

Appendix B: Corresponding Size for Proposed Criteria Pollutant Thresholds

District staff uses the CalEEMod to estimate the potential project size corresponding to the proposed CEQA thresholds and different types of land use development. Table B-1 summarizes the CalEEMod settings used to estimate the possible project size corresponding to 55 lbs/day of NOx emissions.

Table B-1

Variables used for project corresponding size	
Project location	Placer County APCD
Operational Year	2020
Urbanization setting	Urban
Wind speed (m/s)	2.2 (default)
Precipitation Freq (days)	74 (default)
Climate Zone	2
Utility company	Pacific Gas & Electric
Energy efficiency	CalEEMod default setting
Area source	No fireplace

Table B-2 presents the corresponding project size as it relates to 55 pounds per day of NOx emissions with the modeling setting in Table B-1. The information in the table is for reference only. Modeling results would likely vary depending on land use, energy usage, and proposed mitigation measures. All corresponding CalEEMod results are attached in the following pages.

Table B-2

Residential (# of units)			Commercial/Industrial (square foot)		
Single Family	Condo	Apartment	General Commercial	General Office Building	General Industrial
617	868	911	249,099	686,524	894,262

CalEEMod Results

617 unit residential project
Placer County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	617.00	Dwelling Unit	200.32	1,110,600.00	1765

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - no construction

Woodstoves - no fireplace

Area Coating - low VOC architectural coating

Area Mitigation - low VOC paint (100 g/l)

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	34.8416	0.5907	51.0725	2.6900e-003		0.2808	0.2808		0.2808	0.2808	0.0000	91.6568	91.6568	0.0894	0.0000	93.5337
Energy	0.5861	5.0087	2.1314	0.0320		0.4050	0.4050		0.4050	0.4050		6,394.0829	6,394.0829	0.1226	0.1172	6,432.9962
Mobile	21.1891	49.3954	206.1580	0.5919	37.8153	0.7854	38.6007	10.1032	0.7238	10.8270		46,007.2727	46,007.2727	1.3658		46,035.9541
Total	56.6169	54.9948	259.3618	0.6265	37.8153	1.4712	39.2865	10.1032	1.4096	11.5128	0.0000	52,493.0123	52,493.0123	1.5777	0.1172	52,562.4839

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.1299	0.5907	51.0725	2.6900e-003		0.2808	0.2808		0.2808	0.2808	0.0000	91.6568	91.6568	0.0894	0.0000	93.5337
Energy	0.5861	5.0087	2.1314	0.0320		0.4050	0.4050		0.4050	0.4050		6,394.0829	6,394.0829	0.1226	0.1172	6,432.9962
Mobile	21.1891	49.3954	206.1580	0.5919	37.8153	0.7854	38.6007	10.1032	0.7238	10.8270		46,007.2727	46,007.2727	1.3658		46,035.9541
Total	50.9051	54.9948	259.3618	0.6265	37.8153	1.4712	39.2865	10.1032	1.4096	11.5128	0.0000	52,493.0123	52,493.0123	1.5777	0.1172	52,562.4839

	ROG	NOx	CO	SO2	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	10.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	2/23/2016	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	21.1891	49.3954	206.1580	0.5919	37.8153	0.7854	38.6007	10.1032	0.7238	10.8270		46,007.27 27	46,007.27 27	1.3658		46,035.95 41
Mitigated	21.1891	49.3954	206.1580	0.5919	37.8153	0.7854	38.6007	10.1032	0.7238	10.8270		46,007.27 27	46,007.27 27	1.3658		46,035.95 41

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	5,904.69	6,219.36	5411.09	16,841,014	16,841,014
Total	5,904.69	6,219.36	5,411.09	16,841,014	16,841,014

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
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures 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
	lb/day										lb/day					
NaturalGas Mitigated	0.5861	5.0087	2.1314	0.0320		0.4050	0.4050		0.4050	0.4050		6,394.0829	6,394.0829	0.1226	0.1172	6,432.9962
NaturalGas Unmitigated	0.5861	5.0087	2.1314	0.0320		0.4050	0.4050		0.4050	0.4050		6,394.0829	6,394.0829	0.1226	0.1172	6,432.9962

