

Wheatland CAP (2050) - Citywide Buildout - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - Citywide Buildout
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	20,846.94	1000sqft	478.58	20,846,944.80	0
Government (Civic Center)	1,045.44	1000sqft	24.00	1,045,440.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	3,922.14	1000sqft	90.04	3,922,142.40	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	2,478.56	1000sqft	56.90	2,478,564.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	318.41	Acre	318.41	13,869,939.60	0
Apartments Low Rise	1,601.00	Dwelling Unit	66.81	1,601,000.00	4579
Single Family Housing	19,672.00	Dwelling Unit	4,534.12	35,409,600.00	56262
Regional Shopping Center	8,626.62	1000sqft	198.04	8,626,622.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	67
Climate Zone	3			Operational Year	2050
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

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Project Characteristics -

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	0.00
tblConstructionPhase	PhaseEndDate	12/27/2041	12/30/2018
tblLandUse	LandUseSquareFeet	20,846,900.00	20,846,944.80
tblLandUse	LandUseSquareFeet	3,922,140.00	3,922,142.40
tblLandUse	LandUseSquareFeet	2,478,560.00	2,478,564.00
tblLandUse	LandUseSquareFeet	8,626,620.00	8,626,622.40
tblLandUse	LotAcreage	100.06	66.81
tblLandUse	LotAcreage	6,387.01	4,534.12
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	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	1,738.9185	27.8855	1,805.2836	2.9935		231.8956	231.8956		231.8956	231.8956	21,974.1092	9,474.3369	31,448.4461	20.5259	1.7284	32,476.6643
Energy	6.0527	53.4450	34.6389	0.3302		4.1819	4.1819		4.1819	4.1819	0.0000	207,959.0019	207,959.0019	7.8429	2.4833	208,895.0982
Mobile	84.2473	1,187.2684	950.1568	7.2730	689.6309	2.2936	691.9245	184.8415	2.1458	186.9873	0.0000	675,249.2682	675,249.2682	27.4603	0.0000	675,935.7766
Waste						0.0000	0.0000		0.0000	0.0000	13,641.2099	0.0000	13,641.2099	806.1724	0.0000	33,795.5202
Water						0.0000	0.0000		0.0000	0.0000	1,961.0278	14,442.2479	16,403.2757	202.0694	4.8910	22,912.5250
Total	1,829.2185	1,268.5989	2,790.0794	10.5966	689.6309	238.3711	928.0019	184.8415	238.2233	423.0648	37,576.3469	907,124.8548	944,701.2018	1,064.0709	9.1027	974,015.5842

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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	1,738.9185	27.8855	1,805.2836	2.9935		231.8956	231.8956		231.8956	231.8956	21,974.1092	9,474.3369	31,448.4461	20.5259	1.7284	32,476.6643
Energy	6.0527	53.4450	34.6389	0.3302		4.1819	4.1819		4.1819	4.1819	0.0000	207,959.0019	207,959.0019	7.8429	2.4833	208,895.0982
Mobile	84.2473	1,187.2684	950.1568	7.2730	689.6309	2.2936	691.9245	184.8415	2.1458	186.9873	0.0000	675,249.2682	675,249.2682	27.4603	0.0000	675,935.7766
Waste						0.0000	0.0000		0.0000	0.0000	13,641.2099	0.0000	13,641.2099	806.1724	0.0000	33,795.5202
Water						0.0000	0.0000		0.0000	0.0000	1,961.0278	14,442.2479	16,403.2757	202.0694	4.8910	22,912.5250
Total	1,829.2185	1,268.5989	2,790.0794	10.5966	689.6309	238.3711	928.0019	184.8415	238.2233	423.0648	37,576.3469	907,124.8548	944,701.2018	1,064.0709	9.1027	974,015.5842

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	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
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	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	10.80	7.30	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	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	84.2473	1,187.2684	950.1568	7.2730	689.6309	2.2936	691.9245	184.8415	2.1458	186.9873	0.0000	675,249.2682	675,249.2682	27.4603	0.0000	675,935.7766
Unmitigated	84.2473	1,187.2684	950.1568	7.2730	689.6309	2.2936	691.9245	184.8415	2.1458	186.9873	0.0000	675,249.2682	675,249.2682	27.4603	0.0000	675,935.7766

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	10,550.59	11,463.16	9718.07	30,255,372	30,255,372
City Park	601.79	7,243.83	5330.18	4,752,483	4,752,483
Elementary School	60,518.62	0.00	0.00	95,314,194	95,314,194
General Office Building	229,941.75	51,283.47	21889.29	417,483,502	417,483,502
Government (Civic Center)	29,188.68	0.00	0.00	39,855,836	39,855,836
Government Office Building	6,005.18	0.00	0.00	7,355,835	7,355,835
High School	21,100.93	7,153.69	2930.23	43,232,790	43,232,790
Junior High School	34,154.56	0.00	0.00	54,847,200	54,847,200
Place of Worship	1,995.09	2,271.03	8021.97	5,416,561	5,416,561
Regional Shopping Center	368,356.67	431,072.20	217735.89	623,823,718	623,823,718
Single Family Housing	187,277.44	194,949.52	169572.64	532,358,610	532,358,610
Total	949,691.31	705,436.90	435,198.27	1,854,696,100	1,854,696,100

