

Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

**Wheatland CAP (2030) - Reduction Strategy Baseline**  
**Feather River AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	0.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00



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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	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)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	Architectural Coating	Architectural Coating	1/10/2776	1/9/2776	5	0	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Architectural Coating - 2776**

**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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**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	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,513,869
City Park	255.15	3,071.25	2259.90	2,327,711	2,327,711
Elementary School	33,621.97	0.00	0.00	71,931,288	71,931,288
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	404,388,786
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,494,830
High School	21,100.93	7,153.69	2930.23	61,880,300	61,880,300
Junior High School	12,002.38	0.00	0.00	27,043,389	27,043,389
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,898,276
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	333,963,809
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	401,774,505
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,344,216,763</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>



Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

**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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,899.243 8	144.2952	3.4913	9,547.035 4
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4

Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Wheatland CAP (2030) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction		
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction	Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00	
No	Clean Paved Road	% PM Reduction	0.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
Yes	On-site Renewable		15.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**Wheatland CAP (2030) - EM-3 (commercial only)**  
**Feather River AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Regional Shopping Center	4,466.64	1000sqft	102.54	4,466,642.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Intensity Factors for CO2 adjusted based on PG&E RPS reductions

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Energy Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	360.00	1.00
tblLandUse	LandUseSquareFeet	4,466,640.00	4,466,642.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**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	111.1566	1.8100e-003	0.2007	2.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	0.3921	0.3921	1.0100e-003	0.0000	0.4174
Energy	1.4877	13.5242	11.3603	0.0812		1.0278	1.0278		1.0278	1.0278	0.0000	34,342.7961	34,342.7961	2.8579	0.8028	34,653.4873
Mobile	59.8353	592.6625	596.0416	3.3098	275.5587	1.8607	277.4195	73.9798	1.7398	75.7196	0.0000	306,980.0723	306,980.0723	15.0107	0.0000	307,355.3392
Waste						0.0000	0.0000		0.0000	0.0000	4,251.7350	0.0000	4,251.7350	251.2703	0.0000	10,533.4936
Water						0.0000	0.0000		0.0000	0.0000	1,090.5486	2,602.5601	3,693.1087	112.3515	2.7155	7,311.1094
<b>Total</b>	<b>172.4795</b>	<b>606.1886</b>	<b>607.6025</b>	<b>3.3910</b>	<b>275.5587</b>	<b>2.8893</b>	<b>278.4480</b>	<b>73.9798</b>	<b>2.7684</b>	<b>76.7482</b>	<b>5,342.2836</b>	<b>343,925.8206</b>	<b>349,268.1042</b>	<b>381.4914</b>	<b>3.5183</b>	<b>359,853.8469</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	111.1566	1.8100e-003	0.2007	2.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	0.3921	0.3921	1.0100e-003	0.0000	0.4174
Energy	1.4877	13.5242	11.3603	0.0812		1.0278	1.0278		1.0278	1.0278	0.0000	31,399.7900	31,399.7900	2.4716	0.7229	31,677.0010
Mobile	59.8353	592.6625	596.0416	3.3098	275.5587	1.8607	277.4195	73.9798	1.7398	75.7196	0.0000	306,980.0723	306,980.0723	15.0107	0.0000	307,355.3392
Waste						0.0000	0.0000		0.0000	0.0000	4,251.7350	0.0000	4,251.7350	251.2703	0.0000	10,533.4936
Water						0.0000	0.0000		0.0000	0.0000	1,090.5486	2,602.5601	3,693.1087	112.3515	2.7155	7,311.1094
<b>Total</b>	<b>172.4795</b>	<b>606.1886</b>	<b>607.6025</b>	<b>3.3910</b>	<b>275.5587</b>	<b>2.8893</b>	<b>278.4480</b>	<b>73.9798</b>	<b>2.7684</b>	<b>76.7482</b>	<b>5,342.2836</b>	<b>340,982.8146</b>	<b>346,325.0982</b>	<b>381.1051</b>	<b>3.4384</b>	<b>356,877.3606</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	0.86	0.84	0.10	2.27	0.83

**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	12/31/2018	12/31/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**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	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Site Preparation - 2018**

**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	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**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	59.8353	592.6625	596.0416	3.3098	275.5587	1.8607	277.4195	73.9798	1.7398	75.7196	0.0000	306,980.0723	306,980.0723	15.0107	0.0000	307,355.3392
Unmitigated	59.8353	592.6625	596.0416	3.3098	275.5587	1.8607	277.4195	73.9798	1.7398	75.7196	0.0000	306,980.0723	306,980.0723	15.0107	0.0000	307,355.3392

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	404,388,786
Regional Shopping Center	190,725.53	223,198.00	112737.99	334,011,668	334,011,668
<b>Total</b>	<b>383,518.90</b>	<b>266,196.34</b>	<b>131,090.94</b>	<b>738,400,454</b>	<b>738,400,454</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
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

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
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16,677.0344	16,677.0344	2.1894	0.4530	16,866.7555
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	19,620.0405	19,620.0405	2.5757	0.5329	19,843.2418
NaturalGas Mitigated	1.4877	13.5242	11.3603	0.0812		1.0278	1.0278		1.0278	1.0278	0.0000	14,722.7555	14,722.7555	0.2822	0.2699	14,810.2455
NaturalGas Unmitigated	1.4877	13.5242	11.3603	0.0812		1.0278	1.0278		1.0278	1.0278	0.0000	14,722.7555	14,722.7555	0.2822	0.2699	14,810.2455



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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Regional Shopping Center	4.77931e+007	0.2577	2.3428	1.9680	0.0141		0.1781	0.1781		0.1781	0.1781	0.0000	2,550.4202	2,550.4202	0.0489	0.0468	2,565.5761
<b>Total</b>		<b>1.4877</b>	<b>13.5242</b>	<b>11.3603</b>	<b>0.0812</b>		<b>1.0278</b>	<b>1.0278</b>		<b>1.0278</b>	<b>1.0278</b>	<b>0.0000</b>	<b>14,722.7555</b>	<b>14,722.7555</b>	<b>0.2822</b>	<b>0.2699</b>	<b>14,810.2455</b>

**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					
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Regional Shopping Center	4.77931e+007	0.2577	2.3428	1.9680	0.0141		0.1781	0.1781		0.1781	0.1781	0.0000	2,550.4202	2,550.4202	0.0489	0.0468	2,565.5761
<b>Total</b>		<b>1.4877</b>	<b>13.5242</b>	<b>11.3603</b>	<b>0.0812</b>		<b>1.0278</b>	<b>1.0278</b>		<b>1.0278</b>	<b>1.0278</b>	<b>0.0000</b>	<b>14,722.7555</b>	<b>14,722.7555</b>	<b>0.2822</b>	<b>0.2699</b>	<b>14,810.2455</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			
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Regional Shopping Center	3.64031e+007	3,647.5412	0.4789	0.0991	3,689.0364
<b>Total</b>		<b>19,620.0405</b>	<b>2.5757</b>	<b>0.5329</b>	<b>19,843.2418</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.35497e+008	13,576.6244	1.7824	0.3688	13,731.0746
Regional Shopping Center	3.09427e+007	3,100.4101	0.4070	0.0842	3,135.6809
<b>Total</b>		<b>16,677.0344</b>	<b>2.1894</b>	<b>0.4530</b>	<b>16,866.7555</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	111.1566	1.8100e-003	0.2007	2.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	0.3921	0.3921	1.0100e-003	0.0000	0.4174
Unmitigated	111.1566	1.8100e-003	0.2007	2.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	0.3921	0.3921	1.0100e-003	0.0000	0.4174

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	25.4295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	85.7087					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0184	1.8100e-003	0.2007	2.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	0.3921	0.3921	1.0100e-003	0.0000	0.4174
<b>Total</b>	<b>111.1566</b>	<b>1.8100e-003</b>	<b>0.2007</b>	<b>2.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>0.3921</b>	<b>0.3921</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.4174</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	25.4295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	85.7087					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0184	1.8100e-003	0.2007	2.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	0.3921	0.3921	1.0100e-003	0.0000	0.4174
<b>Total</b>	<b>111.1566</b>	<b>1.8100e-003</b>	<b>0.2007</b>	<b>2.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>0.3921</b>	<b>0.3921</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.4174</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3,693.108 7	112.3515	2.7155	7,311.1094
Unmitigated	3,693.108 7	112.3515	2.7155	7,311.1094

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3106.61 / 1904.05	3,337.647 6	101.5377	2.4541	6,607.416 3
Regional Shopping Center	330.855 / 202.782	355.4611	10.8138	0.2614	703.6931
<b>Total</b>		<b>3,693.108 7</b>	<b>112.3515</b>	<b>2.7155</b>	<b>7,311.109 4</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			
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Regional Shopping Center	330.855 / 202.782	355.4611	10.8138	0.2614	703.6931
<b>Total</b>		<b>3,693.1087</b>	<b>112.3515</b>	<b>2.7155</b>	<b>7,311.1094</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4,251.7350	251.2703	0.0000	10,533.4936
Unmitigated	4,251.7350	251.2703	0.0000	10,533.4936

