356	124.5356	6.4100e-003	0.0000	124.6959
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.1100e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3115	0.3115	1.0000e-005	0.0000	0.3117
<b>Total</b>	<b>0.0137</b>	<b>0.4752</b>	<b>0.0966</b>	<b>1.2800e-003</b>	<b>0.0278</b>	<b>1.5300e-003</b>	<b>0.0293</b>	<b>7.6400e-003</b>	<b>1.4700e-003</b>	<b>9.1100e-003</b>	<b>0.0000</b>	<b>124.8472</b>	<b>124.8472</b>	<b>6.4200e-003</b>	<b>0.0000</b>	<b>125.0076</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					0.0466	0.0000	0.0466	0.0251	0.0000	0.0251	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0200e-003	0.0843	0.0574	1.0000e-004		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	8.3577	8.3577	2.7000e-003	0.0000	8.4252
<b>Total</b>	<b>3.0200e-003</b>	<b>0.0843</b>	<b>0.0574</b>	<b>1.0000e-004</b>	<b>0.0466</b>	<b>3.5000e-004</b>	<b>0.0470</b>	<b>0.0251</b>	<b>3.5000e-004</b>	<b>0.0254</b>	<b>0.0000</b>	<b>8.3577</b>	<b>8.3577</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>8.4252</b>

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**3.2 Site Preparation - 2020**

**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	0.0136	0.4751	0.0955	1.2800e-003	0.0275	1.5300e-003	0.0290	7.5500e-003	1.4700e-003	9.0100e-003	0.0000	124.5356	124.5356	6.4100e-003	0.0000	124.6959
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.1100e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3115	0.3115	1.0000e-005	0.0000	0.3117
<b>Total</b>	<b>0.0137</b>	<b>0.4752</b>	<b>0.0966</b>	<b>1.2800e-003</b>	<b>0.0278</b>	<b>1.5300e-003</b>	<b>0.0293</b>	<b>7.6400e-003</b>	<b>1.4700e-003</b>	<b>9.1100e-003</b>	<b>0.0000</b>	<b>124.8472</b>	<b>124.8472</b>	<b>6.4200e-003</b>	<b>0.0000</b>	<b>125.0076</b>

**3.3 Grading - 2020**

**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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8500e-003	0.1073	0.0653	1.2000e-004		5.1400e-003	5.1400e-003		4.7300e-003	4.7300e-003	0.0000	10.8362	10.8362	3.5000e-003	0.0000	10.9238
<b>Total</b>	<b>9.8500e-003</b>	<b>0.1073</b>	<b>0.0653</b>	<b>1.2000e-004</b>	<b>0.0262</b>	<b>5.1400e-003</b>	<b>0.0314</b>	<b>0.0135</b>	<b>4.7300e-003</b>	<b>0.0182</b>	<b>0.0000</b>	<b>10.8362</b>	<b>10.8362</b>	<b>3.5000e-003</b>	<b>0.0000</b>	<b>10.9238</b>

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**3.3 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.7000e-004	1.7700e-003	1.0000e-005	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4984	0.4984	1.0000e-005	0.0000	0.4987
<b>Total</b>	<b>2.4000e-004</b>	<b>1.7000e-004</b>	<b>1.7700e-003</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>5.7000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4984</b>	<b>0.4984</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4987</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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1500e-003	0.1092	0.0785	1.2000e-004		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	10.8362	10.8362	3.5000e-003	0.0000	10.9238
<b>Total</b>	<b>4.1500e-003</b>	<b>0.1092</b>	<b>0.0785</b>	<b>1.2000e-004</b>	<b>0.0262</b>	<b>4.8000e-004</b>	<b>0.0267</b>	<b>0.0135</b>	<b>4.8000e-004</b>	<b>0.0140</b>	<b>0.0000</b>	<b>10.8362</b>	<b>10.8362</b>	<b>3.5000e-003</b>	<b>0.0000</b>	<b>10.9238</b>



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**3.3 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.7000e-004	1.7700e-003	1.0000e-005	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4984	0.4984	1.0000e-005	0.0000	0.4987
<b>Total</b>	<b>2.4000e-004</b>	<b>1.7000e-004</b>	<b>1.7700e-003</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>5.7000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4984</b>	<b>0.4984</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4987</b>

**3.4 Building Construction - 2020**

**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	0.1495	1.3526	1.1878	1.9000e-003		0.0788	0.0788		0.0741	0.0741	0.0000	163.2850	163.2850	0.0398	0.0000	164.2809
<b>Total</b>	<b>0.1495</b>	<b>1.3526</b>	<b>1.1878</b>	<b>1.9000e-003</b>		<b>0.0788</b>	<b>0.0788</b>		<b>0.0741</b>	<b>0.0741</b>	<b>0.0000</b>	<b>163.2850</b>	<b>163.2850</b>	<b>0.0398</b>	<b>0.0000</b>	<b>164.2809</b>