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	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government (Civic Center)	9.50	7.30	7.30	75.00	20.00	5.00	50	34	16
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00	63	25	12
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00	64	25	11
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	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	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
City Park	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Elementary School	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
General Office Building	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Government (Civic Center)	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Government Office Building	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
High School	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Junior High School	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Place of Worship	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Regional Shopping Center	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Single Family Housing	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392

5.0 Energy Detail

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Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	148,058.3209	148,058.3209	6.6948	1.3851	148,638.4575
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	148,058.3209	148,058.3209	6.6948	1.3851	148,638.4575
NaturalGas Mitigated	6.0527	53.4450	34.6389	0.3302		4.1819	4.1819		4.1819	4.1819	0.0000	59,900.6810	59,900.6810	1.1481	1.0982	60,256.6408
NaturalGas Unmitigated	6.0527	53.4450	34.6389	0.3302		4.1819	4.1819		4.1819	4.1819	0.0000	59,900.6810	59,900.6810	1.1481	1.0982	60,256.6408

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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	2.26325e+007	0.1220	1.0429	0.4438	6.6600e-003		0.0843	0.0843		0.0843	0.0843	0.0000	1,207.7549	1,207.7549	0.0232	0.0221	1,214.9320
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	9.8485e+007	0.5311	4.8277	4.0553	0.0290		0.3669	0.3669		0.3669	0.3669	0.0000	5,255.5344	5,255.5344	0.1007	0.0964	5,286.7654
General Office Building	2.72053e+008	1.4670	13.3359	11.2022	0.0800		1.0135	1.0135		1.0135	1.0135	0.0000	14,517.7644	14,517.7644	0.2783	0.2662	14,604.0362
Government (Civic Center)	1.3643e+007	0.0736	0.6688	0.5618	4.0100e-003		0.0508	0.0508		0.0508	0.0508	0.0000	728.0420	728.0420	0.0140	0.0134	732.3684
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	6.22367e+007	0.3356	3.0508	2.5627	0.0183		0.2319	0.2319		0.2319	0.2319	0.0000	3,321.1896	3,321.1896	0.0637	0.0609	3,340.9257
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	9.23049e+007	0.4977	4.5248	3.8008	0.0272		0.3439	0.3439		0.3439	0.3439	0.0000	4,925.7388	4,925.7388	0.0944	0.0903	4,955.0100
Single Family Housing	5.14329e+008	2.7733	23.6995	10.0849	0.1513		1.9161	1.9161		1.9161	1.9161	0.0000	27,446.5627	27,446.5627	0.5261	0.5032	27,609.6639
Total		6.0527	53.4450	34.6389	0.3301		4.1819	4.1819		4.1819	4.1819	0.0000	59,900.6810	59,900.6810	1.1481	1.0982	60,256.6408

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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	2.26325e+007	0.1220	1.0429	0.4438	6.6600e-003		0.0843	0.0843		0.0843	0.0843	0.0000	1,207.7549	1,207.7549	0.0232	0.0221	1,214.9320
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	9.8485e+007	0.5311	4.8277	4.0553	0.0290		0.3669	0.3669		0.3669	0.3669	0.0000	5,255.5344	5,255.5344	0.1007	0.0964	5,286.7654
General Office Building	2.72053e+008	1.4670	13.3359	11.2022	0.0800		1.0135	1.0135		1.0135	1.0135	0.0000	14,517.7644	14,517.7644	0.2783	0.2662	14,604.0362
Government (Civic Center)	1.3643e+007	0.0736	0.6688	0.5618	4.0100e-003		0.0508	0.0508		0.0508	0.0508	0.0000	728.0420	728.0420	0.0140	0.0134	732.3684
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	6.22367e+007	0.3356	3.0508	2.5627	0.0183		0.2319	0.2319		0.2319	0.2319	0.0000	3,321.1896	3,321.1896	0.0637	0.0609	3,340.9257
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	9.23049e+007	0.4977	4.5248	3.8008	0.0272		0.3439	0.3439		0.3439	0.3439	0.0000	4,925.7388	4,925.7388	0.0944	0.0903	4,955.0100
Single Family Housing	5.14329e+008	2.7733	23.6995	10.0849	0.1513		1.9161	1.9161		1.9161	1.9161	0.0000	27,446.5627	27,446.5627	0.5261	0.5032	27,609.6639
Total		6.0527	53.4450	34.6389	0.3301		4.1819	4.1819		4.1819	4.1819	0.0000	59,900.6810	59,900.6810	1.1481	1.0982	60,256.6408

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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	7.48871e+006	2,178.5515	0.0985	0.0204	2,187.0877
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	8,009.7933	0.3622	0.0749	8,041.1781
General Office Building	1.90124e+008	55,309.2914	2.5009	0.5174	55,526.0096
Government (Civic Center)	9.53441e+006	2,773.6700	0.1254	0.0260	2,784.5381
Government Office Building	794534	231.1392	0.0105	2.1600e-003	232.0448
High School	1.14917e+007	3,343.0789	0.1512	0.0313	3,356.1781
Junior High School	1.73995e+007	5,061.7197	0.2289	0.0474	5,081.5530
Place of Worship	1.93158e+006	561.9188	0.0254	5.2600e-003	564.1205
Regional Shopping Center	7.0307e+007	20,453.1045	0.9248	0.1913	20,533.2458
Single Family Housing	1.72341e+008	50,136.0537	2.2670	0.4690	50,332.5017
Total		148,058.3209	6.6948	1.3851	148,638.4575