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Regional Shopping Center	4689.97	952.0215	56.2629	0.0000	2,358.5930
<b>Total</b>		<b>4,251.7350</b>	<b>251.2703</b>	<b>0.0000</b>	<b>10,533.4936</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Regional Shopping Center	4689.97	952.0215	56.2629	0.0000	2,358.5930
<b>Total</b>		<b>4,251.7350</b>	<b>251.2703</b>	<b>0.0000</b>	<b>10,533.4936</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Wheatland CAP (2030) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction		
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction	Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00	
No	Clean Paved Road	% PM Reduction	0.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.04	0.22		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

### Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

### Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
Yes	On-site Renewable		100.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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Wheatland CAP (2030) EM-3 (residential only) - Feather River AQMD Air District, Annual

**Wheatland CAP (2030) EM-3 (residential only)**  
**Feather River AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Intensity Factors for CO2 adjusted based on PG&E RPS reductions

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Energy Mitigation -



## Wheatland CAP (2030) EM-3 (residential only) - Feather River AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**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	908.2514	16.4379	1,064.2149	1.7647		136.7079	136.7079		136.7079	136.7079	12,954.3226	5,584.9612	18,539.2837	12.0996	1.0190	19,145.4226
Energy	1.6955	14.4888	6.1654	0.0925		1.1714	1.1714		1.1714	1.1714	0.0000	27,330.0192	27,330.0192	1.7067	0.5942	27,549.7556
Mobile	25.3031	246.5289	308.5837	1.7811	160.2033	1.0175	161.2207	43.0101	0.9520	43.9621	0.0000	164,979.7286	164,979.7286	6.0505	0.0000	165,130.9901
Waste						0.0000	0.0000		0.0000	0.0000	2,491.5598	0.0000	2,491.5598	147.2470	0.0000	6,172.7339
Water						0.0000	0.0000		0.0000	0.0000	259.2271	623.6610	882.8881	26.7070	0.6456	1,742.9562
<b>Total</b>	<b>935.2500</b>	<b>277.4556</b>	<b>1,378.9640</b>	<b>3.6383</b>	<b>160.2033</b>	<b>138.8968</b>	<b>299.1000</b>	<b>43.0101</b>	<b>138.8314</b>	<b>181.8414</b>	<b>15,705.1094</b>	<b>198,518.3699</b>	<b>214,223.4793</b>	<b>193.8107</b>	<b>2.2588</b>	<b>219,741.8584</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	908.2514	16.4379	1,064.2149	1.7647		136.7079	136.7079		136.7079	136.7079	12,954.3226	5,584.9612	18,539.2837	12.0996	1.0190	19,145.4226
Energy	1.6955	14.4888	6.1654	0.0925		1.1714	1.1714		1.1714	1.1714	0.0000	16,779.5889	16,779.5889	0.3216	0.3076	16,879.3016
Mobile	25.3031	246.5289	308.5837	1.7811	160.2033	1.0175	161.2207	43.0101	0.9520	43.9621	0.0000	164,979.7286	164,979.7286	6.0505	0.0000	165,130.9901
Waste						0.0000	0.0000		0.0000	0.0000	2,491.5598	0.0000	2,491.5598	147.2470	0.0000	6,172.7339
Water						0.0000	0.0000		0.0000	0.0000	259.2271	623.6610	882.8881	26.7070	0.6456	1,742.9562
<b>Total</b>	<b>935.2500</b>	<b>277.4556</b>	<b>1,378.9640</b>	<b>3.6383</b>	<b>160.2033</b>	<b>138.8968</b>	<b>299.1000</b>	<b>43.0101</b>	<b>138.8314</b>	<b>181.8414</b>	<b>15,705.1094</b>	<b>187,967.9397</b>	<b>203,673.0491</b>	<b>192.4256</b>	<b>1.9722</b>	<b>209,071.4045</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	5.31	4.92	0.71	12.69	4.86

**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	4/28/2057	4/30/2057	5	1	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**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	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Site Preparation - 2057**

**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	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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
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					0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**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	25.3031	246.5289	308.5837	1.7811	160.2033	1.0175	161.2207	43.0101	0.9520	43.9621	0.0000	164,979.7286	164,979.7286	6.0505	0.0000	165,130.9901
Unmitigated	25.3031	246.5289	308.5837	1.7811	160.2033	1.0175	161.2207	43.0101	0.9520	43.9621	0.0000	164,979.7286	164,979.7286	6.0505	0.0000	165,130.9901

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,513,869
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	401,774,505
<b>Total</b>	<b>116,108.72</b>	<b>121,201.31</b>	<b>105,247.42</b>	<b>429,288,374</b>	<b>429,288,374</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
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**



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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Percent of Electricity Use Generated with Renewable 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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10,550.4302	10,550.4302	1.3851	0.2866	10,670.4539
NaturalGas Mitigated	1.6955	14.4888	6.1654	0.0925		1.1714	1.1714		1.1714	1.1714	0.0000	16,779.5889	16,779.5889	0.3216	0.3076	16,879.3016
NaturalGas Unmitigated	1.6955	14.4888	6.1654	0.0925		1.1714	1.1714		1.1714	1.1714	0.0000	16,779.5889	16,779.5889	0.3216	0.3076	16,879.3016

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>1.6955</b>	<b>14.4888</b>	<b>6.1655</b>	<b>0.0925</b>		<b>1.1714</b>	<b>1.1714</b>		<b>1.1714</b>	<b>1.1714</b>	<b>0.0000</b>	<b>16,779.5889</b>	<b>16,779.5889</b>	<b>0.3216</b>	<b>0.3076</b>	<b>16,879.3016</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>1.6955</b>	<b>14.4888</b>	<b>6.1655</b>	<b>0.0925</b>		<b>1.1714</b>	<b>1.1714</b>		<b>1.1714</b>	<b>1.1714</b>	<b>0.0000</b>	<b>16,779.5889</b>	<b>16,779.5889</b>	<b>0.3216</b>	<b>0.3076</b>	<b>16,879.3016</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>10,550.4302</b>	<b>1.3851</b>	<b>0.2866</b>	<b>10,670.4539</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Wheatland CAP (2030) EM-3 (residential only) - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	908.2514	16.4379	1,064.2149	1.7647		136.7079	136.7079		136.7079	136.7079	12,954.3226	5,584.9612	18,539.2837	12.0996	1.0190	19,145.4226
Unmitigated	908.2514	16.4379	1,064.2149	1.7647		136.7079	136.7079		136.7079	136.7079	12,954.3226	5,584.9612	18,539.2837	12.0996	1.0190	19,145.4226

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	33.9109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	84.6627					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.7779	1.0706	92.8723	4.9200e-003		0.5164	0.5164		0.5164	0.5164	0.0000	152.1072	152.1072	0.1449	0.0000	155.7302
<b>Total</b>	<b>908.2514</b>	<b>16.4379</b>	<b>1,064.2149</b>	<b>1.7647</b>		<b>136.7079</b>	<b>136.7079</b>		<b>136.7079</b>	<b>136.7079</b>	<b>12,954.3226</b>	<b>5,584.9612</b>	<b>18,539.2837</b>	<b>12.0996</b>	<b>1.0190</b>	<b>19,145.4226</b>

Wheatland CAP (2030) EM-3 (residential only) - Feather River AQMD Air District, Annual

**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	33.9109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	84.6627					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.7779	1.0706	92.8723	4.9200e-003		0.5164	0.5164		0.5164	0.5164	0.0000	152.1072	152.1072	0.1449	0.0000	155.7302
<b>Total</b>	<b>908.2514</b>	<b>16.4379</b>	<b>1,064.2149</b>	<b>1.7647</b>		<b>136.7079</b>	<b>136.7079</b>		<b>136.7079</b>	<b>136.7079</b>	<b>12,954.3226</b>	<b>5,584.9612</b>	<b>18,539.2837</b>	<b>12.0996</b>	<b>1.0190</b>	<b>19,145.4226</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Wheatland CAP (2030) EM-3 (residential only) - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	882.8881	26.7070	0.6456	1,742.9562
Unmitigated	882.8881	26.7070	0.6456	1,742.9562

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>882.8881</b>	<b>26.7070</b>	<b>0.6456</b>	<b>1,742.9562</b>

Wheatland CAP (2030) EM-3 (residential only) - Feather River AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>882.8881</b>	<b>26.7070</b>	<b>0.6456</b>	<b>1,742.9562</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,491.5598	147.2470	0.0000	6,172.7339
Unmitigated	2,491.5598	147.2470	0.0000	6,172.7339

Wheatland CAP (2030) EM-3 (residential only) - Feather River AQMD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>2,491.5598</b>	<b>147.2470</b>	<b>0.0000</b>	<b>6,172.7339</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>2,491.5598</b>	<b>147.2470</b>	<b>0.0000</b>	<b>6,172.7339</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Wheatland CAP (2030) EM-3 (residential only) - Feather River AQMD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Wheatland CAP (2030) - EM-5 - Feather River AQMD Air District, Annual

**Wheatland CAP (2030) - EM-5**  
**Feather River AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Wheatland CAP (2030) - EM-5 - Feather River AQMD Air District, Annual

Project Characteristics - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	0.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00



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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	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)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</b>

