

8520 Pardee Drive Cambria Hotel - Alameda County, Annual

**8520 Pardee Drive Cambria Hotel
Alameda County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	164.00	Space	1.48	65,600.00	0
Hotel	132.00	Room	1.52	83,283.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	210	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E's latest (2017) 2017 independently verified CO2 emissions rate from pge.com.

Land Use - Lot acreage for hotel remainder of 3 acres shown on plans after subtracting model default for parking lot. Building square footage per plans

Construction Phase -

Grading -

Vehicle Trips - Standard trip rates per occupied rooms modified to show 15% reduction due to 85% occupancy rate and a 23% trip reduction for mode shift per City of Oakland Transportation Impact Review Guidelines.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	191,664.00	83,283.00
tblLandUse	LotAcreage	4.40	1.52
tblProjectCharacteristics	CO2IntensityFactor	641.35	210
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	134.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,000.00
tblVehicleTrips	CC_TL	7.30	5.40
tblVehicleTrips	CNW_TL	7.30	5.40
tblVehicleTrips	CW_TL	9.50	7.03
tblVehicleTrips	ST_TR	8.19	6.88
tblVehicleTrips	SU_TR	5.95	5.55
tblVehicleTrips	WD_TR	8.17	8.01

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	0.1971	1.9691	1.5018	3.4600e-003	0.1276	0.0911	0.2188	0.0537	0.0855	0.1392				0.0519		311.1155
2021	0.9194	1.0083	0.9624	1.9200e-003	0.0315	0.0491	0.0807	8.5500e-003	0.0461	0.0547				0.0317		169.9170
Maximum	0.9194	1.9691	1.5018	3.4600e-003	0.1276	0.0911	0.2188	0.0537	0.0855	0.1392				0.0519		311.1155

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	0.1971	1.9691	1.5018	3.4600e-003	0.1276	0.0911	0.2188	0.0537	0.0855	0.1392				0.0519		311.1153
2021	0.9194	1.0083	0.9624	1.9200e-003	0.0315	0.0491	0.0807	8.5500e-003	0.0461	0.0547				0.0317		169.9168
Maximum	0.9194	1.9691	1.5018	3.4600e-003	0.1276	0.0911	0.2188	0.0537	0.0855	0.1392				0.0519		311.1153

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2020	8-31-2020	1.0750	1.0750
2	9-1-2020	11-30-2020	0.7997	0.7997
3	12-1-2020	2-28-2021	0.7437	0.7437
4	3-1-2021	5-31-2021	0.6414	0.6414
5	6-1-2021	8-31-2021	0.7835	0.7835
		Highest	1.0750	1.0750

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	0.3746	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005				1.0000e-005		5.6400e-003
Energy	0.0164	0.1491	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113				0.0124		231.0276
Mobile	0.2465	1.5181	2.2639	7.3400e-003	0.5204	7.3100e-003	0.5277	0.1399	6.8700e-003	0.1468				0.0362		677.6866
Stationary	5.5000e-003	0.0154	0.0200	3.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004				3.6000e-004		2.5603
Waste						0.0000	0.0000		0.0000	0.0000				0.8670		36.3447
Water						0.0000	0.0000		0.0000	0.0000				0.1094		6.4298
Total	0.6430	1.6826	2.4118	8.2600e-003	0.5204	0.0195	0.5399	0.1399	0.0190	0.1589				1.0252		954.0546

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	0.3746	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005				1.0000e-005		5.6400e-003
Energy	0.0164	0.1491	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113				0.0124		231.0276
Mobile	0.2465	1.5181	2.2639	7.3400e-003	0.5204	7.3100e-003	0.5277	0.1399	6.8700e-003	0.1468				0.0362		677.6866
Stationary	5.5000e-003	0.0154	0.0200	3.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004				3.6000e-004		2.5603
Waste						0.0000	0.0000		0.0000	0.0000				0.8670		36.3447
Water						0.0000	0.0000		0.0000	0.0000				0.1094		6.4298
Total	0.6430	1.6826	2.4118	8.2600e-003	0.5204	0.0195	0.5399	0.1399	0.0190	0.1589				1.0252		954.0546