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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	7.48871e+006	2,178.5515	0.0985	0.0204	2,187.0877
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	8,009.7933	0.3622	0.0749	8,041.1781
General Office Building	1.90124e+008	55,309.2914	2.5009	0.5174	55,526.0096
Government (Civic Center)	9.53441e+006	2,773.6700	0.1254	0.0260	2,784.5381
Government Office Building	794534	231.1392	0.0105	2.1600e-003	232.0448
High School	1.14917e+007	3,343.0789	0.1512	0.0313	3,356.1781
Junior High School	1.73995e+007	5,061.7197	0.2289	0.0474	5,081.5530
Place of Worship	1.93158e+006	561.9188	0.0254	5.2600e-003	564.1205
Regional Shopping Center	7.0307e+007	20,453.1045	0.9248	0.1913	20,533.2458
Single Family Housing	1.72341e+008	50,136.0537	2.2670	0.4690	50,332.5017
Total		148,058.3209	6.6948	1.3851	148,638.4575

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	1,738.9185	27.8855	1,805.2836	2.9935		231.8956	231.8956		231.8956	231.8956	21,974.1092	9,474.3369	31,448.4461	20.5259	1.7284	32,476.6643
Unmitigated	1,738.9185	27.8855	1,805.2836	2.9935		231.8956	231.8956		231.8956	231.8956	21,974.1092	9,474.3369	31,448.4461	20.5259	1.7284	32,476.6643

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	102.9284					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	296.4541					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1,334.7998	26.0671	1,647.6653	2.9851		231.0184	231.0184		231.0184	231.0184	21,974.1092	9,215.6209	31,189.7301	20.2785	1.7284	32,211.7636
Landscaping	4.7363	1.8184	157.6183	8.3700e-003		0.8772	0.8772		0.8772	0.8772	0.0000	258.7160	258.7160	0.2474	0.0000	264.9008
Total	1,738.9185	27.8855	1,805.2836	2.9935		231.8956	231.8956		231.8956	231.8956	21,974.1092	9,474.3369	31,448.4461	20.5259	1.7284	32,476.6643

Wheatland CAP (2050) - Citywide Buildout - 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	102.9284					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	296.4541					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1,334.7998	26.0671	1,647.6653	2.9851		231.0184	231.0184		231.0184	231.0184	21,974.1092	9,215.6209	31,189.7301	20.2785	1.7284	32,211.7636
Landscaping	4.7363	1.8184	157.6183	8.3700e-003		0.8772	0.8772		0.8772	0.8772	0.0000	258.7160	258.7160	0.2474	0.0000	264.9008
Total	1,738.9185	27.8855	1,805.2836	2.9935		231.8956	231.8956		231.8956	231.8956	21,974.1092	9,474.3369	31,448.4461	20.5259	1.7284	32,476.6643

7.0 Water Detail

7.1 Mitigation Measures Water

Wheatland CAP (2050) - Citywide Buildout - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16,403.27 57	202.0694	4.8910	22,912.52 50
Unmitigated	16,403.27 57	202.0694	4.8910	22,912.52 50

Wheatland CAP (2050) - Citywide Buildout - 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	104.312 / 65.7617	264.2503	3.4095	0.0824	374.0477
City Park	0 / 379.38	386.2805	0.0175	3.6100e-003	387.7941
Elementary School	113.73 / 292.448	512.8743	3.7275	0.0920	633.4661
General Office Building	3705.2 / 2270.93	9,320.1573	121.1022	2.9270	13,219.9538
Government (Civic Center)	207.687 / 127.292	522.4211	6.7881	0.1641	741.0157
Government Office Building	17.3072 / 10.6077	43.5351	0.5657	0.0137	61.7513
High School	54.356 / 139.773	245.1227	1.7815	0.0440	302.7582
Junior High School	51.1104 / 131.427	230.4864	1.6751	0.0413	284.6805
Place of Worship	6.85227 / 10.7177	23.8728	0.2243	5.4800e-003	31.1110
Regional Shopping Center	638.995 / 391.642	1,607.3471	20.8852	0.5048	2,279.9029
Single Family Housing	1281.71 / 808.035	3,246.9281	41.8930	1.0127	4,596.0438
Total		16,403.2757	202.0694	4.8910	22,912.5250

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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	104.312 / 65.7617	264.2503	3.4095	0.0824	374.0477
City Park	0 / 379.38	386.2805	0.0175	3.6100e-003	387.7941
Elementary School	113.73 / 292.448	512.8743	3.7275	0.0920	633.4661
General Office Building	3705.2 / 2270.93	9,320.1573	121.1022	2.9270	13,219.9538
Government (Civic Center)	207.687 / 127.292	522.4211	6.7881	0.1641	741.0157
Government Office Building	17.3072 / 10.6077	43.5351	0.5657	0.0137	61.7513
High School	54.356 / 139.773	245.1227	1.7815	0.0440	302.7582
Junior High School	51.1104 / 131.427	230.4864	1.6751	0.0413	284.6805
Place of Worship	6.85227 / 10.7177	23.8728	0.2243	5.4800e-003	31.1110
Regional Shopping Center	638.995 / 391.642	1,607.3471	20.8852	0.5048	2,279.9029
Single Family Housing	1281.71 / 808.035	3,246.9281	41.8930	1.0127	4,596.0438
Total		16,403.2757	202.0694	4.8910	22,912.5250