Wheatland CAP (2030) - EM-5 - Feather River AQMD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.3284	29.4519	19.5015	0.1816		2.2997	2.2997		2.2997	2.2997	0.0000	65,504.8432	65,504.8432	4.9065	1.4884	66,071.0522
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,144.8296</b>	<b>998.9364</b>	<b>2,120.3111</b>	<b>7.7879</b>	<b>501.6392</b>	<b>142.3132</b>	<b>643.9524</b>	<b>134.6760</b>	<b>142.0993</b>	<b>276.7754</b>	<b>22,606.9359</b>	<b>616,107.5226</b>	<b>638,714.4585</b>	<b>672.8834</b>	<b>5.9987</b>	<b>657,324.1500</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>0.05</b>	<b>0.46</b>	<b>0.15</b>	<b>0.36</b>	<b>0.00</b>	<b>0.25</b>	<b>0.06</b>	<b>0.00</b>	<b>0.25</b>	<b>0.13</b>	<b>0.00</b>	<b>1.02</b>	<b>0.98</b>	<b>0.04</b>	<b>2.06</b>	<b>0.96</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	Architectural Coating	Architectural Coating	1/10/2776	1/9/2776	5	0	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





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**3.2 Architectural Coating - 2776**

**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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**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	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,513,869
City Park	255.15	3,071.25	2259.90	2,327,711	2,327,711
Elementary School	33,621.97	0.00	0.00	71,931,288	71,931,288
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	404,388,786
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,494,830
High School	21,100.93	7,153.69	2930.23	61,880,300	61,880,300
Junior High School	12,002.38	0.00	0.00	27,043,389	27,043,389
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,898,276
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	333,963,809
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	401,774,505
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,344,216,763</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	32,564.69 53	32,564.69 53	4.2751	0.8845	32,935.15 74	
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	33,739.90 62	33,739.90 62	4.4294	0.9164	34,123.73 77	
NaturalGas Mitigated	3.3284	29.4519	19.5015	0.1816			2.2997	2.2997		2.2997	2.2997	0.0000	32,940.14 79	32,940.14 79	0.6314	0.6039	33,135.89 47
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099			2.6590	2.6590		2.6590	2.6590	0.0000	38,086.96 60	38,086.96 60	0.7300	0.6983	38,313.29 78

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.40834e+007	0.0759	0.6489	0.2761	4.1400e-003		0.0525	0.0525		0.0525	0.0525	0.0000	751.5425	751.5425	0.0144	0.0138	756.0085
City Park	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
Elementary School	4.7135e+007	0.2542	2.3105	1.9409	0.0139		0.1756	0.1756		0.1756	0.1756	0.0000	2,515.3052	2,515.3052	0.0482	0.0461	2,530.2524
General Office Building	1.9462e+008	1.0494	9.5402	8.0138	0.0572		0.7251	0.7251		0.7251	0.7251	0.0000	10,385.6604	10,385.6604	0.1991	0.1904	10,447.3772
Government Office Building	970038	5.2300e-003	0.0476	0.0399	2.9000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	51.7649	51.7649	9.9000e-004	9.5000e-004	52.0725
High School	3.54108e+007	0.1909	1.7358	1.4581	0.0104		0.1319	0.1319		0.1319	0.1319	0.0000	1,889.6533	1,889.6533	0.0362	0.0346	1,900.8826
Junior High School	1.8841e+007	0.1016	0.9236	0.7758	5.5400e-003		0.0702	0.0702		0.0702	0.0702	0.0000	1,005.4295	1,005.4295	0.0193	0.0184	1,011.4042
Place of Worship	4.01109e+006	0.0216	0.1966	0.1652	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	214.0473	214.0473	4.1000e-003	3.9200e-003	215.3193
Regional Shopping Center	4.20117e+007	0.2265	2.0594	1.7299	0.0124		0.1565	0.1565		0.1565	0.1565	0.0000	2,241.9023	2,241.9023	0.0430	0.0411	2,255.2248
Single Family Housing	2.60192e+008	1.4030	11.9893	5.1018	0.0765		0.9693	0.9693		0.9693	0.9693	0.0000	13,884.8427	13,884.8427	0.2661	0.2546	13,967.3534
<b>Total</b>		<b>3.3284</b>	<b>29.4519</b>	<b>19.5015</b>	<b>0.1816</b>		<b>2.2996</b>	<b>2.2996</b>		<b>2.2996</b>	<b>2.2996</b>	<b>0.0000</b>	<b>32,940.1479</b>	<b>32,940.1479</b>	<b>0.6314</b>	<b>0.6039</b>	<b>33,135.8947</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.12216e+006	513.2334	0.0674	0.0139	519.0720
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.45971e+007	1,462.6104	0.1920	0.0397	1,479.2494
General Office Building	1.52539e+008	15,284.2107	2.0065	0.4151	15,458.0867
Government Office Building	760296	76.1806	0.0100	2.0700e-003	77.0472
High School	1.09663e+007	1,098.8037	0.1443	0.0299	1,111.3039
Junior High School	5.83483e+006	584.6414	0.0768	0.0159	591.2924
Place of Worship	1.86719e+006	187.0901	0.0246	5.0800e-003	189.2185
Regional Shopping Center	3.49643e+007	3,503.3737	0.4599	0.0952	3,543.2288
Single Family Housing	9.83502e+007	9,854.5513	1.2937	0.2677	9,966.6585
<b>Total</b>		<b>32,564.6953</b>	<b>4.2751</b>	<b>0.8845</b>	<b>32,935.1574</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



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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	1,044.7507	16.4401	1,064.4624	1.7647			136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647			136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,899.243 8	144.2952	3.4913	9,547.035 4
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Wheatland CAP (2030) - EM-5 - Feather River AQMD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</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**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	3.48	3.48
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	13.51	13.53	13.74	13.51	13.51	13.51	0.00	13.51	13.51	13.51	13.52	13.51
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	15.00	
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	



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**Wheatland CAP (2030) - EM-6 and EM-8**  
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Energy Mitigation - Accounts for installation of energy-efficient lighting fixtures for all external lighting and installation of E-Star compliant appliances

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	0.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00



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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	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)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	68,098.7340	68,098.7340	4.6700	1.5134	68,666.4853
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>618,701.4134</b>	<b>641,308.3492</b>	<b>672.6469</b>	<b>6.0237</b>	<b>659,919.5831</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	0.60	0.58	0.07	1.65	0.57

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/10/2776	1/9/2776	5	0	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Architectural Coating - 2776**

**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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**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	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,513,869
City Park	255.15	3,071.25	2259.90	2,327,711	2,327,711
Elementary School	33,621.97	0.00	0.00	71,931,288	71,931,288
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	404,388,786
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,494,830
High School	21,100.93	7,153.69	2930.23	61,880,300	61,880,300
Junior High School	12,002.38	0.00	0.00	27,043,389	27,043,389
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,898,276
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	333,963,809
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	401,774,505
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,344,216,763</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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Install High Efficiency Lighting  
 Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	30,011.7680	30,011.7680	3.9400	0.8152	30,353.1876
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	4.92116e+006	493.0933	0.0647	0.0134	498.7028
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.30163e+007	1,304.2101	0.1712	0.0354	1,319.0470
General Office Building	1.40365e+008	14,064.3811	1.8464	0.3820	14,224.3801
Government Office Building	705498	70.6899	9.2800e-003	1.9200e-003	71.4940
High School	9.77862e+006	979.8035	0.1286	0.0266	990.9500
Junior High School	5.20292e+006	521.3249	0.0684	0.0142	527.2556
Place of Worship	1.72463e+006	172.8049	0.0227	4.6900e-003	174.7708
Regional Shopping Center	3.01835e+007	3,024.3392	0.3970	0.0822	3,058.7446
Single Family Housing	9.36253e+007	9,381.1212	1.2316	0.2548	9,487.8426
<b>Total</b>		<b>30,011.7681</b>	<b>3.9400</b>	<b>0.8152</b>	<b>30,353.1876</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Wheatland CAP (2030) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,899.243 8	144.2952	3.4913	9,547.035 4
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4

## Wheatland CAP (2030) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

Wheatland CAP (2030) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Wheatland CAP (2030) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

## Wheatland CAP (2030) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

Wheatland CAP (2030) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Wheatland CAP (2030) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.05	11.05	11.05	11.05	11.05
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

### Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

### Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24	0.00	
Yes	Install High Efficiency Lighting	35.00	
No	On-site Renewable	0.00	0.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher	General Office Building	30.00
ClothWasher	Regional Shopping Center	30.00
DishWasher	General Office Building	15.00
DishWasher	Regional Shopping Center	15.00
Fan	General Office Building	50.00
Fan	Regional Shopping Center	50.00
Refrigerator	General Office Building	15.00
Refrigerator	Regional Shopping Center	15.00

### Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

### Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	





Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.62	8.62	8.61	8.33	8.62
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	29.36	29.36	29.35	27.27	29.48	29.48	0.00	29.36	29.36	29.31	28.83	29.36
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

### Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

### Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	30.00	
No	Install High Efficiency Lighting	0.00	
No	On-site Renewable	0.00	0.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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Wheatland CAP (2030) - EM-7 - Feather River AQMD Air District, Annual

**Wheatland CAP (2030) - EM-7**  
**Feather River AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	87.12	1000sqft	2.00	87,120.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Energy Mitigation - Assumes Tier 2 compliance