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**3.4 Building Construction - 2020**

**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	4.3600e-003	0.1302	0.0327	3.1000e-004	7.4000e-003	6.3000e-004	8.0300e-003	2.1400e-003	6.1000e-004	2.7500e-003	0.0000	29.5332	29.5332	1.5200e-003	0.0000	29.5713
Worker	9.5800e-003	6.8600e-003	0.0710	2.2000e-004	0.0228	1.5000e-004	0.0230	6.0800e-003	1.4000e-004	6.2200e-003	0.0000	20.0104	20.0104	4.8000e-004	0.0000	20.0225
<b>Total</b>	<b>0.0139</b>	<b>0.1370</b>	<b>0.1037</b>	<b>5.3000e-004</b>	<b>0.0302</b>	<b>7.8000e-004</b>	<b>0.0310</b>	<b>8.2200e-003</b>	<b>7.5000e-004</b>	<b>8.9700e-003</b>	<b>0.0000</b>	<b>49.5436</b>	<b>49.5436</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>49.5938</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	0.0762	1.6606	1.2601	1.9000e-003		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003	0.0000	163.2848	163.2848	0.0398	0.0000	164.2807
<b>Total</b>	<b>0.0762</b>	<b>1.6606</b>	<b>1.2601</b>	<b>1.9000e-003</b>		<b>9.5600e-003</b>	<b>9.5600e-003</b>		<b>9.5600e-003</b>	<b>9.5600e-003</b>	<b>0.0000</b>	<b>163.2848</b>	<b>163.2848</b>	<b>0.0398</b>	<b>0.0000</b>	<b>164.2807</b>

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**3.4 Building Construction - 2020**

**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	4.3600e-003	0.1302	0.0327	3.1000e-004	7.4000e-003	6.3000e-004	8.0300e-003	2.1400e-003	6.1000e-004	2.7500e-003	0.0000	29.5332	29.5332	1.5200e-003	0.0000	29.5713
Worker	9.5800e-003	6.8600e-003	0.0710	2.2000e-004	0.0228	1.5000e-004	0.0230	6.0800e-003	1.4000e-004	6.2200e-003	0.0000	20.0104	20.0104	4.8000e-004	0.0000	20.0225
<b>Total</b>	<b>0.0139</b>	<b>0.1370</b>	<b>0.1037</b>	<b>5.3000e-004</b>	<b>0.0302</b>	<b>7.8000e-004</b>	<b>0.0310</b>	<b>8.2200e-003</b>	<b>7.5000e-004</b>	<b>8.9700e-003</b>	<b>0.0000</b>	<b>49.5436</b>	<b>49.5436</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>49.5938</b>

**3.4 Building Construction - 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					
Off-Road	0.0846	0.7757	0.7376	1.2000e-003		0.0427	0.0427		0.0401	0.0401	0.0000	103.0786	103.0786	0.0249	0.0000	103.7003
<b>Total</b>	<b>0.0846</b>	<b>0.7757</b>	<b>0.7376</b>	<b>1.2000e-003</b>		<b>0.0427</b>	<b>0.0427</b>		<b>0.0401</b>	<b>0.0401</b>	<b>0.0000</b>	<b>103.0786</b>	<b>103.0786</b>	<b>0.0249</b>	<b>0.0000</b>	<b>103.7003</b>

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**3.4 Building Construction - 2021**

**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	2.2600e-003	0.0744	0.0186	1.9000e-004	4.6700e-003	1.6000e-004	4.8300e-003	1.3500e-003	1.5000e-004	1.5100e-003	0.0000	18.4653	18.4653	9.1000e-004	0.0000	18.4880
Worker	5.6000e-003	3.8600e-003	0.0409	1.3000e-004	0.0144	9.0000e-005	0.0145	3.8400e-003	9.0000e-005	3.9200e-003	0.0000	12.1875	12.1875	2.7000e-004	0.0000	12.1943
<b>Total</b>	<b>7.8600e-003</b>	<b>0.0782</b>	<b>0.0595</b>	<b>3.2000e-004</b>	<b>0.0191</b>	<b>2.5000e-004</b>	<b>0.0193</b>	<b>5.1900e-003</b>	<b>2.4000e-004</b>	<b>5.4300e-003</b>	<b>0.0000</b>	<b>30.6528</b>	<b>30.6528</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>30.6823</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	0.0481	1.0482	0.7954	1.2000e-003		6.0300e-003	6.0300e-003		6.0300e-003	6.0300e-003	0.0000	103.0785	103.0785	0.0249	0.0000	103.7002
<b>Total</b>	<b>0.0481</b>	<b>1.0482</b>	<b>0.7954</b>	<b>1.2000e-003</b>		<b>6.0300e-003</b>	<b>6.0300e-003</b>		<b>6.0300e-003</b>	<b>6.0300e-003</b>	<b>0.0000</b>	<b>103.0785</b>	<b>103.0785</b>	<b>0.0249</b>	<b>0.0000</b>	<b>103.7002</b>