	ROG	NOx	CO	SO2	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	Site Preparation	Site Preparation	6/1/2020	6/5/2020	5	3	
2	Grading	Grading	6/6/2020	6/17/2020	5	6	
3	Building Construction	Building Construction	6/18/2020	5/5/2021	5	220	
4	Paving	Paving	5/6/2021	5/31/2021	5	10	
5	Architectural Coating	Architectural Coating	6/1/2021	6/24/2021	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 1.48

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 124,925; Non-Residential Outdoor: 41,642; Striped Parking Area:

OffRoad Equipment

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	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

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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	63.00	24.00	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	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248				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				2.7000e-003		8.4253
Total	0.0102	0.1060	0.0538	1.0000e-004	0.0452	5.4900e-003	0.0507	0.0248	5.0500e-003	0.0299				2.7000e-003		8.4253

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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	1.6000e-004	1.1000e-004	1.1800e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004				1.0000e-005		0.3165
Total	1.6000e-004	1.1000e-004	1.1800e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004				1.0000e-005		0.3165

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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248				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				2.7000e-003		8.4252
Total	0.0102	0.1060	0.0538	1.0000e-004	0.0452	5.4900e-003	0.0507	0.0248	5.0500e-003	0.0299				2.7000e-003		8.4252

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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	1.6000e-004	1.1000e-004	1.1800e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004				1.0000e-005		0.3165
Total	1.6000e-004	1.1000e-004	1.1800e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004				1.0000e-005		0.3165

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
Off-Road	9.7200e-003	0.1055	0.0642	1.2000e-004		5.0900e-003	5.0900e-003		4.6900e-003	4.6900e-003				3.3700e-003		10.5078
Total	9.7200e-003	0.1055	0.0642	1.2000e-004	0.0262	5.0900e-003	0.0313	0.0135	4.6900e-003	0.0182				3.3700e-003		10.5078

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6500e-003	0.1944	0.0342	5.3000e-004	9.1800e-003	6.2000e-004	9.8000e-003	2.5900e-003	5.9000e-004	3.1800e-003				2.5700e-003		51.1062
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	2.1000e-004	1.5000e-004	1.5700e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004				1.0000e-005		0.4220
Total	5.8600e-003	0.1946	0.0358	5.3000e-004	9.6500e-003	6.2000e-004	0.0103	2.7200e-003	5.9000e-004	3.3100e-003				2.5800e-003		51.5281

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
Off-Road	9.7200e-003	0.1055	0.0642	1.2000e-004		5.0900e-003	5.0900e-003		4.6900e-003	4.6900e-003				3.3700e-003		10.5078
Total	9.7200e-003	0.1055	0.0642	1.2000e-004	0.0262	5.0900e-003	0.0313	0.0135	4.6900e-003	0.0182				3.3700e-003		10.5078

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6500e-003	0.1944	0.0342	5.3000e-004	9.1800e-003	6.2000e-004	9.8000e-003	2.5900e-003	5.9000e-004	3.1800e-003				2.5700e-003		51.1062
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	2.1000e-004	1.5000e-004	1.5700e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004				1.0000e-005		0.4220
Total	5.8600e-003	0.1946	0.0358	5.3000e-004	9.6500e-003	6.2000e-004	0.0103	2.7200e-003	5.9000e-004	3.3100e-003				2.5800e-003		51.5281

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				0.0398		164.2809
Total	0.1495	1.3526	1.1878	1.9000e-003		0.0788	0.0788		0.0741	0.0741				0.0398		164.2809