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - Citywide Buildout - Feather River AQMD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13,641.20 99	806.1724	0.0000	33,795.52 02
Unmitigated	13,641.20 99	806.1724	0.0000	33,795.52 02

Wheatland CAP (2050) - Citywide Buildout - 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	736.46	149.4947	8.8349	0.0000	370.3669
City Park	27.38	5.5579	0.3285	0.0000	13.7694
Elementary School	5098.78	1,035.0063	61.1671	0.0000	2,564.1842
General Office Building	19387.6	3,935.5117	232.5821	0.0000	9,750.0635
Government (Civic Center)	5959.01	1,209.6252	71.4868	0.0000	2,996.7952
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	3222.13	654.0633	38.6540	0.0000	1,620.4141
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	9057.95	1,838.6820	108.6630	0.0000	4,555.2568
Single Family Housing	20254.3	4,111.4439	242.9794	0.0000	10,185.9283
Total		13,641.2099	806.1724	0.0000	33,795.5202

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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	736.46	149.4947	8.8349	0.0000	370.3669
City Park	27.38	5.5579	0.3285	0.0000	13.7694
Elementary School	5098.78	1,035.0063	61.1671	0.0000	2,564.1842
General Office Building	19387.6	3,935.5117	232.5821	0.0000	9,750.0635
Government (Civic Center)	5959.01	1,209.6252	71.4868	0.0000	2,996.7952
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	3222.13	654.0633	38.6540	0.0000	1,620.4141
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	9057.95	1,838.6820	108.6630	0.0000	4,555.2568
Single Family Housing	20254.3	4,111.4439	242.9794	0.0000	10,185.9283
Total		13,641.2099	806.1724	0.0000	33,795.5202

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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	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	0.76		
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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Wheatland CAP (2050 Non-Residential)
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	20,846.94	1000sqft	478.58	20,846,944.80	0
Government (Civic Center)	1,045.44	1000sqft	24.00	1,045,440.00	0
Government Office Building	87.12	1000sqft	2.00	87,120.00	0
Elementary School	3,922.14	1000sqft	90.04	3,922,142.40	0
High School	1,637.00	1000sqft	37.58	1,637,000.00	0
Junior High School	2,478.56	1000sqft	56.90	2,478,564.00	0
Place of Worship	219.00	1000sqft	5.03	219,000.00	0
City Park	318.41	Acre	318.41	13,869,939.60	0
Regional Shopping Center	8,626.62	1000sqft	198.04	8,626,622.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	67
Climate Zone	3			Operational Year	2050
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

Wheatland CAP (2050 Non-Residential) - Feather River AQMD Air District, Annual

Project Characteristics -

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	20,846,900.00	20,846,944.80
tblLandUse	LandUseSquareFeet	3,922,140.00	3,922,142.40
tblLandUse	LandUseSquareFeet	2,478,560.00	2,478,564.00
tblLandUse	LandUseSquareFeet	8,626,620.00	8,626,622.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00

2.0 Emissions Summary

Wheatland CAP (2050 Non-Residential) - 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	196.9742	3.2100e-003	0.3577	3.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	0.7001	0.7001	1.8000e-003	0.0000	0.7452
Energy	3.1573	28.7027	24.1103	0.1722		2.1814	2.1814		2.1814	2.1814	0.0000	126,990.0791	126,990.0791	4.9281	1.4686	127,550.9129
Mobile	62.1716	891.5084	677.0796	5.1659	480.4344	1.6192	482.0535	128.7707	1.5146	130.2852	0.0000	479,785.1815	479,785.1815	20.6435	0.0000	480,301.2678
Waste						0.0000	0.0000		0.0000	0.0000	9,380.2713	0.0000	9,380.2713	554.3582	0.0000	23,239.2250
Water						0.0000	0.0000		0.0000	0.0000	1,521.3071	11,370.7902	12,892.0973	156.7670	3.7958	17,942.4335
Total	262.3031	920.2143	701.5476	5.3382	480.4344	3.8018	484.2362	128.7707	3.6972	132.4679	10,901.5784	618,146.7508	629,048.3291	736.6985	5.2644	649,034.5844

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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	196.9742	3.2100e-003	0.3577	3.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	0.7001	0.7001	1.8000e-003	0.0000	0.7452
Energy	3.1573	28.7027	24.1103	0.1722		2.1814	2.1814		2.1814	2.1814	0.0000	126,990.0791	126,990.0791	4.9281	1.4686	127,550.9129
Mobile	62.1716	891.5084	677.0796	5.1659	480.4344	1.6192	482.0535	128.7707	1.5146	130.2852	0.0000	479,785.1815	479,785.1815	20.6435	0.0000	480,301.2678
Waste						0.0000	0.0000		0.0000	0.0000	9,380.2713	0.0000	9,380.2713	554.3582	0.0000	23,239.2250
Water						0.0000	0.0000		0.0000	0.0000	1,521.3071	11,370.7902	12,892.0973	156.7670	3.7958	17,942.4335
Total	262.3031	920.2143	701.5476	5.3382	480.4344	3.8018	484.2362	128.7707	3.6972	132.4679	10,901.5784	618,146.7508	629,048.3291	736.6985	5.2644	649,034.5844