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**3.4 Building Construction - 2021**

**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	2.2600e-003	0.0744	0.0186	1.9000e-004	4.6700e-003	1.6000e-004	4.8300e-003	1.3500e-003	1.5000e-004	1.5100e-003	0.0000	18.4653	18.4653	9.1000e-004	0.0000	18.4880
Worker	5.6000e-003	3.8600e-003	0.0409	1.3000e-004	0.0144	9.0000e-005	0.0145	3.8400e-003	9.0000e-005	3.9200e-003	0.0000	12.1875	12.1875	2.7000e-004	0.0000	12.1943
<b>Total</b>	<b>7.8600e-003</b>	<b>0.0782</b>	<b>0.0595</b>	<b>3.2000e-004</b>	<b>0.0191</b>	<b>2.5000e-004</b>	<b>0.0193</b>	<b>5.1900e-003</b>	<b>2.4000e-004</b>	<b>5.4300e-003</b>	<b>0.0000</b>	<b>30.6528</b>	<b>30.6528</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>30.6823</b>

**3.5 Paving - 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					
Off-Road	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7336	14.7336	4.6300e-003	0.0000	14.8493
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>9.8500e-003</b>	<b>0.0976</b>	<b>0.1103</b>	<b>1.7000e-004</b>		<b>5.2100e-003</b>	<b>5.2100e-003</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>	<b>0.0000</b>	<b>14.7336</b>	<b>14.7336</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8493</b>

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**3.5 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	3.8000e-004	4.0400e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2024	1.2024	3.0000e-005	0.0000	1.2031
<b>Total</b>	<b>5.5000e-004</b>	<b>3.8000e-004</b>	<b>4.0400e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2024</b>	<b>1.2024</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.2031</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	6.7700e-003	0.1448	0.1218	1.7000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	14.7335	14.7335	4.6300e-003	0.0000	14.8493
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>6.7700e-003</b>	<b>0.1448</b>	<b>0.1218</b>	<b>1.7000e-004</b>		<b>7.6000e-004</b>	<b>7.6000e-004</b>		<b>7.6000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>14.7335</b>	<b>14.7335</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8493</b>

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**3.5 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	3.8000e-004	4.0400e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2024	1.2024	3.0000e-005	0.0000	1.2031
<b>Total</b>	<b>5.5000e-004</b>	<b>3.8000e-004</b>	<b>4.0400e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2024</b>	<b>1.2024</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.2031</b>

**3.6 Architectural Coating - 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					
Archit. Coating	0.4455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
<b>Total</b>	<b>0.4475</b>	<b>0.0137</b>	<b>0.0164</b>	<b>3.0000e-005</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.3019</b>

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**3.6 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.5000e-004	1.6100e-003	1.0000e-005	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4810	0.4810	1.0000e-005	0.0000	0.4812
<b>Total</b>	<b>2.2000e-004</b>	<b>1.5000e-004</b>	<b>1.6100e-003</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>5.7000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4810</b>	<b>0.4810</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4812</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	0.4455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0300e-003	0.0212	0.0165	3.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
<b>Total</b>	<b>0.4465</b>	<b>0.0212</b>	<b>0.0165</b>	<b>3.0000e-005</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.3019</b>



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**3.6 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.5000e-004	1.6100e-003	1.0000e-005	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4810	0.4810	1.0000e-005	0.0000	0.4812
<b>Total</b>	<b>2.2000e-004</b>	<b>1.5000e-004</b>	<b>1.6100e-003</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>5.7000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4810</b>	<b>0.4810</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4812</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive 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	0.3547	1.6674	3.5976	0.0121	1.0236	0.0111	1.0347	0.2747	0.0104	0.2852	0.0000	1,112.2873	1,112.2873	0.0439	0.0000	1,113.3844
Unmitigated	0.3547	1.6674	3.5976	0.0121	1.0236	0.0111	1.0347	0.2747	0.0104	0.2852	0.0000	1,112.2873	1,112.2873	0.0439	0.0000	1,113.3844