Energy Use -

## Wheatland CAP (2030) - EM-7 - Feather River AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	43,560.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	130,680.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	6.00	0.00

## 2.0 Emissions Summary

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Wheatland CAP (2030) - EM-7 - Feather River AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**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	0.4413	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5600e-003	1.5600e-003	0.0000	0.0000	1.6600e-003
Energy	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	140.2814	140.2814	0.0116	3.2700e-003	141.5476
Mobile	0.7481	7.4358	7.0961	0.0390	3.1701	0.0218	3.1919	0.8511	0.0204	0.8715	0.0000	3,616.6072	3,616.6072	0.1896	0.0000	3,621.3459
Waste						0.0000	0.0000		0.0000	0.0000	16.4463	0.0000	16.4463	0.9720	0.0000	40.7451
Water						0.0000	0.0000		0.0000	0.0000	5.4908	13.1036	18.5944	0.5657	0.0137	36.8106
<b>Total</b>	<b>1.1955</b>	<b>7.4916</b>	<b>7.1437</b>	<b>0.0393</b>	<b>3.1701</b>	<b>0.0261</b>	<b>3.1962</b>	<b>0.8511</b>	<b>0.0246</b>	<b>0.8757</b>	<b>21.9371</b>	<b>3,769.9937</b>	<b>3,791.9308</b>	<b>1.7388</b>	<b>0.0169</b>	<b>3,840.4508</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	0.4413	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5600e-003	1.5600e-003	0.0000	0.0000	1.6600e-003
Energy	4.3300e-003	0.0394	0.0331	2.4000e-004		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003	0.0000	115.6096	115.6096	0.0104	2.7600e-003	116.6919
Mobile	0.7481	7.4358	7.0961	0.0390	3.1701	0.0218	3.1919	0.8511	0.0204	0.8715	0.0000	3,616.6072	3,616.6072	0.1896	0.0000	3,621.3459
Waste						0.0000	0.0000		0.0000	0.0000	16.4463	0.0000	16.4463	0.9720	0.0000	40.7451
Water						0.0000	0.0000		0.0000	0.0000	5.4908	13.1036	18.5944	0.5657	0.0137	36.8106
<b>Total</b>	<b>1.1937</b>	<b>7.4752</b>	<b>7.1300</b>	<b>0.0392</b>	<b>3.1701</b>	<b>0.0248</b>	<b>3.1949</b>	<b>0.8511</b>	<b>0.0234</b>	<b>0.8745</b>	<b>21.9371</b>	<b>3,745.3219</b>	<b>3,767.2590</b>	<b>1.7376</b>	<b>0.0164</b>	<b>3,815.5952</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>0.15</b>	<b>0.22</b>	<b>0.19</b>	<b>0.23</b>	<b>0.00</b>	<b>4.80</b>	<b>0.04</b>	<b>0.00</b>	<b>5.08</b>	<b>0.14</b>	<b>0.00</b>	<b>0.65</b>	<b>0.65</b>	<b>0.07</b>	<b>3.01</b>	<b>0.65</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	Architectural Coating	Architectural Coating	1/10/2776	1/9/2776	5	0	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Architectural Coating - 2776**

**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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**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	0.7481	7.4358	7.0961	0.0390	3.1701	0.0218	3.1919	0.8511	0.0204	0.8715	0.0000	3,616.6072	3,616.6072	0.1896	0.0000	3,621.3459
Unmitigated	0.7481	7.4358	7.0961	0.0390	3.1701	0.0218	3.1919	0.8511	0.0204	0.8715	0.0000	3,616.6072	3,616.6072	0.1896	0.0000	3,621.3459

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,494,830
Total	6,005.18	0.00	0.00	8,494,830	8,494,830

**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
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	72.7500	72.7500	9.5500e-003	1.9800e-003	73.5776
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	79.6112	79.6112	0.0105	2.1600e-003	80.5169
NaturalGas Mitigated	4.3300e-003	0.0394	0.0331	2.4000e-004		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003	0.0000	42.8596	42.8596	8.2000e-004	7.9000e-004	43.1143
NaturalGas Unmitigated	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307



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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
<b>Total</b>		<b>6.1300e-003</b>	<b>0.0557</b>	<b>0.0468</b>	<b>3.3000e-004</b>		<b>4.2400e-003</b>	<b>4.2400e-003</b>		<b>4.2400e-003</b>	<b>4.2400e-003</b>	<b>0.0000</b>	<b>60.6702</b>	<b>60.6702</b>	<b>1.1600e-003</b>	<b>1.1100e-003</b>	<b>61.0307</b>

**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					
Government Office Building	803159	4.3300e-003	0.0394	0.0331	2.4000e-004		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003	0.0000	42.8596	42.8596	8.2000e-004	7.9000e-004	43.1143
<b>Total</b>		<b>4.3300e-003</b>	<b>0.0394</b>	<b>0.0331</b>	<b>2.4000e-004</b>		<b>2.9900e-003</b>	<b>2.9900e-003</b>		<b>2.9900e-003</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>42.8596</b>	<b>42.8596</b>	<b>8.2000e-004</b>	<b>7.9000e-004</b>	<b>43.1143</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			
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
<b>Total</b>		<b>79.6112</b>	<b>0.0105</b>	<b>2.1600e-003</b>	<b>80.5169</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	726058	72.7500	9.5500e-003	1.9800e-003	73.5776
<b>Total</b>		<b>72.7500</b>	<b>9.5500e-003</b>	<b>1.9800e-003</b>	<b>73.5776</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	0.4413	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5600e-003	1.5600e-003	0.0000	0.0000	1.6600e-003
Unmitigated	0.4413	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5600e-003	1.5600e-003	0.0000	0.0000	1.6600e-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	0.1010					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3403					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5600e-003	1.5600e-003	0.0000	0.0000	1.6600e-003
<b>Total</b>	<b>0.4413</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5600e-003</b>	<b>1.5600e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6600e-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	0.1010					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3403					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5600e-003	1.5600e-003	0.0000	0.0000	1.6600e-003
<b>Total</b>	<b>0.4413</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5600e-003</b>	<b>1.5600e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	18.5944	0.5657	0.0137	36.8106
Unmitigated	18.5944	0.5657	0.0137	36.8106

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
<b>Total</b>		<b>18.5944</b>	<b>0.5657</b>	<b>0.0137</b>	<b>36.8106</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			
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
<b>Total</b>		<b>18.5944</b>	<b>0.5657</b>	<b>0.0137</b>	<b>36.8106</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	16.4463	0.9720	0.0000	40.7451
Unmitigated	16.4463	0.9720	0.0000	40.7451

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
<b>Total</b>		<b>16.4463</b>	<b>0.9720</b>	<b>0.0000</b>	<b>40.7451</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
<b>Total</b>		<b>16.4463</b>	<b>0.9720</b>	<b>0.0000</b>	<b>40.7451</b>

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.32	0.30	0.69	0.76	0.79	0.79	0.00	0.76	0.76	0.24	0.00	0.76
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
Yes	Land Use	Integrate Below Market Rate Housing	0.01	22.60		
	Land Use	Land Use SubTotal	0.01			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00	
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00	0.00	
No	Transit Improvements	Expand Transit Network	0.00	0.00	
No	Transit Improvements	Increase Transit Frequency	0.00		0.00
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.01		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge		0.00	
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.01		

### Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

### Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Mobile Land Use Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00





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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
Year	tons/yr										MT/yr					
2049	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2051	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2052	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2053	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2054	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2055	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2056	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2057	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2058	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2059	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2061	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Maximum</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**2.1 Overall Construction**

**Mitigated Construction**





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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
Year	tons/yr										MT/yr					
2054	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2055	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2056	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2057	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2058	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2059	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2061	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Maximum</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.4362	950.2219	1,029.2208	5.7972	497.1044	3.2787	500.3831	133.4585	3.0665	136.5250	0.0000	537,420.3312	537,420.3312	23.8320	0.0000	538,016.1312
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.0355</b>	<b>1,000.7237</b>	<b>2,116.2898</b>	<b>7.7719</b>	<b>497.1044</b>	<b>142.6465</b>	<b>639.7509</b>	<b>133.4585</b>	<b>142.4342</b>	<b>275.8928</b>	<b>22,606.9359</b>	<b>618,331.4786</b>	<b>640,938.4144</b>	<b>673.0785</b>	<b>6.1250</b>	<b>659,590.6152</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>0.03</b>	<b>0.28</b>	<b>0.34</b>	<b>0.57</b>	<b>0.90</b>	<b>0.02</b>	<b>0.71</b>	<b>0.90</b>	<b>0.02</b>	<b>0.45</b>	<b>0.00</b>	<b>0.66</b>	<b>0.64</b>	<b>0.01</b>	<b>0.00</b>	<b>0.62</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	Architectural Coating	Architectural Coating	12/31/2018	2/25/2061	5	11000	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





































































































































































































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**3.2 Architectural Coating - 2061**