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	54349.7	0.5861	5.0087	2.1314	0.0320		0.4050	0.4050		0.4050	0.4050		6,394.0829	6,394.0829	0.1226	0.1172	6,432.9962
Total		0.5861	5.0087	2.1314	0.0320		0.4050	0.4050		0.4050	0.4050		6,394.0829	6,394.0829	0.1226	0.1172	6,432.9962

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	54.3497	0.5861	5.0087	2.1314	0.0320		0.4050	0.4050		0.4050	0.4050		6,394.0829	6,394.0829	0.1226	0.1172	6,432.9962
Total		0.5861	5.0087	2.1314	0.0320		0.4050	0.4050		0.4050	0.4050		6,394.0829	6,394.0829	0.1226	0.1172	6,432.9962

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior
 Use Low VOC Paint - Residential Exterior
 Use Low VOC Paint - Non-Residential Interior
 Use Low VOC Paint - Non-Residential Exterior
 No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	34.8416	0.5907	51.0725	2.6900e-003		0.2808	0.2808		0.2808	0.2808	0.0000	91.6568	91.6568	0.0894	0.0000	93.5337
Mitigated	29.1299	0.5907	51.0725	2.6900e-003		0.2808	0.2808		0.2808	0.2808	0.0000	91.6568	91.6568	0.0894	0.0000	93.5337

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.5196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.7668					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5552	0.5907	51.0725	2.6900e-003		0.2808	0.2808		0.2808	0.2808		91.6568	91.6568	0.0894		93.5337
Total	34.8416	0.5907	51.0725	2.6900e-003		0.2808	0.2808		0.2808	0.2808	0.0000	91.6568	91.6568	0.0894	0.0000	93.5337

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.8078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.7668					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5552	0.5907	51.0725	2.6900e-003		0.2808	0.2808		0.2808	0.2808		91.6568	91.6568	0.0894		93.5337
Total	29.1299	0.5907	51.0725	2.6900e-003		0.2808	0.2808		0.2808	0.2808	0.0000	91.6568	91.6568	0.0894	0.0000	93.5337

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

868 Condo unit residential project
Placer County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	868.00	Dwelling Unit	54.25	868,000.00	2482

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - no construction

Woodstoves - no fireplace

Area Coating - low VOC architectural coating

Area Mitigation - low VOC paint (100 g/l)

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.2032	0.8310	71.8492	3.7800e-003		0.3951	0.3951		0.3951	0.3951	0.0000	128.9434	128.9434	0.1257	0.0000	131.5838
Energy	0.5620	4.8021	2.0435	0.0307		0.3883	0.3883		0.3883	0.3883		6,130.3602	6,130.3602	0.1175	0.1124	6,167.6685
Mobile	21.1739	49.3599	206.0095	0.5915	37.7881	0.7848	38.5729	10.0960	0.7233	10.8192		45,974.1322	45,974.1322	1.3648		46,002.7929
Total	49.9390	54.9930	279.9021	0.6259	37.7881	1.5682	39.3562	10.0960	1.5066	11.6026	0.0000	52,233.4358	52,233.4358	1.6080	0.1124	52,302.0452

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	23.7391	0.8310	71.8492	3.7800e-003		0.3951	0.3951		0.3951	0.3951	0.0000	128.9434	128.9434	0.1257	0.0000	131.5838
Energy	0.5620	4.8021	2.0435	0.0307		0.3883	0.3883		0.3883	0.3883		6,130.3602	6,130.3602	0.1175	0.1124	6,167.6685
Mobile	21.1739	49.3599	206.0095	0.5915	37.7881	0.7848	38.5729	10.0960	0.7233	10.8192		45,974.1322	45,974.1322	1.3648		46,002.7929
Total	45.4749	54.9930	279.9021	0.6259	37.7881	1.5682	39.3562	10.0960	1.5066	11.6026	0.0000	52,233.4358	52,233.4358	1.6080	0.1124	52,302.0452