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		
High Turnover (Sit Down Restaurant)	280.00	348.75	290.33	337,981	337,981
Hotel	1,320.60	1,323.70	961.00	2,412,288	2,412,288
<b>Total</b>	<b>1,600.60</b>	<b>1,672.45</b>	<b>1,251.33</b>	<b>2,750,269</b>	<b>2,750,269</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768
High Turnover (Sit Down Restaurant)	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768
Hotel	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	108.7249	108.7249	0.0107	2.2200e-003	109.6543
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	108.7249	108.7249	0.0107	2.2200e-003	109.6543
NaturalGas Mitigated	0.0185	0.1682	0.1413	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.0658	183.0658	3.5100e-003	3.3600e-003	184.1537
NaturalGas Unmitigated	0.0185	0.1682	0.1413	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.0658	183.0658	3.5100e-003	3.3600e-003	184.1537

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**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	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
High Turnover (Sit Down Restaurant)	419800	2.2600e-003	0.0206	0.0173	1.2000e-004		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	22.4021	22.4021	4.3000e-004	4.1000e-004	22.5353
Hotel	3.01072e+006	0.0162	0.1476	0.1240	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.6637	160.6637	3.0800e-003	2.9500e-003	161.6185
<b>Total</b>		<b>0.0185</b>	<b>0.1682</b>	<b>0.1413</b>	<b>1.0100e-003</b>		<b>0.0128</b>	<b>0.0128</b>		<b>0.0128</b>	<b>0.0128</b>	<b>0.0000</b>	<b>183.0658</b>	<b>183.0658</b>	<b>3.5100e-003</b>	<b>3.3600e-003</b>	<b>184.1537</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	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
High Turnover (Sit Down Restaurant)	419800	2.2600e-003	0.0206	0.0173	1.2000e-004		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	22.4021	22.4021	4.3000e-004	4.1000e-004	22.5353
Hotel	3.01072e+006	0.0162	0.1476	0.1240	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.6637	160.6637	3.0800e-003	2.9500e-003	161.6185
<b>Total</b>		<b>0.0185</b>	<b>0.1682</b>	<b>0.1413</b>	<b>1.0100e-003</b>		<b>0.0128</b>	<b>0.0128</b>		<b>0.0128</b>	<b>0.0128</b>	<b>0.0000</b>	<b>183.0658</b>	<b>183.0658</b>	<b>3.5100e-003</b>	<b>3.3600e-003</b>	<b>184.1537</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	69124.6	9.2182	9.1000e-004	1.9000e-004	9.2970
High Turnover (Sit Down Restaurant)	72450	9.6617	9.5000e-004	2.0000e-004	9.7442
Hotel	673723	89.8451	8.8600e-003	1.8300e-003	90.6130
<b>Total</b>		<b>108.7249</b>	<b>0.0107</b>	<b>2.2200e-003</b>	<b>109.6543</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	69124.6	9.2182	9.1000e-004	1.9000e-004	9.2970
High Turnover (Sit Down Restaurant)	72450	9.6617	9.5000e-004	2.0000e-004	9.7442
Hotel	673723	89.8451	8.8600e-003	1.8300e-003	90.6130
<b>Total</b>		<b>108.7249</b>	<b>0.0107</b>	<b>2.2200e-003</b>	<b>109.6543</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3774	2.0000e-005	2.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9800e-003
Unmitigated	0.3774	2.0000e-005	2.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9800e-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	0.0446					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2000e-004	2.0000e-005	2.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9800e-003
<b>Total</b>	<b>0.3774</b>	<b>2.0000e-005</b>	<b>2.4100e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.6700e-003</b>	<b>4.6700e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.9800e-003</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0446					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2000e-004	2.0000e-005	2.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9800e-003
<b>Total</b>	<b>0.3774</b>	<b>2.0000e-005</b>	<b>2.4100e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.6700e-003</b>	<b>4.6700e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.9800e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.2620	4.8600e-003	2.9500e-003	5.2617
Unmitigated	5.2708	6.0700e-003	3.6800e-003	6.5200

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
High Turnover (Sit Down Restaurant)	0.758834 / 0.0484362	0.8387	9.8000e-004	6.0000e-004	1.0406
Hotel	3.93185 / 0.436872	4.4322	5.0900e-003	3.0900e-003	5.4794
<b>Total</b>		<b>5.2708</b>	<b>6.0700e-003</b>	<b>3.6900e-003</b>	<b>6.5200</b>



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**7.2 Water by Land Use**

**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
High Turnover (Sit Down Restaurant)	0.607067 / 0.0484362	0.6754	7.8000e-004	4.8000e-004	0.8371
Hotel	3.14548 / 0.436872	3.5865	4.0700e-003	2.4700e-003	4.4246
<b>Total</b>		<b>4.2620</b>	<b>4.8500e-003</b>	<b>2.9500e-003</b>	<b>5.2617</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.2648	1.3749	0.0000	57.6375
Unmitigated	23.2648	1.3749	0.0000	57.6375