**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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
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					0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	96.4362	950.2219	1,029.2208	5.7972	497.1044	3.2787	500.3831	133.4585	3.0665	136.5250	0.0000	537,420.3312	537,420.3312	23.8320	0.0000	538,016.1312
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,265,144
City Park	255.15	3,071.25	2259.90	2,327,711	2,306,668
Elementary School	33,621.97	0.00	0.00	71,931,288	71,281,029
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	400,733,112
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,418,036
High School	21,100.93	7,153.69	2930.23	61,880,300	61,320,902
Junior High School	12,002.38	0.00	0.00	27,043,389	26,798,916
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,853,996
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	330,944,777
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	398,142,463
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,332,065,044</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

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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	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099			2.6590	2.6590		2.6590	2.6590	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099			2.6590	2.6590		2.6590	2.6590	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>



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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,899.243 8	144.2952	3.4913	9,547.035 4
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>



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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</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**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	3.59	3.28	7.61	8.40	8.73	8.74	0.00	8.37	8.37	2.68	0.00	8.37
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
Yes	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.10			

No	Neighborhood Enhancements	Improve Pedestrian Network	0.00		
No	Neighborhood Enhancements	Provide Traffic Calming Measures	0.00		
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
Yes	Parking Policy Pricing	Limit Parking Supply	0.00	0.00	
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00	0.00	
No	Transit Improvements	Expand Transit Network	0.00	0.00	
No	Transit Improvements	Increase Transit Frequency	0.00		0.00
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.10		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge		0.00	
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.10		

### Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

### Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Mobile Land Use Mitigation -

Energy Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	0.00
tblConstructionPhase	PhaseEndDate	2/25/2061	12/30/2018
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	93.2749	921.8228	957.5144	5.3510	451.4753	3.0164	454.4917	121.2084	2.8207	124.0291	0.0000	496,185.7383	496,185.7383	23.2504	0.0000	496,766.9978
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,141.8741</b>	<b>972.3245</b>	<b>2,044.5834</b>	<b>7.3256</b>	<b>451.4753</b>	<b>142.3841</b>	<b>593.8594</b>	<b>121.2084</b>	<b>142.1885</b>	<b>263.3969</b>	<b>22,606.9359</b>	<b>577,096.8856</b>	<b>599,703.8215</b>	<b>672.4969</b>	<b>6.1250</b>	<b>618,341.4818</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	0.30	3.11	3.71	6.28	10.00	0.20	7.83	10.00	0.19	4.96	0.00	7.28	7.03	0.09	0.00	6.83

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/31/2018	12/30/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





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**3.2 Architectural Coating - 2018**

**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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	93.2749	921.8228	957.5144	5.3510	451.4753	3.0164	454.4917	121.2084	2.8207	124.0291	0.0000	496,185.7383	496,185.7383	23.2504	0.0000	496,766.9978
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	24,762,482
City Park	255.15	3,071.25	2259.90	2,327,711	2,094,939
Elementary School	33,621.97	0.00	0.00	71,931,288	64,738,159
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	363,949,908
Government Office Building	6,005.18	0.00	0.00	8,494,830	7,645,347
High School	21,100.93	7,153.69	2930.23	61,880,300	55,692,270
Junior High School	12,002.38	0.00	0.00	27,043,389	24,339,050
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,408,449
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	300,567,429
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	361,597,054
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,209,795,087</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

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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	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>



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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,899.243 8	144.2952	3.4913	9,547.035 4
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>



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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</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**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	25.00
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Energy Mitigation -

Waste Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	0.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	6,189.1498	0.0000	6,189.1498	365.7683	0.0000	15,333.3567
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>20,543.8859</b>	<b>622,429.5516</b>	<b>642,973.4375</b>	<b>551.2136</b>	<b>6.1250</b>	<b>658,579.0144</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	9.13	0.00	0.32	18.11	0.00	0.77

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/10/2776	1/9/2776	5	0	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





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**3.2 Architectural Coating - 2776**

**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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**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	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,513,869
City Park	255.15	3,071.25	2259.90	2,327,711	2,327,711
Elementary School	33,621.97	0.00	0.00	71,931,288	71,931,288
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	404,388,786
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,494,830
High School	21,100.93	7,153.69	2930.23	61,880,300	61,880,300
Junior High School	12,002.38	0.00	0.00	27,043,389	27,043,389
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,898,276
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	333,963,809
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	401,774,505
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,344,216,763</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>



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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,899.243 8	144.2952	3.4913	9,547.035 4
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6,189.149 8	365.7683	0.0000	15,333.35 67
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>



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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	386.4	78.4357	4.6354	0.0000	194.3212
City Park	8.7075	1.7675	0.1045	0.0000	4.3790
Elementary School	2124.52	431.2594	25.4867	0.0000	1,068.4269
General Office Building	12191.6	2,474.7851	146.2556	0.0000	6,131.1754
Government Office Building	60.765	12.3348	0.7290	0.0000	30.5588
High School	1596.07	323.9888	19.1472	0.0000	802.6685
Junior High School	849.225	172.3850	10.1877	0.0000	427.0765
Place of Worship	936.225	190.0452	11.2314	0.0000	470.8290
Regional Shopping Center	3516.98	713.9141	42.1911	0.0000	1,768.6921
Single Family Housing	8819.28	1,790.2341	105.7998	0.0000	4,435.2293
<b>Total</b>		<b>6,189.1498</b>	<b>365.7683</b>	<b>0.0000</b>	<b>15,333.3567</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**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.72	0.66	1.52	1.68	1.75	1.75	0.00	1.67	1.67	0.54	0.00	1.67
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.02			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	4.50			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00			2.00
No	Commute	Provide Ride Sharing Program	10.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.02		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Mobile Land Use Mitigation -

Energy Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	0.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.0553	946.8001	1,020.5807	5.7435	491.6064	3.2471	494.8536	131.9825	3.0369	135.0194	0.0000	532,451.8710	532,451.8710	23.7619	0.0000	533,045.9190
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,144.6545</b>	<b>997.3018</b>	<b>2,107.6497</b>	<b>7.7181</b>	<b>491.6064</b>	<b>142.6149</b>	<b>634.2213</b>	<b>131.9825</b>	<b>142.4046</b>	<b>274.3871</b>	<b>22,606.9359</b>	<b>613,363.0184</b>	<b>635,969.9542</b>	<b>673.0085</b>	<b>6.1250</b>	<b>654,620.4030</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>0.06</b>	<b>0.62</b>	<b>0.74</b>	<b>1.26</b>	<b>2.00</b>	<b>0.04</b>	<b>1.57</b>	<b>2.00</b>	<b>0.04</b>	<b>0.99</b>	<b>0.00</b>	<b>1.46</b>	<b>1.41</b>	<b>0.02</b>	<b>0.00</b>	<b>1.37</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	Architectural Coating	Architectural Coating	12/31/2018	12/30/2018	5	0	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





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**3.2 Architectural Coating - 2018**

**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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	96.0553	946.8001	1,020.5807	5.7435	491.6064	3.2471	494.8536	131.9825	3.0369	135.0194	0.0000	532,451.8710	532,451.8710	23.7619	0.0000	533,045.9190
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	26,963,592
City Park	255.15	3,071.25	2259.90	2,327,711	2,281,156
Elementary School	33,621.97	0.00	0.00	71,931,288	70,492,662
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	396,301,010
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,324,933
High School	21,100.93	7,153.69	2930.23	61,880,300	60,642,694
Junior High School	12,002.38	0.00	0.00	27,043,389	26,502,521
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,800,311
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	327,284,533
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	393,739,015
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,317,332,428</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

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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	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>



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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,899.243 8	144.2952	3.4913	9,547.035 4
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>



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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</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**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	1.80	1.64	3.80	4.20	4.36	4.37	0.00	4.19	4.19	1.34	0.00	4.18
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
Yes	Neighborhood Enhancements	Provide Traffic Calming Measures	0.25	25.00	25.00
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.05		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.05		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.05		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Mobile Land Use Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00





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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
Year	tons/yr										MT/yr					
2049	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2051	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2052	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2053	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2054	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2055	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2056	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2057	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2058	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2059	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2061	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Maximum</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**2.1 Overall Construction**

**Mitigated Construction**







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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
Year	tons/yr										MT/yr					
2054	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2055	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2056	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2057	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2058	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2059	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2061	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Maximum</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	95.0127	937.4336	996.9308	5.5963	476.5573	3.1606	479.7179	127.9422	2.9558	130.8980	0.0000	518,852.0713	518,852.0713	23.5701	0.0000	519,441.3235
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,143.6119</b>	<b>987.9353</b>	<b>2,083.9998</b>	<b>7.5709</b>	<b>476.5573</b>	<b>142.5283</b>	<b>619.0856</b>	<b>127.9422</b>	<b>142.3236</b>	<b>270.2658</b>	<b>22,606.9359</b>	<b>599,763.2186</b>	<b>622,370.1545</b>	<b>672.8166</b>	<b>6.1250</b>	<b>641,015.8075</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>0.15</b>	<b>1.56</b>	<b>1.86</b>	<b>3.14</b>	<b>5.00</b>	<b>0.10</b>	<b>3.92</b>	<b>5.00</b>	<b>0.09</b>	<b>2.48</b>	<b>0.00</b>	<b>3.64</b>	<b>3.51</b>	<b>0.05</b>	<b>0.00</b>	<b>3.42</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	Architectural Coating	Architectural Coating	12/31/2018	2/25/2061	5	11000	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





































































































































































































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**3.2 Architectural Coating - 2061**