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	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	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	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	10.80	7.30	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	62.1716	891.5084	677.0796	5.1659	480.4344	1.6192	482.0535	128.7707	1.5146	130.2852	0.0000	479,785.1815	479,785.1815	20.6435	0.0000	480,301.2678
Unmitigated	62.1716	891.5084	677.0796	5.1659	480.4344	1.6192	482.0535	128.7707	1.5146	130.2852	0.0000	479,785.1815	479,785.1815	20.6435	0.0000	480,301.2678

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	601.79	7,243.83	5330.18	4,752,483	4,752,483
Elementary School	60,518.62	0.00	0.00	95,314,194	95,314,194
General Office Building	229,941.75	51,283.47	21889.29	417,483,502	417,483,502
Government (Civic Center)	29,188.68	0.00	0.00	39,855,836	39,855,836
Government Office Building	6,005.18	0.00	0.00	7,355,835	7,355,835
High School	21,100.93	7,153.69	2930.23	43,232,790	43,232,790
Junior High School	34,154.56	0.00	0.00	54,847,200	54,847,200
Place of Worship	1,995.09	2,271.03	8021.97	5,416,561	5,416,561
Regional Shopping Center	368,356.67	431,072.20	217735.89	623,823,718	623,823,718
Total	751,863.28	499,024.22	255,907.56	1,292,082,118	1,292,082,118

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government (Civic Center)	9.50	7.30	7.30	75.00	20.00	5.00	50	34	16
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00	63	25	12
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00	64	25	11
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Elementary School	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
General Office Building	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Government (Civic Center)	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Government Office Building	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
High School	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Junior High School	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Place of Worship	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Regional Shopping Center	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392

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	95,743.7157	95,743.7157	4.3293	0.8957	96,118.8681
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	95,743.7157	95,743.7157	4.3293	0.8957	96,118.8681
NaturalGas Mitigated	3.1573	28.7027	24.1103	0.1722		2.1814	2.1814		2.1814	2.1814	0.0000	31,246.3633	31,246.3633	0.5989	0.5729	31,432.0448
NaturalGas Unmitigated	3.1573	28.7027	24.1103	0.1722		2.1814	2.1814		2.1814	2.1814	0.0000	31,246.3633	31,246.3633	0.5989	0.5729	31,432.0448

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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					
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	9.8485e+007	0.5311	4.8277	4.0553	0.0290		0.3669	0.3669		0.3669	0.3669	0.0000	5,255.5344	5,255.5344	0.1007	0.0964	5,286.7654
General Office Building	2.72053e+008	1.4670	13.3359	11.2022	0.0800		1.0135	1.0135		1.0135	1.0135	0.0000	14,517.7644	14,517.7644	0.2783	0.2662	14,604.0362
Government (Civic Center)	1.3643e+007	0.0736	0.6688	0.5618	4.0100e-003		0.0508	0.0508		0.0508	0.0508	0.0000	728.0420	728.0420	0.0140	0.0134	732.3684
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	6.22367e+007	0.3356	3.0508	2.5627	0.0183		0.2319	0.2319		0.2319	0.2319	0.0000	3,321.1896	3,321.1896	0.0637	0.0609	3,340.9257
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	9.23049e+007	0.4977	4.5248	3.8008	0.0272		0.3439	0.3439		0.3439	0.3439	0.0000	4,925.7388	4,925.7388	0.0944	0.0903	4,955.0100
Total		3.1573	28.7027	24.1103	0.1722		2.1814	2.1814		2.1814	2.1814	0.0000	31,246.3633	31,246.3633	0.5989	0.5729	31,432.0448

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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					
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	9.8485e+007	0.5311	4.8277	4.0553	0.0290		0.3669	0.3669		0.3669	0.3669	0.0000	5,255.5344	5,255.5344	0.1007	0.0964	5,286.7654
General Office Building	2.72053e+008	1.4670	13.3359	11.2022	0.0800		1.0135	1.0135		1.0135	1.0135	0.0000	14,517.7644	14,517.7644	0.2783	0.2662	14,604.0362
Government (Civic Center)	1.3643e+007	0.0736	0.6688	0.5618	4.0100e-003		0.0508	0.0508		0.0508	0.0508	0.0000	728.0420	728.0420	0.0140	0.0134	732.3684
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	6.22367e+007	0.3356	3.0508	2.5627	0.0183		0.2319	0.2319		0.2319	0.2319	0.0000	3,321.1896	3,321.1896	0.0637	0.0609	3,340.9257
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	9.23049e+007	0.4977	4.5248	3.8008	0.0272		0.3439	0.3439		0.3439	0.3439	0.0000	4,925.7388	4,925.7388	0.0944	0.0903	4,955.0100
Total		3.1573	28.7027	24.1103	0.1722		2.1814	2.1814		2.1814	2.1814	0.0000	31,246.3633	31,246.3633	0.5989	0.5729	31,432.0448