	ROG	NOx	CO	SO2	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	8.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	4/7/2016	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	21.1739	49.3599	206.0095	0.5915	37.7881	0.7848	38.5729	10.0960	0.7233	10.8192		45,974.13 22	45,974.13 22	1.3648		46,002.79 29
Mitigated	21.1739	49.3599	206.0095	0.5915	37.7881	0.7848	38.5729	10.0960	0.7233	10.8192		45,974.13 22	45,974.13 22	1.3648		46,002.79 29

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	5,720.12	6,214.88	5268.76	16,403,288	16,403,288
Total	5,720.12	6,214.88	5,268.76	16,403,288	16,403,288

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
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures 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
	lb/day										lb/day					
NaturalGas Mitigated	0.5620	4.8021	2.0435	0.0307		0.3883	0.3883		0.3883	0.3883		6,130.3602	6,130.3602	0.1175	0.1124	6,167.6685
NaturalGas Unmitigated	0.5620	4.8021	2.0435	0.0307		0.3883	0.3883		0.3883	0.3883		6,130.3602	6,130.3602	0.1175	0.1124	6,167.6685

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	52108.1	0.5620	4.8021	2.0435	0.0307		0.3883	0.3883		0.3883	0.3883		6,130.3602	6,130.3602	0.1175	0.1124	6,167.6685
Total		0.5620	4.8021	2.0435	0.0307		0.3883	0.3883		0.3883	0.3883		6,130.3602	6,130.3602	0.1175	0.1124	6,167.6685

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	52.1081	0.5620	4.8021	2.0435	0.0307		0.3883	0.3883		0.3883	0.3883		6,130.3602	6,130.3602	0.1175	0.1124	6,167.6685
Total		0.5620	4.8021	2.0435	0.0307		0.3883	0.3883		0.3883	0.3883		6,130.3602	6,130.3602	0.1175	0.1124	6,167.6685

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	28.2032	0.8310	71.8492	3.7800e-003		0.3951	0.3951		0.3951	0.3951	0.0000	128.9434	128.9434	0.1257	0.0000	131.5838
Mitigated	23.7391	0.8310	71.8492	3.7800e-003		0.3951	0.3951		0.3951	0.3951	0.0000	128.9434	128.9434	0.1257	0.0000	131.5838

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.4401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	18.5752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1879	0.8310	71.8492	3.7800e-003		0.3951	0.3951		0.3951	0.3951		128.9434	128.9434	0.1257		131.5838
Total	28.2032	0.8310	71.8492	3.7800e-003		0.3951	0.3951		0.3951	0.3951	0.0000	128.9434	128.9434	0.1257	0.0000	131.5838

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.9761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	18.5752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1879	0.8310	71.8492	3.7800e-003		0.3951	0.3951		0.3951	0.3951		128.9434	128.9434	0.1257		131.5838
Total	23.7391	0.8310	71.8492	3.7800e-003		0.3951	0.3951		0.3951	0.3951	0.0000	128.9434	128.9434	0.1257	0.0000	131.5838

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

911 apartment unit project
Placer County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	911.00	Dwelling Unit	14.69	911,000.00	2605

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - no construction

Woodstoves - no fireplace

Area Coating - low VOC architectural coating

Area Mitigation - low VOC paint (100 g/l)

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.6004	0.8722	75.4085	3.9700e-003		0.4147	0.4147		0.4147	0.4147	0.0000	135.3312	135.3312	0.1320	0.0000	138.1024
Energy	0.2686	2.2950	0.9766	0.0147		0.1856	0.1856		0.1856	0.1856		2,929.7261	2,929.7261	0.0562	0.0537	2,947.5559
Mobile	22.2228	51.8051	216.2150	0.6208	39.6601	0.8237	40.4838	10.5961	0.7591	11.3552		48,251.6526	48,251.6526	1.4324		48,281.7331
Total	52.0917	54.9722	292.6001	0.6394	39.6601	1.4239	41.0840	10.5961	1.3593	11.9554	0.0000	51,316.7098	51,316.7098	1.6205	0.0537	51,367.3914