**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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
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					0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	95.0127	937.4336	996.9308	5.5963	476.5573	3.1606	479.7179	127.9422	2.9558	130.8980	0.0000	518,852.0713	518,852.0713	23.5701	0.0000	519,441.3235
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	26,138,176
City Park	255.15	3,071.25	2259.90	2,327,711	2,211,325
Elementary School	33,621.97	0.00	0.00	71,931,288	68,334,724
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	384,169,347
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,070,088
High School	21,100.93	7,153.69	2930.23	61,880,300	58,786,285
Junior High School	12,002.38	0.00	0.00	27,043,389	25,691,219
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,653,362
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	317,265,619
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	381,685,780
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,277,005,925</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

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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	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>



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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,899.243 8	144.2952	3.4913	9,547.035 4
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4

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**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**



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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</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**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.16	0.14	0.33	0.37	0.38	0.38	0.00	0.37	0.37	0.12	0.00	0.37
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00	
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00	0.00	
Yes	Transit Improvements	Expand Transit Network	0.00	50.00	
No	Transit Improvements	Increase Transit Frequency	0.00		0.00
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge		0.00	
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		



No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Mobile Land Use Mitigation -

Energy Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	1.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.5976	951.6711	1,032.8798	5.8200	499.4327	3.2921	502.7249	134.0836	3.0790	137.1627	0.0000	539,524.4242	539,524.4242	23.8617	0.0000	540,120.9662
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.1968</b>	<b>1,002.1728</b>	<b>2,119.9488</b>	<b>7.7946</b>	<b>499.4327</b>	<b>142.6599</b>	<b>642.0926</b>	<b>134.0836</b>	<b>142.4468</b>	<b>276.5304</b>	<b>22,606.9359</b>	<b>620,435.5716</b>	<b>643,042.5074</b>	<b>673.1082</b>	<b>6.1250</b>	<b>661,695.4502</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>0.01</b>	<b>0.14</b>	<b>0.16</b>	<b>0.28</b>	<b>0.44</b>	<b>0.01</b>	<b>0.34</b>	<b>0.44</b>	<b>0.01</b>	<b>0.22</b>	<b>0.00</b>	<b>0.32</b>	<b>0.31</b>	<b>0.00</b>	<b>0.00</b>	<b>0.30</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	Architectural Coating	Architectural Coating	12/31/2018	12/31/2018	5	1	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Architectural Coating - 2018**

**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Expand Transit Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	96.5976	951.6711	1,032.8798	5.8200	499.4327	3.2921	502.7249	134.0836	3.0790	137.1627	0.0000	539,524.424	539,524.424	23.8617	0.0000	540,120.9662
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,392,848
City Park	255.15	3,071.25	2259.90	2,327,711	2,317,472
Elementary School	33,621.97	0.00	0.00	71,931,288	71,614,895
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	402,610,062
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,457,465
High School	21,100.93	7,153.69	2930.23	61,880,300	61,608,116
Junior High School	12,002.38	0.00	0.00	27,043,389	26,924,437
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,876,731
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	332,494,853
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	400,007,280
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,338,304,158</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

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**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	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>



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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,899.243 8	144.2952	3.4913	9,547.035 4
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**



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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</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**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.02	0.02	0.05	0.06	0.06	0.06	0.00	0.06	0.06	0.02	0.00	0.06
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00	
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00	0.00	
No	Transit Improvements	Expand Transit Network	0.00	0.00	
Yes	Transit Improvements	Increase Transit Frequency	0.00	>= 50%	25.00
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge		0.00	
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		



No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

### Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

### Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Mobile Land Use Mitigation -

Energy Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	1.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7273	952.8363	1,035.8220	5.8383	501.3050	3.3029	504.6079	134.5863	3.0891	137.6754	0.0000	541,216.3459	541,216.3459	23.8855	0.0000	541,813.4844
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3265</b>	<b>1,003.3380</b>	<b>2,122.8910</b>	<b>7.8130</b>	<b>501.3050</b>	<b>142.6706</b>	<b>643.9756</b>	<b>134.5863</b>	<b>142.4569</b>	<b>277.0431</b>	<b>22,606.9359</b>	<b>622,127.4932</b>	<b>644,734.4291</b>	<b>673.1321</b>	<b>6.1250</b>	<b>663,387.9684</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	0.02	0.02	0.04	0.07	0.00	0.05	0.07	0.00	0.03	0.00	0.05	0.05	0.00	0.00	0.05

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/31/2018	12/31/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Architectural Coating - 2018**

**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Transit Frequency

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	96.7273	952.8363	1,035.8220	5.8383	501.3050	3.3029	504.6079	134.5863	3.0891	137.6754	0.0000	541,216.3459	541,216.3459	23.8855	0.0000	541,813.4844
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,495,536
City Park	255.15	3,071.25	2259.90	2,327,711	2,326,160
Elementary School	33,621.97	0.00	0.00	71,931,288	71,883,359
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	404,119,336
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,489,169
High School	21,100.93	7,153.69	2930.23	61,880,300	61,839,068
Junior High School	12,002.38	0.00	0.00	27,043,389	27,025,369
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,895,013
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	333,741,284
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	401,506,796
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,343,321,091</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

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**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	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>



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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,899.243 8	144.2952	3.4913	9,547.035 4
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**



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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Wheatland CAP (2030) - TM-3b - Feather River AQMD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	1.80	1.64	3.80	4.20	4.36	4.37	0.00	4.19	4.19	1.34	0.00	4.18
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.05	10.00	
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.05		
No	Transit Improvements	Provide BRT System	0.00	0.00	
No	Transit Improvements	Expand Transit Network	0.00	0.00	
No	Transit Improvements	Increase Transit Frequency	0.00		0.00
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.05		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge		0.00	
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		



No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.05		

### Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

### Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**Wheatland CAP (2030) - TM-4**  
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Mobile Land Use Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00





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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
Year	tons/yr										MT/yr					
2049	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2051	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2052	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2053	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2054	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2055	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2056	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2057	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2058	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2059	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2061	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Maximum</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**2.1 Overall Construction**

**Mitigated Construction**







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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
Year	tons/yr										MT/yr					
2054	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2055	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2056	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2057	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2058	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2059	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2061	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Maximum</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	95.0127	937.4336	996.9308	5.5963	476.5573	3.1606	479.7179	127.9422	2.9558	130.8980	0.0000	518,852.0713	518,852.0713	23.5701	0.0000	519,441.3235
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,143.6119</b>	<b>987.9353</b>	<b>2,083.9998</b>	<b>7.5709</b>	<b>476.5573</b>	<b>142.5283</b>	<b>619.0856</b>	<b>127.9422</b>	<b>142.3236</b>	<b>270.2658</b>	<b>22,606.9359</b>	<b>599,763.2186</b>	<b>622,370.1545</b>	<b>672.8166</b>	<b>6.1250</b>	<b>641,015.8075</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>0.15</b>	<b>1.56</b>	<b>1.86</b>	<b>3.14</b>	<b>5.00</b>	<b>0.10</b>	<b>3.92</b>	<b>5.00</b>	<b>0.09</b>	<b>2.48</b>	<b>0.00</b>	<b>3.64</b>	<b>3.51</b>	<b>0.05</b>	<b>0.00</b>	<b>3.42</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	Architectural Coating	Architectural Coating	12/31/2018	2/25/2061	5	11000	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





































































































































































































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**3.2 Architectural Coating - 2061**

**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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
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					0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Limit Parking Supply

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	95.0127	937.4336	996.9308	5.5963	476.5573	3.1606	479.7179	127.9422	2.9558	130.8980	0.0000	518,852.0713	518,852.0713	23.5701	0.0000	519,441.3235
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	26,138,176
City Park	255.15	3,071.25	2259.90	2,327,711	2,211,325
Elementary School	33,621.97	0.00	0.00	71,931,288	68,334,724
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	384,169,347
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,070,088
High School	21,100.93	7,153.69	2930.23	61,880,300	58,786,285
Junior High School	12,002.38	0.00	0.00	27,043,389	25,691,219
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,653,362
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	317,265,619
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	381,685,780
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,277,005,925</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N



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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	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099			2.6590	2.6590		2.6590	2.6590	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099			2.6590	2.6590		2.6590	2.6590	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,899.243 8	144.2952	3.4913	9,547.035 4
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4



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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Wheatland CAP (2030) - TM-4 - Feather River AQMD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**



Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.32	4.51	0.02	0.17	2.34
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	0.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**Wheatland CAP (2030) - WM-2**  
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Energy Mitigation -

Water Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	0.00
tblConstructionPhase	PhaseEndDate	2/25/2061	12/30/2018
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,277.7146	4,678.1281	144.2662	3.4853	9,323.4042
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,208.4358</b>	<b>644,815.3717</b>	<b>673.1073</b>	<b>6.1190</b>	<b>663,466.5021</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>0.00</b>	<b>0.04</b>	<b>0.03</b>	<b>0.00</b>	<b>0.10</b>	<b>0.03</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	Architectural Coating	Architectural Coating	12/31/2018	12/30/2018	5	0	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Architectural Coating - 2018**