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	8,009.7933	0.3622	0.0749	8,041.1781
General Office Building	1.90124e+008	55,309.2914	2.5009	0.5174	55,526.0096
Government (Civic Center)	9.53441e+006	2,773.6700	0.1254	0.0260	2,784.5381
Government Office Building	794534	231.1392	0.0105	2.1600e-003	232.0448
High School	1.14917e+007	3,343.0789	0.1512	0.0313	3,356.1781
Junior High School	1.73995e+007	5,061.7197	0.2289	0.0474	5,081.5530
Place of Worship	1.93158e+006	561.9188	0.0254	5.2600e-003	564.1205
Regional Shopping Center	7.0307e+007	20,453.1045	0.9248	0.1913	20,533.2458
Total		95,743.7158	4.3293	0.8957	96,118.8681

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	8,009.7933	0.3622	0.0749	8,041.1781
General Office Building	1.90124e+008	55,309.2914	2.5009	0.5174	55,526.0096
Government (Civic Center)	9.53441e+006	2,773.6700	0.1254	0.0260	2,784.5381
Government Office Building	794534	231.1392	0.0105	2.1600e-003	232.0448
High School	1.14917e+007	3,343.0789	0.1512	0.0313	3,356.1781
Junior High School	1.73995e+007	5,061.7197	0.2289	0.0474	5,081.5530
Place of Worship	1.93158e+006	561.9188	0.0254	5.2600e-003	564.1205
Regional Shopping Center	7.0307e+007	20,453.1045	0.9248	0.1913	20,533.2458
Total		95,743.7158	4.3293	0.8957	96,118.8681

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	196.9742	3.2100e-003	0.3577	3.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	0.7001	0.7001	1.8000e-003	0.0000	0.7452
Unmitigated	196.9742	3.2100e-003	0.3577	3.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	0.7001	0.7001	1.8000e-003	0.0000	0.7452

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	45.0323					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	151.9092					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0327	3.2100e-003	0.3577	3.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	0.7001	0.7001	1.8000e-003	0.0000	0.7452
Total	196.9742	3.2100e-003	0.3577	3.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	0.7001	0.7001	1.8000e-003	0.0000	0.7452

Wheatland CAP (2050 Non-Residential) - 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	45.0323					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	151.9092					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0327	3.2100e-003	0.3577	3.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	0.7001	0.7001	1.8000e-003	0.0000	0.7452
Total	196.9742	3.2100e-003	0.3577	3.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	0.7001	0.7001	1.8000e-003	0.0000	0.7452

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12,892.09 73	156.7670	3.7958	17,942.43 35
Unmitigated	12,892.09 73	156.7670	3.7958	17,942.43 35

Wheatland CAP (2050 Non-Residential) - 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			
City Park	0 / 379.38	386.2805	0.0175	3.6100e-003	387.7941
Elementary School	113.73 / 292.448	512.8743	3.7275	0.0920	633.4661
General Office Building	3705.2 / 2270.93	9,320.1573	121.1022	2.9270	13,219.9538
Government (Civic Center)	207.687 / 127.292	522.4211	6.7881	0.1641	741.0157
Government Office Building	17.3072 / 10.6077	43.5351	0.5657	0.0137	61.7513
High School	54.356 / 139.773	245.1227	1.7815	0.0440	302.7582
Junior High School	51.1104 / 131.427	230.4864	1.6751	0.0413	284.6805
Place of Worship	6.85227 / 10.7177	23.8728	0.2243	5.4800e-003	31.1110
Regional Shopping Center	638.995 / 391.642	1,607.3471	20.8852	0.5048	2,279.9029
Total		12,892.0973	156.7670	3.7959	17,942.4335

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 379.38	386.2805	0.0175	3.6100e-003	387.7941
Elementary School	113.73 / 292.448	512.8743	3.7275	0.0920	633.4661
General Office Building	3705.2 / 2270.93	9,320.1573	121.1022	2.9270	13,219.9538
Government (Civic Center)	207.687 / 127.292	522.4211	6.7881	0.1641	741.0157
Government Office Building	17.3072 / 10.6077	43.5351	0.5657	0.0137	61.7513
High School	54.356 / 139.773	245.1227	1.7815	0.0440	302.7582
Junior High School	51.1104 / 131.427	230.4864	1.6751	0.0413	284.6805
Place of Worship	6.85227 / 10.7177	23.8728	0.2243	5.4800e-003	31.1110
Regional Shopping Center	638.995 / 391.642	1,607.3471	20.8852	0.5048	2,279.9029
Total		12,892.0973	156.7670	3.7959	17,942.4335

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050 Non-Residential) - Feather River AQMD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9,380.271 3	554.3582	0.0000	23,239.22 50
Unmitigated	9,380.271 3	554.3582	0.0000	23,239.22 50