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.9151	0.8722	75.4085	3.9700e-003		0.4147	0.4147		0.4147	0.4147	0.0000	135.3312	135.3312	0.1320	0.0000	138.1024
Energy	0.2686	2.2950	0.9766	0.0147		0.1856	0.1856		0.1856	0.1856		2,929.7261	2,929.7261	0.0562	0.0537	2,947.5559
Mobile	22.2228	51.8051	216.2150	0.6208	39.6601	0.8237	40.4838	10.5961	0.7591	11.3552		48,251.6526	48,251.6526	1.4324		48,281.7331
Total	47.4065	54.9722	292.6001	0.6394	39.6601	1.4239	41.0840	10.5961	1.3593	11.9554	0.0000	51,316.7098	51,316.7098	1.6205	0.0537	51,367.3914

	ROG	NOx	CO	SO2	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	8.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	22.2228	51.8051	216.2150	0.6208	39.6601	0.8237	40.4838	10.5961	0.7591	11.3552		48,251.65 26	48,251.65 26	1.4324		48,281.73 31
Mitigated	22.2228	51.8051	216.2150	0.6208	39.6601	0.8237	40.4838	10.5961	0.7591	11.3552		48,251.65 26	48,251.65 26	1.4324		48,281.73 31

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	6,003.49	6,522.76	5529.77	17,215,893	17,215,893
Total	6,003.49	6,522.76	5,529.77	17,215,893	17,215,893

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2686	2.2950	0.9766	0.0147		0.1856	0.1856		0.1856	0.1856		2,929.7261	2,929.7261	0.0562	0.0537	2,947.5559
NaturalGas Unmitigated	0.2686	2.2950	0.9766	0.0147		0.1856	0.1856		0.1856	0.1856		2,929.7261	2,929.7261	0.0562	0.0537	2,947.5559

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	24902.7	0.2686	2.2950	0.9766	0.0147		0.1856	0.1856		0.1856	0.1856		2,929.7261	2,929.7261	0.0562	0.0537	2,947.5559
Total		0.2686	2.2950	0.9766	0.0147		0.1856	0.1856		0.1856	0.1856		2,929.7261	2,929.7261	0.0562	0.0537	2,947.5559

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	24.9027	0.2686	2.2950	0.9766	0.0147		0.1856	0.1856		0.1856	0.1856		2,929.7261	2,929.7261	0.0562	0.0537	2,947.5559
Total		0.2686	2.2950	0.9766	0.0147		0.1856	0.1856		0.1856	0.1856		2,929.7261	2,929.7261	0.0562	0.0537	2,947.5559

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior
 Use Low VOC Paint - Residential Exterior
 Use Low VOC Paint - Non-Residential Interior
 Use Low VOC Paint - Non-Residential Exterior
 No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	29.6004	0.8722	75.4085	3.9700e-003		0.4147	0.4147		0.4147	0.4147	0.0000	135.3312	135.3312	0.1320	0.0000	138.1024
Mitigated	24.9151	0.8722	75.4085	3.9700e-003		0.4147	0.4147		0.4147	0.4147	0.0000	135.3312	135.3312	0.1320	0.0000	138.1024

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.8087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.4954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2963	0.8722	75.4085	3.9700e-003		0.4147	0.4147		0.4147	0.4147		135.3312	135.3312	0.1320		138.1024
Total	29.6004	0.8722	75.4085	3.9700e-003		0.4147	0.4147		0.4147	0.4147	0.0000	135.3312	135.3312	0.1320	0.0000	138.1024

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.1235					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.4954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2963	0.8722	75.4085	3.9700e-003		0.4147	0.4147		0.4147	0.4147		135.3312	135.3312	0.1320		138.1024
Total	24.9151	0.8722	75.4085	3.9700e-003		0.4147	0.4147		0.4147	0.4147	0.0000	135.3312	135.3312	0.1320	0.0000	138.1024

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

249,099 sqft general commercial project
Placer County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	249.10	1000sqft	5.72	249,099.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use -
 Construction Phase - no construction
 Area Coating - low VOC paint
 Area Mitigation - low VOC paint