**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
High Turnover (Sit Down Restaurant)	29.75	6.0390	0.3569	0.0000	14.9613
Hotel	84.86	17.2258	1.0180	0.0000	42.6762
<b>Total</b>		<b>23.2648</b>	<b>1.3749</b>	<b>0.0000</b>	<b>57.6375</b>

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**8.2 Waste by Land Use**

**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
High Turnover (Sit Down Restaurant)	29.75	6.0390	0.3569	0.0000	14.9613
Hotel	84.86	17.2258	1.0180	0.0000	42.6762
<b>Total</b>		<b>23.2648</b>	<b>1.3749</b>	<b>0.0000</b>	<b>57.6375</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	1	50	1341	0.73	Diesel

**Boilers**

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

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Equipment Type	Number
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**10.1 Stationary Sources**

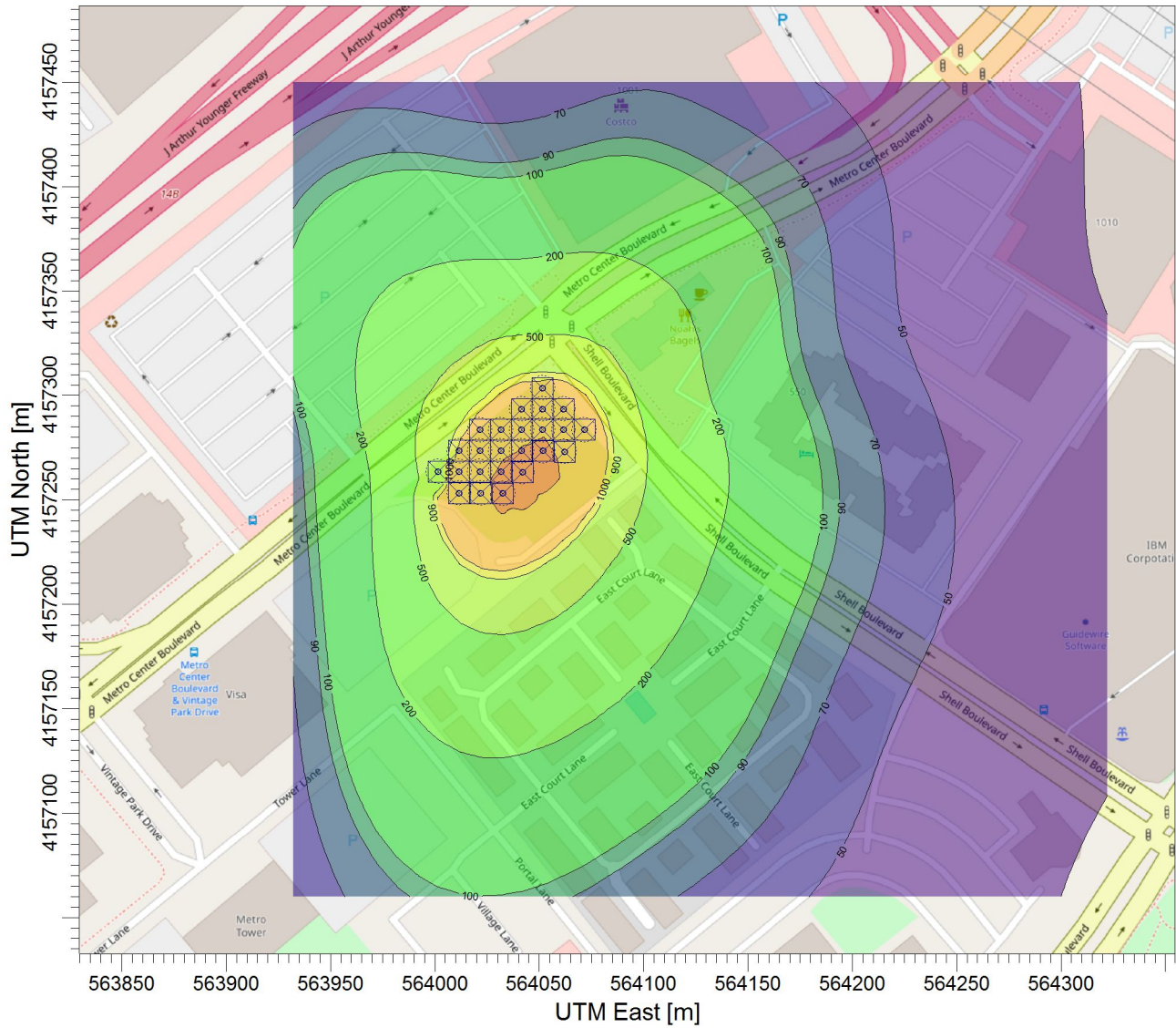
**Unmitigated/Mitigated**

	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 (750 - 9999 HP)	0.0550	0.2460	0.1403	2.6000e-004		8.0900e-003	8.0900e-003		8.0900e-003	8.0900e-003	0.0000	25.5325	25.5325	3.5800e-003	0.0000	25.6219
<b>Total</b>	<b>0.0550</b>	<b>0.2460</b>	<b>0.1403</b>	<b>2.6000e-004</b>		<b>8.0900e-003</b>	<b>8.0900e-003</b>		<b>8.0900e-003</b>	<b>8.0900e-003</b>	<b>0.0000</b>	<b>25.5325</b>	<b>25.5325</b>	<b>3.5800e-003</b>	<b>0.0000</b>	<b>25.6219</b>

**11.0 Vegetation**

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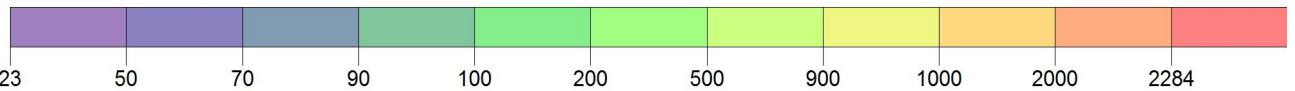
PROJECT TITLE:  
**Foster City Hotel Project**



PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL

ug/m<sup>3</sup>

Max: 2284 [ug/m<sup>3</sup>] at (564042.19, 4157260.00)



COMMENTS:	SOURCES: <b>24</b>	COMPANY NAME: <b>BASELINE Environmental Consulting</b>	
	RECEPTORS: <b>1600</b>	MODELER:	
	OUTPUT TYPE: <b>Concentration</b>	SCALE: 1:3,302	
	MAX: <b>2284 ug/m<sup>3</sup></b>	DATE: <b>11/11/2019</b>	PROJECT NO.:

**Summary of ISCST3 Model Parameters, Assumptions, and Results for DPM and PM<sub>2.5</sub> Emissions during Construction**

ISCST3 Model Parameters and Assumptions			