Wheatland CAP (2050 Non-Residential) - 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			
City Park	27.38	5.5579	0.3285	0.0000	13.7694
Elementary School	5098.78	1,035.0063	61.1671	0.0000	2,564.1842
General Office Building	19387.6	3,935.5117	232.5821	0.0000	9,750.0635
Government (Civic Center)	5959.01	1,209.6252	71.4868	0.0000	2,996.7952
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	3222.13	654.0633	38.6540	0.0000	1,620.4141
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	9057.95	1,838.6820	108.6630	0.0000	4,555.2568
Total		9,380.2713	554.3582	0.0000	23,239.2250

Wheatland CAP (2050 Non-Residential) - 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			
City Park	27.38	5.5579	0.3285	0.0000	13.7694
Elementary School	5098.78	1,035.0063	61.1671	0.0000	2,564.1842
General Office Building	19387.6	3,935.5117	232.5821	0.0000	9,750.0635
Government (Civic Center)	5959.01	1,209.6252	71.4868	0.0000	2,996.7952
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	3222.13	654.0633	38.6540	0.0000	1,620.4141
Place of Worship	1248.3	253.3936	14.9751	0.0000	627.7720
Regional Shopping Center	9057.95	1,838.6820	108.6630	0.0000	4,555.2568
Total		9,380.2713	554.3582	0.0000	23,239.2250

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

Wheatland CAP (2050 Non-Residential) - Feather River AQMD Air District, Annual

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

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	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	0.28	0.61		
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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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	1,601.00	Dwelling Unit	66.81	1,601,000.00	4579
Single Family Housing	19,672.00	Dwelling Unit	4,534.12	35,409,600.00	56262

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	67
Climate Zone	3			Operational Year	2050
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LotAcreage	100.06	66.81
tblLandUse	LotAcreage	6,387.01	4,534.12
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	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	1,541.944 4	27.8823	1,804.925 9	2.9935		231.8943	231.8943		231.8943	231.8943	21,974.10 92	9,473.636 8	31,447.74 60	20.5241	1.7284	32,475.91 91
Energy	2.8954	24.7424	10.5287	0.1579		2.0005	2.0005		2.0005	2.0005	0.0000	80,968.92 28	80,968.92 28	2.9147	1.0148	81,344.18 53
Mobile	22.0757	295.7600	273.0772	2.1071	209.1965	0.6745	209.8710	56.0709	0.6313	56.7021	0.0000	195,464.0 868	195,464.0 868	6.8169	0.0000	195,634.5 088
Waste						0.0000	0.0000		0.0000	0.0000	4,260.938 6	0.0000	4,260.938 6	251.8143	0.0000	10,556.29 51
Water						0.0000	0.0000		0.0000	0.0000	439.7207	3,071.457 7	3,511.178 4	45.3024	1.0951	4,970.091 5
Total	1,566.915 4	348.3846	2,088.531 8	5.2585	209.1965	234.5693	443.7658	56.0709	234.5260	290.5969	26,674.76 86	288,978.1 040	315,652.8 726	327.3723	3.8383	324,980.9 998

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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	1,541.9444	27.8823	1,804.9259	2.9935		231.8943	231.8943		231.8943	231.8943	21,974.1092	9,473.6368	31,447.7460	20.5241	1.7284	32,475.9191
Energy	2.8954	24.7424	10.5287	0.1579		2.0005	2.0005		2.0005	2.0005	0.0000	80,968.9228	80,968.9228	2.9147	1.0148	81,344.1853
Mobile	22.0757	295.7600	273.0772	2.1071	209.1965	0.6745	209.8710	56.0709	0.6313	56.7021	0.0000	195,464.0868	195,464.0868	6.8169	0.0000	195,634.5088
Waste						0.0000	0.0000		0.0000	0.0000	4,260.9386	0.0000	4,260.9386	251.8143	0.0000	10,556.2951
Water						0.0000	0.0000		0.0000	0.0000	439.7207	3,071.4577	3,511.1784	45.3024	1.0951	4,970.0915
Total	1,566.9154	348.3846	2,088.5318	5.2585	209.1965	234.5693	443.7658	56.0709	234.5260	290.5969	26,674.7686	288,978.1040	315,652.8726	327.3723	3.8383	324,980.9998

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	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	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	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	10.80	7.30	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	22.0757	295.7600	273.0772	2.1071	209.1965	0.6745	209.8710	56.0709	0.6313	56.7021	0.0000	195,464.0868	195,464.0868	6.8169	0.0000	195,634.5088
Unmitigated	22.0757	295.7600	273.0772	2.1071	209.1965	0.6745	209.8710	56.0709	0.6313	56.7021	0.0000	195,464.0868	195,464.0868	6.8169	0.0000	195,634.5088

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	10,550.59	11,463.16	9718.07	30,255,372	30,255,372
Single Family Housing	187,277.44	194,949.52	169572.64	532,358,610	532,358,610
Total	197,828.03	206,412.68	179,290.71	562,613,982	562,613,982

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	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	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	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392
Single Family Housing	0.622730	0.026474	0.171122	0.079865	0.006944	0.003188	0.018243	0.065116	0.001059	0.000758	0.003443	0.000667	0.000392