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
Vendor	6.3500e-003	0.1989	0.0429	4.7000e-004	0.0111	9.2000e-004	0.0120	3.2100e-003	8.8000e-004	4.1000e-003				2.5700e-003		44.8195
Worker	0.0154	0.0113	0.1162	3.5000e-004	0.0351	2.4000e-004	0.0354	9.3400e-003	2.2000e-004	9.5700e-003				8.1000e-004		31.2375
Total	0.0217	0.2102	0.1591	8.2000e-004	0.0462	1.1600e-003	0.0474	0.0126	1.1000e-003	0.0137				3.3800e-003		76.0570

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	0.1495	1.3526	1.1878	1.9000e-003		0.0788	0.0788		0.0741	0.0741				0.0398		164.2807
Total	0.1495	1.3526	1.1878	1.9000e-003		0.0788	0.0788		0.0741	0.0741				0.0398		164.2807

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
Vendor	6.3500e-003	0.1989	0.0429	4.7000e-004	0.0111	9.2000e-004	0.0120	3.2100e-003	8.8000e-004	4.1000e-003				2.5700e-003		44.8195
Worker	0.0154	0.0113	0.1162	3.5000e-004	0.0351	2.4000e-004	0.0354	9.3400e-003	2.2000e-004	9.5700e-003				8.1000e-004		31.2375
Total	0.0217	0.2102	0.1591	8.2000e-004	0.0462	1.1600e-003	0.0474	0.0126	1.1000e-003	0.0137				3.3800e-003		76.0570

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				0.0249		103.7003
Total	0.0846	0.7757	0.7376	1.2000e-003		0.0427	0.0427		0.0401	0.0401				0.0249		103.7003

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
Vendor	3.3100e-003	0.1142	0.0242	2.9000e-004	7.0100e-003	2.4000e-004	7.2500e-003	2.0300e-003	2.3000e-004	2.2600e-003				1.5400e-003		28.0169
Worker	8.9500e-003	6.3800e-003	0.0668	2.1000e-004	0.0222	1.5000e-004	0.0223	5.9000e-003	1.4000e-004	6.0300e-003				4.5000e-004		19.0323
Total	0.0123	0.1206	0.0910	5.0000e-004	0.0292	3.9000e-004	0.0296	7.9300e-003	3.7000e-004	8.2900e-003				1.9900e-003		47.0492

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	0.0846	0.7757	0.7376	1.2000e-003		0.0427	0.0427		0.0401	0.0401				0.0249		103.7002
Total	0.0846	0.7757	0.7376	1.2000e-003		0.0427	0.0427		0.0401	0.0401				0.0249		103.7002

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
Vendor	3.3100e-003	0.1142	0.0242	2.9000e-004	7.0100e-003	2.4000e-004	7.2500e-003	2.0300e-003	2.3000e-004	2.2600e-003				1.5400e-003		28.0169
Worker	8.9500e-003	6.3800e-003	0.0668	2.1000e-004	0.0222	1.5000e-004	0.0223	5.9000e-003	1.4000e-004	6.0300e-003				4.5000e-004		19.0323
Total	0.0123	0.1206	0.0910	5.0000e-004	0.0292	3.9000e-004	0.0296	7.9300e-003	3.7000e-004	8.2900e-003				1.9900e-003		47.0492

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				4.6300e-003		14.8493
Paving	3.4900e-003					0.0000	0.0000		0.0000	0.0000				0.0000		0.0000
Total	0.0133	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003				4.6300e-003		14.8493

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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	5.7000e-004	4.1000e-004	4.2900e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004				3.0000e-005		1.2220
Total	5.7000e-004	4.1000e-004	4.2900e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004				3.0000e-005		1.2220

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	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003				4.6300e-003		14.8493
Paving	3.4900e-003					0.0000	0.0000		0.0000	0.0000				0.0000		0.0000
Total	0.0133	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003				4.6300e-003		14.8493

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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	5.7000e-004	4.1000e-004	4.2900e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004				3.0000e-005		1.2220
Total	5.7000e-004	4.1000e-004	4.2900e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004				3.0000e-005		1.2220