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	6.6775	2.4000e-004	0.0256	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005							0.0576
Energy	0.0905	0.8223	0.6907	4.9300e-003		0.0625	0.0625		0.0625	0.0625							992.7665
Mobile	32.0942	54.1773	239.9549	0.5789		0.7920	36.8804		0.7299	10.3718							45,013.9262
Total	38.8622	54.9998	240.6712	0.5838		0.8545	36.9430		0.7925	10.4344							46,006.7502

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	5.9658	2.4000e-004	0.0256	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005							0.0576
Energy	0.0905	0.8223	0.6907	4.9300e-003		0.0625	0.0625		0.0625	0.0625							992.7665
Mobile	32.0942	54.1773	239.9549	0.5789		0.7920	36.8804		0.7299	10.3718							45,013.9262
Total	38.1504	54.9998	240.6712	0.5838		0.8545	36.9430		0.7925	10.4344							46,006.7502

	ROG	NOx	CO	SO2	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	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	32.0942	54.1773	239.9549	0.5789		0.7920	36.8804		0.7299	10.3718						45,013.9262
Mitigated	32.0942	54.1773	239.9549	0.5789		0.7920	36.8804		0.7299	10.3718						45,013.9262

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	11,040.07	10,472.12	5089.09	15,567,876	15,567,876
Total	11,040.07	10,472.12	5,089.09	15,567,876	15,567,876

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
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0905	0.8223	0.6907	4.9300e-003		0.0625	0.0625		0.0625	0.0625						992.7665
NaturalGas Unmitigated	0.0905	0.8223	0.6907	4.9300e-003		0.0625	0.0625		0.0625	0.0625						992.7665

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Strip Mall	8387.47	0.0905	0.8223	0.6907	4.9300e-003		0.0625	0.0625		0.0625	0.0625							992.7665
Total		0.0905	0.8223	0.6907	4.9300e-003		0.0625	0.0625		0.0625	0.0625							992.7665

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Strip Mall	8.38747	0.0905	0.8223	0.6907	4.9300e-003		0.0625	0.0625		0.0625	0.0625							992.7665
Total		0.0905	0.8223	0.6907	4.9300e-003		0.0625	0.0625		0.0625	0.0625							992.7665

6.0 Area Detail

6.1 Mitigation Measures Area

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3444					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	5.3307					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	2.4100e-003	2.4000e-004	0.0256	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005						0.0576
Total	6.6775	2.4000e-004	0.0256	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005						0.0576

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6326					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	5.3307					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	2.4100e-003	2.4000e-004	0.0256	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005						0.0576
Total	5.9658	2.4000e-004	0.0256	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005						0.0576

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

686,524 sqft general office building project
Placer County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	686.52	1000sqft	15.76	686,524.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use -
 Construction Phase - no construction
 Area Coating - low VOC paint
 Area Mitigation - low VOC paint

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	18.4034	6.5000e-004	0.0705	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004							0.1587
Energy	0.3509	3.1901	2.6797	0.0191		0.2425	0.2425		0.2425	0.2425							3,851.4572
Mobile	24.3975	51.8092	219.6286	0.6036		0.8067	39.1476		0.7435	10.9871							46,940.9553
Total	43.1518	55.0000	222.3788	0.6227		1.0494	39.3903		0.9862	11.2298							50,792.5711

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	16.4418	6.5000e-004	0.0705	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004							0.1587
Energy	0.3509	3.1901	2.6797	0.0191		0.2425	0.2425		0.2425	0.2425							3,851.4572
Mobile	24.3975	51.8092	219.6286	0.6036		0.8067	39.1476		0.7435	10.9871							46,940.9553
Total	41.1902	55.0000	222.3788	0.6227		1.0494	39.3903		0.9862	11.2298							50,792.5711

	ROG	NOx	CO	SO2	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	4.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	24.3975	51.8092	219.6286	0.6036		0.8067	39.1476		0.7435	10.9871						46,940.9553
Mitigated	24.3975	51.8092	219.6286	0.6036		0.8067	39.1476		0.7435	10.9871						46,940.9553

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	7,558.63	1,627.06	672.79	13,687,481	13,687,481
Total	7,558.63	1,627.06	672.79	13,687,481	13,687,481