Source Type	Units	Value	Notes
<b>Volume Source: Off-Road Equipment Exhaust</b>			
Hours/Work Day	hours/day	10.00	Construction hours are limited to 7AM-5PM M-F
DPM Emission Rate	gram/second	0.006093	Exhaust PM <sub>10</sub> from off-road equipment
Number of Sources	count	24	SMAQMD, 2015
Emission Rate/Source	gram/second	0.000254	Scaling factor is (1/Emission Rate) to convert result from ISCST3
Release Height	meters	5.0	SMAQMD, 2015
Length of Side	meters	10.0	SMAQMD, 2015
Initial Lateral Dimension	meters	2.3	ISCST3 Calculator
Initial Vertical Dimension	meters	1.0	SMAQMD, 2015
ISCST3 Model Results			
Sensitive Receptor	Pollutant	Annual Average Concentration	Notes
MEIR	DPM (µg/m <sup>3</sup> )	0.1967	Nearest residential receptor under the unmitigated scenario
	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	0.1847	Nearest residential receptor under the unmitigated scenario
	DPM (µg/m <sup>3</sup> )	0.0246	Nearest residential receptor under the mitigated scenario
	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	0.0231	Nearest residential receptor under the mitigated scenario
MEIS	DPM (µg/m <sup>3</sup> )	0.0090	Nearest school receptor under the unmitigated scenario
	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	0.0085	Nearest school receptor under the unmitigated scenario
	DPM (µg/m <sup>3</sup> )	0.0011	Nearest school receptor under the mitigated scenario
	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	0.0011	Nearest school receptor under the mitigated scenario

Notes:

DPM = diesel particulate matter

PM<sub>10</sub> = particulate matter with aerodynamic resistance diameters equal to or less than 10 microns

PM<sub>2.5</sub> = particulate matter with aerodynamic resistance diameters equal to or less than 2.5 microns

µg/m<sup>3</sup> = micrograms per cubic meter

Sacramento Metropolitan Air Quality Management District (SMAQMD), 2015. *Guide to Air Quality Assessment in Sacramento County*. June.