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	0.8063					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				1.6000e-004		2.3019
Total	0.8083	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004				1.6000e-004		2.3019

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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	3.7000e-004	2.7000e-004	2.7900e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004				2.0000e-005		0.7943
Total	3.7000e-004	2.7000e-004	2.7900e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004				2.0000e-005		0.7943

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	0.8063					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				1.6000e-004		2.3019
Total	0.8083	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004				1.6000e-004		2.3019

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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	3.7000e-004	2.7000e-004	2.7900e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004				2.0000e-005		0.7943
Total	3.7000e-004	2.7000e-004	2.7900e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004				2.0000e-005		0.7943

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	0.2465	1.5181	2.2639	7.3400e-003	0.5204	7.3100e-003	0.5277	0.1399	6.8700e-003	0.1468				0.0362		677.6866
Unmitigated	0.2465	1.5181	2.2639	7.3400e-003	0.5204	7.3100e-003	0.5277	0.1399	6.8700e-003	0.1468				0.0362		677.6866

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	1,057.32	908.16	732.60	1,391,342	1,391,342
Parking Lot	0.00	0.00	0.00		
Total	1,057.32	908.16	732.60	1,391,342	1,391,342

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
Hotel	7.03	5.40	5.40	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739
Parking Lot	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739

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				9.2500e-003		67.8020
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000				9.2500e-003		67.8020
NaturalGas Mitigated	0.0164	0.1491	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113				3.1100e-003		163.2256
NaturalGas Unmitigated	0.0164	0.1491	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113				3.1100e-003		163.2256

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					
Hotel	3.04066e+006	0.0164	0.1491	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113				3.1100e-003		163.2256
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000				0.0000		0.0000
Total		0.0164	0.1491	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113				3.1100e-003		163.2256

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	3.04066e+006	0.0164	0.1491	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113				3.1100e-003		163.2256
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000				0.0000		0.0000
Total		0.0164	0.1491	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113				3.1100e-003		163.2256

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	680422		8.9500e-003		65.5888
Parking Lot	22960		3.0000e-004		2.2132
Total			9.2500e-003		67.8020

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	680422		8.9500e-003		65.5888
Parking Lot	22960		3.0000e-004		2.2132
Total			9.2500e-003		67.8020

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	0.3746	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005				1.0000e-005			5.6400e-003
Unmitigated	0.3746	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005				1.0000e-005			5.6400e-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	0.0448					0.0000	0.0000		0.0000	0.0000				0.0000			0.0000
Consumer Products	0.3295					0.0000	0.0000		0.0000	0.0000				0.0000			0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005				1.0000e-005			5.6400e-003
Total	0.3746	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005				1.0000e-005			5.6400e-003

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	0.0448					0.0000	0.0000		0.0000	0.0000				0.0000			0.0000
Consumer Products	0.3295					0.0000	0.0000		0.0000	0.0000				0.0000			0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005				1.0000e-005			5.6400e-003
Total	0.3746	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005				1.0000e-005			5.6400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated		0.1094		6.4298
Unmitigated		0.1094		6.4298

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	3.34841 / 0.372046		0.1094		6.4298
Parking Lot	0 / 0		0.0000		0.0000
Total			0.1094		6.4298

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	3.34841 / 0.372046		0.1094		6.4298
Parking Lot	0 / 0		0.0000		0.0000
Total			0.1094		6.4298

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated		0.8670		36.3447
Unmitigated		0.8670		36.3447

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	72.27		0.8670		36.3447
Parking Lot	0		0.0000		0.0000
Total			0.8670		36.3447

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	72.27		0.8670		36.3447
Parking Lot	0		0.0000		0.0000
Total			0.8670		36.3447

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	50	134	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 (400 - 475 HP)	5.5000e-003	0.0154	0.0200	3.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004				3.6000e-004			2.5603
Total	5.5000e-003	0.0154	0.0200	3.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004				3.6000e-004			2.5603