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	52,314.60	52,314.60	2.3655	0.4894	52,519.58
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	52,314.60	52,314.60	2.3655	0.4894	52,519.58
NaturalGas Mitigated	2.8954	24.7424	10.5287	0.1579		2.0005	2.0005		2.0005	2.0005	0.0000	28,654.31	28,654.31	0.5492	0.5253	28,824.59
NaturalGas Unmitigated	2.8954	24.7424	10.5287	0.1579		2.0005	2.0005		2.0005	2.0005	0.0000	28,654.31	28,654.31	0.5492	0.5253	28,824.59

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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	2.26325e+007	0.1220	1.0429	0.4438	6.6600e-003		0.0843	0.0843		0.0843	0.0843	0.0000	1,207.7549	1,207.7549	0.0232	0.0221	1,214.9320
Single Family Housing	5.14329e+008	2.7733	23.6995	10.0849	0.1513		1.9161	1.9161		1.9161	1.9161	0.0000	27,446.5627	27,446.5627	0.5261	0.5032	27,609.6639
Total		2.8954	24.7424	10.5287	0.1579		2.0005	2.0005		2.0005	2.0005	0.0000	28,654.3177	28,654.3177	0.5492	0.5253	28,824.5959

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	2.26325e+007	0.1220	1.0429	0.4438	6.6600e-003		0.0843	0.0843		0.0843	0.0843	0.0000	1,207.7549	1,207.7549	0.0232	0.0221	1,214.9320
Single Family Housing	5.14329e+008	2.7733	23.6995	10.0849	0.1513		1.9161	1.9161		1.9161	1.9161	0.0000	27,446.5627	27,446.5627	0.5261	0.5032	27,609.6639
Total		2.8954	24.7424	10.5287	0.1579		2.0005	2.0005		2.0005	2.0005	0.0000	28,654.3177	28,654.3177	0.5492	0.5253	28,824.5959

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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	7.48871e+006	2,178.5515	0.0985	0.0204	2,187.0877
Single Family Housing	1.72341e+008	50,136.0537	2.2670	0.4690	50,332.5017
Total		52,314.6052	2.3655	0.4894	52,519.5894

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	2,178.5515	0.0985	0.0204	2,187.0877
Single Family Housing	1.72341e+008	50,136.0537	2.2670	0.4690	50,332.5017
Total		52,314.6052	2.3655	0.4894	52,519.5894

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	1,541.944 4	27.8823	1,804.925 9	2.9935		231.8943	231.8943		231.8943	231.8943	21,974.10 92	9,473.636 8	31,447.74 60	20.5241	1.7284	32,475.91 91
Unmitigated	1,541.944 4	27.8823	1,804.925 9	2.9935		231.8943	231.8943		231.8943	231.8943	21,974.10 92	9,473.636 8	31,447.74 60	20.5241	1.7284	32,475.91 91

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	57.8961					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	144.5449					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1,334.799 8	26.0671	1,647.665 3	2.9851		231.0184	231.0184		231.0184	231.0184	21,974.10 92	9,215.620 9	31,189.73 01	20.2785	1.7284	32,211.76 36
Landscaping	4.7035	1.8152	157.2606	8.3400e-003		0.8759	0.8759		0.8759	0.8759	0.0000	258.0158	258.0158	0.2456	0.0000	264.1556
Total	1,541.944 3	27.8823	1,804.925 9	2.9934		231.8943	231.8943		231.8943	231.8943	21,974.10 92	9,473.636 8	31,447.74 60	20.5241	1.7284	32,475.91 91

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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	57.8961					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	144.5449					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1,334.7998	26.0671	1,647.6653	2.9851		231.0184	231.0184		231.0184	231.0184	21,974.1092	9,215.6209	31,189.7301	20.2785	1.7284	32,211.7636
Landscaping	4.7035	1.8152	157.2606	8.3400e-003		0.8759	0.8759		0.8759	0.8759	0.0000	258.0158	258.0158	0.2456	0.0000	264.1556
Total	1,541.9443	27.8823	1,804.9259	2.9934		231.8943	231.8943		231.8943	231.8943	21,974.1092	9,473.6368	31,447.7460	20.5241	1.7284	32,475.9191

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3,511.178 4	45.3024	1.0951	4,970.091 5
Unmitigated	3,511.178 4	45.3024	1.0951	4,970.091 5

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	264.2503	3.4095	0.0824	374.0477
Single Family Housing	1281.71 / 808.035	3,246.928 1	41.8930	1.0127	4,596.043 8
Total		3,511.178 4	45.3024	1.0951	4,970.091 5

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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	104.312 / 65.7617	264.2503	3.4095	0.0824	374.0477
Single Family Housing	1281.71 / 808.035	3,246.928 1	41.8930	1.0127	4,596.043 8
Total		3,511.178 4	45.3024	1.0951	4,970.091 5

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4,260.938 6	251.8143	0.0000	10,556.29 51
Unmitigated	4,260.938 6	251.8143	0.0000	10,556.29 51

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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	736.46	149.4947	8.8349	0.0000	370.3669
Single Family Housing	20254.3	4,111.4439	242.9794	0.0000	10,185.9283
Total		4,260.9386	251.8143	0.0000	10,556.2951

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	736.46	149.4947	8.8349	0.0000	370.3669
Single Family Housing	20254.3	4,111.4439	242.9794	0.0000	10,185.9283
Total		4,260.9386	251.8143	0.0000	10,556.2951

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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	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	0.03	0.20		
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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