**Summary of Health Risk Assessment at MEIR for DPM Emissions during Construction**

Health Risk Assessment Parameters and Results					
Unmitigated DPM Emissions					
Inhalation Cancer Risk Assessment for DPM	Units	Age Group			Notes
		3rd Trimester	0-2 Years	2-9 Years	
DPM Concentration (C)	µg/m <sup>3</sup>	0.197	0.197	0.197	ISCST3 Annual Average
Daily Breathing Rate (DBR)	L/kg-day	361	1090	861	95th percentile (OEHHA, 2015)
Inhalation absorption factor (A)	unitless	1.0	1.0	1.0	OEHHA, 2015
Exposure Frequency (EF)	unitless	0.96	0.96	0.96	350 days/365 days in a year (OEHHA, 2015)
Dose Conversion Factor (CF <sub>D</sub> )	mg-m <sup>3</sup> /µg-L	0.000001	0.000001	0.000001	Conversion of µg to mg and L to m <sup>3</sup>
Dose	mg/kg/day	0.000068	0.000206	0.000163	C*DBR*A*EF*CF <sub>D</sub> (OEHHA, 2015)
Cancer Potency Factor (CPF)	(mg/kg/day) <sup>-1</sup>	1.1	1.1	1.1	OEHHA, 2015
Age Sensitivity Factor (ASF)	unitless	10	10	3	OEHHA, 2015
Annual Exposure Duration (ED)	years	0.25	2.00	0.17	Based on total construction period of 26 months
Averaging Time (AT)	years	70	70	70	70 years for residents (OEHHA, 2015)
Fraction of time at home (FAH)	unitless	0.85	0.85	0.72	OEHHA, 2015.
Cancer Risk Conversion Factor (CF)	m <sup>3</sup> /L	1000000	1000000	1000000	Chances per million (OEHHA, 2015)
Cancer Risk	per million	2.27	54.93	0.92	D*CPF*ASF*ED/AT*FAH*CF (OEHHA, 2015)
Total Cancer Risk	per million	58.12			At MEIR location
Hazard Index for DPM	Units	Value	Notes		
Chronic REL	µg/m <sup>3</sup>	5.0	OEHHA, 2015		
Chronic Hazard Index for DPM	unitless	0.04	At MEIR location		
Mitigated DPM Emissions					
Inhalation Cancer Risk Assessment for DPM	Units	Age Group			Notes
		3rd Trimester	0-2 Years	2-9 Years	
DPM Concentration (C)	µg/m <sup>3</sup>	0.025	0.025	0.025	ISCST3 Annual Average
Daily Breathing Rate (DBR)	L/kg-day	361	1090	861	95th percentile (OEHHA, 2015)
Inhalation absorption factor (A)	unitless	1.0	1.0	1.0	OEHHA, 2015
Exposure Frequency (EF)	unitless	0.96	0.96	0.96	350 days/365 days in a year (OEHHA, 2015)
Dose Conversion Factor (CF <sub>D</sub> )	mg-m <sup>3</sup> /µg-L	0.000001	0.000001	0.000001	Conversion of µg to mg and L to m <sup>3</sup>
Dose	mg/kg/day	0.000009	0.000026	0.000020	C*DBR*A*EF*CF <sub>D</sub> (OEHHA, 2015)
Cancer Potency Factor (CPF)	(mg/kg/day) <sup>-1</sup>	1.1	1.1	1.1	OEHHA, 2015
Age Sensitivity Factor (ASF)	unitless	10	10	3	OEHHA, 2015
Annual Exposure Duration (ED)	years	0.25	2.00	0.17	Based on total construction period of 13 months
Averaging Time (AT)	years	70	70	70	70 years for residents (OEHHA, 2015)
Fraction of time at home (FAH)	unitless	0.85	0.85	0.72	OEHHA, 2015
Cancer Risk Conversion Factor (CF)	m <sup>3</sup> /L	1000000	1000000	1000000	Chances per million (OEHHA, 2015)
Cancer Risk	per million	0.28	6.88	0.12	D*CPF*ASF*ED/AT*FAH*CF (OEHHA, 2015)
Total Cancer Risk	per million	7.17			At MEIR location
Hazard Index for DPM	Units	Value	Notes		
Chronic REL	µg/m <sup>3</sup>	5.0	OEHHA, 2015		
Chronic Hazard Index for DPM	unitless	0.0049	At MEIR location		

Notes:

DPM = diesel particulate matter

REL = reference exposure level

µg/m<sup>3</sup> = micrograms per cubic meter

L/kg-day = liters per kilogram-day

m<sup>3</sup>/L = cubic meters per liter

(mg/kg/day)<sup>-1</sup> = 1/milligrams per kilograms per day

MEIR = maximum exposed individual resident

Office of Environmental Health Hazard Assessment (OEHHA), 2015. *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. February.