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	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3509	3.1901	2.6797	0.0191		0.2425	0.2425		0.2425	0.2425						3,851.4572
NaturalGas Unmitigated	0.3509	3.1901	2.6797	0.0191		0.2425	0.2425		0.2425	0.2425						3,851.4572

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
General Office Building	32539.4	0.3509	3.1901	2.6797	0.0191		0.2425	0.2425		0.2425	0.2425							3,851.4572
Total		0.3509	3.1901	2.6797	0.0191		0.2425	0.2425		0.2425	0.2425							3,851.4572

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
General Office Building	32.5394	0.3509	3.1901	2.6797	0.0191		0.2425	0.2425		0.2425	0.2425							3,851.4572
Total		0.3509	3.1901	2.6797	0.0191		0.2425	0.2425		0.2425	0.2425							3,851.4572

6.0 Area Detail

6.1 Mitigation Measures Area

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	3.7051					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	14.6916					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	6.6400e-003	6.5000e-004	0.0705	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004							0.1587
Total	18.4034	6.5000e-004	0.0705	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004							0.1587

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	1.7436					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	14.6916					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	6.6400e-003	6.5000e-004	0.0705	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004							0.1587
Total	16.4418	6.5000e-004	0.0705	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004							0.1587

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

894,262 sqft general commercial project
Placer County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	894.26	1000sqft	20.53	894,262.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - no construction

Area Coating - low VOC paint

Area Mitigation - low VOC paint

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	23.9721	8.5000e-004	0.0919	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004							0.2067
Energy	0.5181	4.7103	3.9567	0.0283		0.3580	0.3580		0.3580	0.3580							5,686.7694
Mobile	21.3649	50.2889	209.5625	0.6042		0.8012	39.4267		0.7384	11.0581							46,996.9890
Total	45.8552	55.0000	213.6111	0.6325		1.1595	39.7851		1.0967	11.4164							52,683.9651

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	21.4170	8.5000e-004	0.0919	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004							0.2067
Energy	0.5181	4.7103	3.9567	0.0283		0.3580	0.3580		0.3580	0.3580							5,686.7694
Mobile	21.3649	50.2889	209.5625	0.6042		0.8012	39.4267		0.7384	11.0581							46,996.9890
Total	43.3001	55.0000	213.6111	0.6325		1.1595	39.7851		1.0967	11.4164							52,683.9651

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	5.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	21.3649	50.2889	209.5625	0.6042		0.8012	39.4267		0.7384	11.0581						46,996.9890
Mitigated	21.3649	50.2889	209.5625	0.6042		0.8012	39.4267		0.7384	11.0581						46,996.9890

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	6,233.01	1,180.43	608.10	13,744,039	13,744,039
Total	6,233.01	1,180.43	608.10	13,744,039	13,744,039

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 Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5181	4.7103	3.9567	0.0283		0.3580	0.3580		0.3580	0.3580						5,686.7694
NaturalGas Unmitigated	0.5181	4.7103	3.9567	0.0283		0.3580	0.3580		0.3580	0.3580						5,686.7694

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
General Light Industry	48045.1	0.5181	4.7103	3.9567	0.0283		0.3580	0.3580		0.3580	0.3580							5,686.7694
Total		0.5181	4.7103	3.9567	0.0283		0.3580	0.3580		0.3580	0.3580							5,686.7694

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
General Light Industry	48.0451	0.5181	4.7103	3.9567	0.0283		0.3580	0.3580		0.3580	0.3580							5,686.7694
Total		0.5181	4.7103	3.9567	0.0283		0.3580	0.3580		0.3580	0.3580							5,686.7694

6.0 Area Detail

6.1 Mitigation Measures Area

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.8263					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	19.1372					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	8.6400e-003	8.5000e-004	0.0919	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004						0.2067
Total	23.9721	8.5000e-004	0.0919	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004						0.2067

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2712					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	19.1372					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	8.6400e-003	8.5000e-004	0.0919	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004						0.2067
Total	21.4170	8.5000e-004	0.0919	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004						0.2067

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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