**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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**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	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,513,869
City Park	255.15	3,071.25	2259.90	2,327,711	2,327,711
Elementary School	33,621.97	0.00	0.00	71,931,288	71,931,288
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	404,388,786
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,494,830
High School	21,100.93	7,153.69	2930.23	61,880,300	61,880,300
Junior High School	12,002.38	0.00	0.00	27,043,389	27,043,389
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,898,276
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	333,963,809
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	401,774,505
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,344,216,763</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy



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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,678.128 1	144.2662	3.4853	9,323.404 2
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4



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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 36.8035	75.6215	2.3847	0.0576	152.3949
City Park	0 / 128.68	45.1274	5.9200e-003	1.2300e-003	45.6408
Elementary School	63.1843 / 129.979	99.8854	2.0693	0.0508	166.7522
General Office Building	3106.61 / 1523.24	3,204.0994	101.5201	2.4505	6,472.3489
Government Office Building	17.3072 / 8.48613	17.8504	0.5656	0.0137	36.0581
High School	54.356 / 111.818	85.9291	1.7802	0.0437	143.4531
Junior High School	17.9609 / 36.9481	28.3936	0.5882	0.0144	47.4013
Place of Worship	6.85227 / 8.57412	8.8959	0.2242	5.4500e-003	16.1255
Regional Shopping Center	330.808 / 162.203	341.1893	10.8104	0.2609	689.2096
Single Family Housing	744.124 / 375.297	771.1362	24.3175	0.5871	1,554.0198
<b>Total</b>		<b>4,678.1281</b>	<b>144.2662</b>	<b>3.4853</b>	<b>9,323.4042</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

## Wheatland CAP (2030) - WM-2 - Feather River AQMD Air District, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Wheatland CAP (2030) - WM-2 - Feather River AQMD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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## Wheatland CAP (2030) - RWM-3b - Feather River AQMD Air District, Annual

**Wheatland CAP (2030) - RWM-3b**  
**Feather River AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Wheatland CAP (2030) - RWM-3b - Feather River AQMD Air District, Annual

Project Characteristics - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Energy Mitigation -

Water Mitigation -



## Wheatland CAP (2030) - RWM-3b - Feather River AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	0.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,454.6071	4,855.0207	144.2894	3.4901	9,502.3092
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,385.3284</b>	<b>644,992.2643</b>	<b>673.1305</b>	<b>6.1238</b>	<b>663,645.4071</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	0.00	0.02	0.01

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/10/2776	1/9/2776	5	0	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Architectural Coating - 2776**

**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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**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	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,513,869
City Park	255.15	3,071.25	2259.90	2,327,711	2,327,711
Elementary School	33,621.97	0.00	0.00	71,931,288	71,931,288
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	404,388,786
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,494,830
High School	21,100.93	7,153.69	2930.23	61,880,300	61,880,300
Junior High School	12,002.38	0.00	0.00	27,043,389	27,043,389
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,898,276
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	333,963,809
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	401,774,505
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,344,216,763</b>

**4.3 Trip Type Information**



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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Reclaimed Water



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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,855.020 7	144.2894	3.4901	9,502.309 2
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 44.1642	78.2028	2.3850	0.0576	155.0056
City Park	0 / 154.416	54.1529	7.1100e-003	1.4700e-003	54.7690
Elementary School	63.1843 / 155.975	109.0020	2.0705	0.0510	175.9725
General Office Building	3106.61 / 1827.89	3,310.9380	101.5342	2.4534	6,580.4029
Government Office Building	17.3072 / 10.1834	18.4456	0.5657	0.0137	36.6601
High School	54.356 / 134.182	93.7719	1.7812	0.0439	151.3851
Junior High School	17.9609 / 44.3378	30.9851	0.5886	0.0145	50.0223
Place of Worship	6.85227 / 10.2889	9.4973	0.2242	5.4700e-003	16.7338
Regional Shopping Center	330.808 / 194.643	352.5660	10.8119	0.2613	700.7157
Single Family Housing	744.124 / 450.357	797.4592	24.3210	0.5878	1,580.6422
<b>Total</b>		<b>4,855.0207</b>	<b>144.2894</b>	<b>3.4901</b>	<b>9,502.3092</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</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**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.90	0.00	0.03	0.47
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

### Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
Yes	Use Reclaimed Water	0.00	10.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

### Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**



Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.90	0.00	0.03	0.47
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

### Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
Yes	Use Reclaimed Water	0.00	10.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

### Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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## Wheatland CAP (2030) - RWM-3b - Feather River AQMD Air District, Annual

**Wheatland CAP (2030) - RWM-3b**  
**Feather River AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Wheatland CAP (2030) - RWM-3b - Feather River AQMD Air District, Annual

Project Characteristics - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Energy Mitigation -

Water Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	0.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,454.6071	4,855.0207	144.2894	3.4901	9,502.3092
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,385.3284</b>	<b>644,992.2643</b>	<b>673.1305</b>	<b>6.1238</b>	<b>663,645.4071</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>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>0.02</b>	<b>0.01</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	Architectural Coating	Architectural Coating	1/10/2776	1/9/2776	5	0	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Architectural Coating - 2776**

**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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**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	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,513,869
City Park	255.15	3,071.25	2259.90	2,327,711	2,327,711
Elementary School	33,621.97	0.00	0.00	71,931,288	71,931,288
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	404,388,786
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,494,830
High School	21,100.93	7,153.69	2930.23	61,880,300	61,880,300
Junior High School	12,002.38	0.00	0.00	27,043,389	27,043,389
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,898,276
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	333,963,809
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	401,774,505
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,344,216,763</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy



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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Reclaimed Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,855.020 7	144.2894	3.4901	9,502.309 2
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4



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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 44.1642	78.2028	2.3850	0.0576	155.0056
City Park	0 / 154.416	54.1529	7.1100e-003	1.4700e-003	54.7690
Elementary School	63.1843 / 155.975	109.0020	2.0705	0.0510	175.9725
General Office Building	3106.61 / 1827.89	3,310.9380	101.5342	2.4534	6,580.4029
Government Office Building	17.3072 / 10.1834	18.4456	0.5657	0.0137	36.6601
High School	54.356 / 134.182	93.7719	1.7812	0.0439	151.3851
Junior High School	17.9609 / 44.3378	30.9851	0.5886	0.0145	50.0223
Place of Worship	6.85227 / 10.2889	9.4973	0.2242	5.4700e-003	16.7338
Regional Shopping Center	330.808 / 194.643	352.5660	10.8119	0.2613	700.7157
Single Family Housing	744.124 / 450.357	797.4592	24.3210	0.5878	1,580.6422
<b>Total</b>		<b>4,855.0207</b>	<b>144.2894</b>	<b>3.4901</b>	<b>9,502.3092</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</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**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**



Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.16	2.26	0.01	0.09	1.17
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.73		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

### Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
Yes	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

### Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	17,479.00	1000sqft	401.26	17,479,000.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	2,179.00	1000sqft	50.02	2,179,000.00	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	871.00	1000sqft	20.00	871,000.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments Low Rise	1,120.00	Dwelling Unit	43.91	1,120,000.00	3203
Single Family Housing	11,421.00	Dwelling Unit	2,942.02	20,557,800.00	32664
Regional Shopping Center	4,466.00	1000sqft	102.53	4,466,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	220.9	<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 - Intensity factors for CO2 adjusted based on PG&E RPS reductions.

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Off-road Equipment -

Trips and VMT - Construction not modeled

Architectural Coating - Construction not modeled

Energy Mitigation -

Water Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	13,469,060.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	40,407,180.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,632,515.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	43,897,545.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	0.00
tblLandUse	LotAcreage	70.00	43.91
tblLandUse	LotAcreage	3,708.12	2,942.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	220.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3,300.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,498.8303	4,899.2438	144.2952	3.4913	9,547.0354
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,429.5516</b>	<b>645,036.4874</b>	<b>673.1363</b>	<b>6.1250</b>	<b>663,690.1333</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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Energy	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	71,826.8722	71,826.8722	5.1594	1.6147	72,437.0355
Mobile	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Waste						0.0000	0.0000		0.0000	0.0000	8,252.1997	0.0000	8,252.1997	487.6910	0.0000	20,444.4756
Water						0.0000	0.0000		0.0000	0.0000	1,400.4136	3,388.2724	4,788.6860	144.2807	3.4883	9,435.2198
<b>Total</b>	<b>1,145.3497</b>	<b>1,003.5461</b>	<b>2,123.4163</b>	<b>7.8162</b>	<b>501.6392</b>	<b>142.6725</b>	<b>644.3118</b>	<b>134.6760</b>	<b>142.4587</b>	<b>277.1347</b>	<b>22,606.9359</b>	<b>622,318.9937</b>	<b>644,925.9295</b>	<b>673.1218</b>	<b>6.1220</b>	<b>663,578.3177</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	0.02	0.02	0.00	0.05	0.02

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/10/2776	1/9/2776	5	0	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Architectural Coating - 2776**

**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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**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	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493
Unmitigated	96.7504	953.0444	1,036.3473	5.8416	501.6392	3.3048	504.9440	134.6760	3.0909	137.7669	0.0000	541,518.4042	541,518.4042	23.8898	0.0000	542,115.6493