**Summary of Health Risk Assessment at MEIS for DPM Emissions during Construction**

Health Risk Assessment Parameters and Results				
Unmitigated DPM Emissions				
Inhalation Cancer Risk Assessment for DPM	Units	Age Group		Notes
		0-2 Years	2-9 Years	
DPM Concentration (C)	µg/m <sup>3</sup>	0.009	0.009	ISCST3 Annual Average
Worker Adjustment Factor (WAF)	unitless	2.9	2.9	OEHHA,2015 4-44 to 4-45
Daily Breathing Rate (DBR)	L/kg-8 Hr	1200	640	95th percentile, moderate intensity (OEHHA, 2015)
Inhalation absorption factor (A)	unitless	1.0	1.0	OEHHA, 2015
Exposure Frequency (EF)	unitless	0.68	0.68	250 days/365 days(OEHHA, 2015)
Dose Conversion Factor (CF <sub>D</sub> )	mg-m <sup>3</sup> /µg-L	0.000001	0.000001	Conversion of µg to mg and L to m <sup>3</sup>
Dose	mg/kg/day	0.000022	0.000012	C*WAF*DBR*A*EF*CF <sub>D</sub> (OEHHA, 2015)
Cancer Potency Factor (CPF)	(mg/kg/day) <sup>-1</sup>	1.1	1.1	OEHHA, 2015
Age Sensitivity Factor (ASF)	unitless	10	3	OEHHA, 2015
Annual Exposure Duration (ED)	years	1.50	0.67	Based on total construction period of 26months
Averaging Time (AT)	years	70	70	70 years for residents (OEHHA, 2015)
Cancer Risk Conversion Factor (CF)	m <sup>3</sup> /L	1000000	1000000	Chances per million (OEHHA, 2015)
Cancer Risk	per million	5.10	0.36	D*CPF*ASF*ED/AT*CF (OEHHA, 2015)
Total Cancer Risk	per million	5.46		At MEIS location
Hazard Index for DPM	Units	Value	Notes	
Chronic REL	µg/m <sup>3</sup>	5.0	OEHHA, 2015	
Chronic Hazard Index for DPM	unitless	0.00	At MEIS location	
Mitigated DPM Emissions				
Inhalation Cancer Risk Assessment for DPM	Units	Age Group		Notes
		0-2 Years	2-9 Years	
DPM Concentration (C)	µg/m <sup>3</sup>	0.001	0.001	ISCST3 Annual Average
Worker Adjustment Factor (WAF)	unitless	2.9	2.9	9 h/day, 5 days per week work schedule
Daily Breathing Rate (DBR)	L/kg-day	1200	640	95th percentile, moderate intensity (OEHHA, 2015)
Inhalation absorption factor (A)	unitless	1.0	1.0	OEHHA, 2015
Exposure Frequency (EF)	unitless	0.68	0.68	250 days/365 days(OEHHA, 2015)
Dose Conversion Factor (CF <sub>D</sub> )	mg-m <sup>3</sup> /µg-L	0.000001	0.000001	Conversion of µg to mg and L to m <sup>3</sup>
Dose	mg/kg/day	0.000003	0.000001	C*WAF*DBR*A*EF*CF <sub>D</sub> (OEHHA, 2015)
Cancer Potency Factor (CPF)	(mg/kg/day) <sup>-1</sup>	1.1	1.1	OEHHA, 2015
Age Sensitivity Factor (ASF)	unitless	10	3	OEHHA, 2015
Annual Exposure Duration (ED)	years	1.50	0.67	Based on total construction period of 28 months
Averaging Time (AT)	years	70	70	70 years for lifetime exposure (OEHHA, 2015)
Cancer Risk Conversion Factor (CF)	m <sup>3</sup> /L	1000000	1000000	Chances per million (OEHHA, 2015)
Cancer Risk	per million	0.64	0.05	D*CPF*ASF*ED/AT*CF (OEHHA, 2015)
Total Cancer Risk	per million	0.68		At MEIS location
Hazard Index for DPM	Units	Value	Notes	
Chronic REL	µg/m <sup>3</sup>	5.0	OEHHA, 2015	
Chronic Hazard Index for DPM	unitless	0.0002	At MEIS location	

Notes:

DPM = diesel particulate matter

REL = reference exposure level

µg/m<sup>3</sup> = micrograms per cubic meter

L/kg-day = liters per kilogram-day

m<sup>3</sup>/L = cubic meters per liter

(mg/kg/day)<sup>-1</sup> = 1/milligrams per kilograms per day

MEIS = maximum exposed individual student

Office of Environmental Health Hazard Assessment (OEHHA), 2015. *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. February.