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,380.80	8,019.20	6798.40	27,513,869	27,513,869
City Park	255.15	3,071.25	2259.90	2,327,711	2,327,711
Elementary School	33,621.97	0.00	0.00	71,931,288	71,931,288
General Office Building	192,793.37	42,998.34	18352.95	404,388,786	404,388,786
Government Office Building	6,005.18	0.00	0.00	8,494,830	8,494,830
High School	21,100.93	7,153.69	2930.23	61,880,300	61,880,300
Junior High School	12,002.38	0.00	0.00	27,043,389	27,043,389
Place of Worship	1,995.09	2,271.03	8021.97	4,898,276	4,898,276
Regional Shopping Center	190,698.20	223,166.02	112721.84	333,963,809	333,963,809
Single Family Housing	108,727.92	113,182.11	98449.02	401,774,505	401,774,505
<b>Total</b>	<b>574,580.99</b>	<b>399,861.64</b>	<b>249,534.31</b>	<b>1,344,216,763</b>	<b>1,344,216,763</b>

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Elementary School	14.70	6.60	6.60	65.00	30.00	5.00	63	25	12
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
High School	14.70	6.60	6.60	77.80	17.20	5.00	75	19	6
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
City Park	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Elementary School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
General Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Government Office Building	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Junior High School	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Place of Worship	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Regional Shopping Center	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491
Single Family Housing	0.602362	0.026158	0.167472	0.085945	0.013058	0.003677	0.020614	0.073672	0.001131	0.000835	0.003667	0.000917	0.000491

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy



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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,739.9062	33,739.9062	4.4294	0.9164	34,123.7377
NaturalGas Mitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978
NaturalGas Unmitigated	3.8485	34.0616	22.6066	0.2099		2.6590	2.6590		2.6590	2.6590	0.0000	38,086.9660	38,086.9660	0.7300	0.6983	38,313.2978

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.58328e+007	0.0854	0.7296	0.3105	4.6600e-003		0.0590	0.0590		0.0590	0.0590	0.0000	844.9004	844.9004	0.0162	0.0155	849.9212
City Park	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
Elementary School	5.47147e+007	0.2950	2.6821	2.2530	0.0161		0.2038	0.2038		0.2038	0.2038	0.0000	2,919.7842	2,919.7842	0.0560	0.0535	2,937.1350
General Office Building	2.28101e+008	1.2300	11.1814	9.3924	0.0671		0.8498	0.8498		0.8498	0.8498	0.0000	12,172.3354	12,172.3354	0.2333	0.2232	12,244.6695
Government Office Building	1.13692e+006	6.1300e-003	0.0557	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6702	60.6702	1.1600e-003	1.1100e-003	61.0307
High School	4.11051e+007	0.2216	2.0150	1.6926	0.0121		0.1531	0.1531		0.1531	0.1531	0.0000	2,193.5231	2,193.5231	0.0420	0.0402	2,206.5581
Junior High School	2.18708e+007	0.1179	1.0721	0.9006	6.4300e-003		0.0815	0.0815		0.0815	0.0815	0.0000	1,167.1097	1,167.1097	0.0224	0.0214	1,174.0453
Place of Worship	4.57053e+006	0.0247	0.2241	0.1882	1.3400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	243.9009	243.9009	4.6700e-003	4.4700e-003	245.3503
Regional Shopping Center	4.77862e+007	0.2577	2.3425	1.9677	0.0141		0.1780	0.1780		0.1780	0.1780	0.0000	2,550.0536	2,550.0536	0.0489	0.0468	2,565.2073
Single Family Housing	2.98605e+008	1.6101	13.7592	5.8550	0.0878		1.1125	1.1125		1.1125	1.1125	0.0000	15,934.6885	15,934.6885	0.3054	0.2921	16,029.3804
<b>Total</b>		<b>3.8485</b>	<b>34.0616</b>	<b>22.6066</b>	<b>0.2099</b>		<b>2.6590</b>	<b>2.6590</b>		<b>2.6590</b>	<b>2.6590</b>	<b>0.0000</b>	<b>38,086.9659</b>	<b>38,086.9659</b>	<b>0.7300</b>	<b>0.6983</b>	<b>38,313.2978</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			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.23882e+006	524.9224	0.0689	0.0143	530.8941
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.52966e+007	1,532.6952	0.2012	0.0416	1,550.1314
General Office Building	1.59408e+008	15,972.4993	2.0969	0.4338	16,154.2054
Government Office Building	794534	79.6112	0.0105	2.1600e-003	80.5169
High School	1.14917e+007	1,151.4557	0.1512	0.0313	1,164.5549
Junior High School	6.11442e+006	612.6561	0.0804	0.0166	619.6257
Place of Worship	1.93158e+006	193.5415	0.0254	5.2600e-003	195.7433
Regional Shopping Center	3.63979e+007	3,647.0170	0.4788	0.0991	3,688.5061
Single Family Housing	1.00056e+008	10,025.5078	1.3162	0.2723	10,139.5599
<b>Total</b>		<b>33,739.9062</b>	<b>4.4294</b>	<b>0.9164</b>	<b>34,123.7377</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376
Unmitigated	1,044.7507	16.4401	1,064.4624	1.7647		136.7088	136.7088		136.7088	136.7088	12,954.3226	5,585.4449	18,539.7675	12.1009	1.0190	19,145.9376

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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</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	65.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	189.9248					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	786.9000	15.3673	971.3426	1.7598		136.1915	136.1915		136.1915	136.1915	12,954.3226	5,432.8539	18,387.1765	11.9547	1.0190	18,989.6924
Landscaping	2.8005	1.0729	93.1198	4.9400e-003		0.5173	0.5173		0.5173	0.5173	0.0000	152.5910	152.5910	0.1462	0.0000	156.2452
<b>Total</b>	<b>1,044.7507</b>	<b>16.4401</b>	<b>1,064.4624</b>	<b>1.7647</b>		<b>136.7088</b>	<b>136.7088</b>		<b>136.7088</b>	<b>136.7088</b>	<b>12,954.3226</b>	<b>5,585.4449</b>	<b>18,539.7675</b>	<b>12.1009</b>	<b>1.0190</b>	<b>19,145.9376</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Use Grey Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,788.686 0	144.2807	3.4883	9,435.219 8
Unmitigated	4,899.243 8	144.2952	3.4913	9,547.035 4



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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.9725 / 46.0044	78.8482	2.3851	0.0577	155.6583
City Park	0 / 160.85	56.4093	7.4100e-003	1.5300e-003	57.0510
Elementary School	63.1843 / 162.474	111.2811	2.0708	0.0511	178.2776
General Office Building	3106.61 / 1904.05	3,337.6476	101.5377	2.4541	6,607.4163
Government Office Building	17.3072 / 10.6077	18.5944	0.5657	0.0137	36.8106
High School	54.356 / 139.773	95.7326	1.7815	0.0440	153.3681
Junior High School	17.9609 / 46.1852	31.6330	0.5887	0.0145	50.6776
Place of Worship	6.85227 / 10.7177	9.6477	0.2243	5.4800e-003	16.8858
Regional Shopping Center	330.808 / 202.753	355.4102	10.8123	0.2613	703.5922
Single Family Housing	744.124 / 469.122	804.0399	24.3219	0.5880	1,587.2979
<b>Total</b>		<b>4,899.2438</b>	<b>144.2952</b>	<b>3.4913</b>	<b>9,547.0354</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			
Apartments Low Rise	72.9725 / 41.404	77.2348	2.3849	0.0576	154.0266
City Park	0 / 144.765	50.7684	6.6600e-003	1.3800e-003	51.3459
Elementary School	63.1843 / 146.226	105.5832	2.0701	0.0509	172.5149
General Office Building	3106.61 / 1713.65	3,270.8735	101.5289	2.4523	6,539.8826
Government Office Building	17.3072 / 9.54689	18.2224	0.5656	0.0137	36.4344
High School	54.356 / 125.795	90.8309	1.7809	0.0438	148.4106
Junior High School	17.9609 / 41.5666	30.0133	0.5885	0.0145	49.0394
Place of Worship	6.85227 / 9.64589	9.2718	0.2242	5.4600e-003	16.5057
Regional Shopping Center	330.808 / 182.478	348.2997	10.8113	0.2611	696.4009
Single Family Housing	744.124 / 422.21	787.5881	24.3197	0.5875	1,570.6588
<b>Total</b>		<b>4,788.6860</b>	<b>144.2807</b>	<b>3.4883</b>	<b>9,435.2198</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8,252.199 7	487.6910	0.0000	20,444.47 56
Unmitigated	8,252.199 7	487.6910	0.0000	20,444.47 56

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	515.2	104.5809	6.1806	0.0000	259.0949
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Elementary School	2832.7	575.0125	33.9823	0.0000	1,424.5691
General Office Building	16255.5	3,299.7135	195.0075	0.0000	8,174.9006
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
High School	2128.1	431.9851	25.5296	0.0000	1,070.2247
Junior High School	1132.3	229.8467	13.5836	0.0000	569.4354
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	4689.3	951.8855	56.2548	0.0000	2,358.2561
Single Family Housing	11759	2,386.9789	141.0664	0.0000	5,913.6391
<b>Total</b>		<b>8,252.1997</b>	<b>487.6910</b>	<b>0.0000</b>	<b>20,444.4756</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Wheatland CAP (2030) - WM-3b - Feather River AQMD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**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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**11.0 Vegetation**

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