

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - Reduction Strategy Baseline

Feather River AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	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)	0	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Table Name	Column Name	Default Value	New Value
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

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

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

	ROG	NOx	CO	SO2	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	12/27/2041	5	6000	

Acres of Grading (Site Preparation Phase): 0

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

3.2 Site Preparation - 2041

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	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

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail**6.1 Mitigation Measures Area**

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	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) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0694	4.8910	8,470.277 1
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - Reduction Strategy Baseline - 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) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - Reduction Strategy Baseline - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
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	15.00	15.00	15.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

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

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

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

Area Mitigation

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

Energy Mitigation Measures

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

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - EM-3 (commercial only)
Feather River AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20,846.90	1000sqft	478.58	20,846,900.00	0
Regional Shopping Center	8,626.60	1000sqft	198.04	8,626,600.00	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)	0	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Energy Mitigation -

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	149.2858	2.4200e-003	0.2691	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	0.5267	0.5267	1.3600e-003	0.0000	0.5606
Energy	1.9647	17.8606	15.0029	0.1072		1.3574	1.3574		1.3574	1.3574	0.0000	19,443.4592	19,443.4592	3.7984	1.0652	19,855.8609
Mobile	50.7422	730.2703	548.4411	4.1814	387.1880	1.3088	388.4968	103.7779	1.2242	105.0021	0.0000	388,380.7710	388,380.7710	16.9139	0.0000	388,803.6189
Waste						0.0000	0.0000		0.0000	0.0000	5,774.1896	0.0000	5,774.1896	341.2448	0.0000	14,305.3103
Water						0.0000	0.0000		0.0000	0.0000	1,378.2116	0.0000	1,378.2116	141.9873	3.4318	5,950.5624
Total	201.9927	748.1333	563.7132	4.2886	387.1880	2.6672	389.8551	103.7779	2.5826	106.3604	7,152.4012	407,824.7569	414,977.1581	503.9459	4.4970	428,915.9130

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	149.2858	2.4200e-003	0.2691	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	0.5267	0.5267	1.3600e-003	0.0000	0.5606
Energy	1.9647	17.8606	15.0029	0.1072		1.3574	1.3574		1.3574	1.3574	0.0000	19,443.4592	19,443.4592	3.2846	0.9589	19,811.3320
Mobile	50.7422	730.2703	548.4411	4.1814	387.1880	1.3088	388.4968	103.7779	1.2242	105.0021	0.0000	388,380.7710	388,380.7710	16.9139	0.0000	388,803.6189
Waste						0.0000	0.0000		0.0000	0.0000	5,774.1896	0.0000	5,774.1896	341.2448	0.0000	14,305.3103
Water						0.0000	0.0000		0.0000	0.0000	1,378.2116	0.0000	1,378.2116	141.9873	3.4318	5,950.5624
Total	201.9927	748.1333	563.7132	4.2886	387.1880	2.6672	389.8551	103.7779	2.5826	106.3604	7,152.4012	407,824.7569	414,977.1581	503.4320	4.3907	428,871.3842

	ROG	NOx	CO	SO2	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	0.10	2.36	0.01

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/31/2018	8/7/2020	5	420	

Acres of Grading (Site Preparation Phase): 0

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

3.2 Site Preparation - 2020

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	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

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

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	50.7422	730.2703	548.4411	4.1814	387.1880	1.3088	388.4968	103.7779	1.2242	105.0021	0.0000	388,380.7710	388,380.7710	16.9139	0.0000	388,803.6189
Unmitigated	50.7422	730.2703	548.4411	4.1814	387.1880	1.3088	388.4968	103.7779	1.2242	105.0021	0.0000	388,380.7710	388,380.7710	16.9139	0.0000	388,803.6189

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	229,941.31	51,283.37	21889.25	417,482,701	417,482,701
Regional Shopping Center	368,355.82	431,071.20	217735.38	623,822,272	623,822,272
Total	598,297.13	482,354.58	239,624.63	1,041,304,973	1,041,304,973

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
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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
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

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	2.9119	0.6025	252.3301
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	3.4258	0.7088	296.8589
NaturalGas Mitigated	1.9647	17.8606	15.0029	0.1072		1.3574	1.3574		1.3574	1.3574	0.0000	19,443.4592	19,443.4592	0.3727	0.3565	19,559.0020
NaturalGas Unmitigated	1.9647	17.8606	15.0029	0.1072		1.3574	1.3574		1.3574	1.3574	0.0000	19,443.4592	19,443.4592	0.3727	0.3565	19,559.0020

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	2.72052e+008	1.4670	13.3359	11.2021	0.0800		1.0135	1.0135		1.0135	1.0135	0.0000	14,517.7332	14,517.7332	0.2783	0.2662	14,604.0048
Regional Shopping Center	9.23046e+007	0.4977	4.5247	3.8008	0.0272		0.3439	0.3439		0.3439	0.3439	0.0000	4,925.7260	4,925.7260	0.0944	0.0903	4,954.9972
Total		1.9647	17.8606	15.0029	0.1072		1.3574	1.3574		1.3574	1.3574	0.0000	19,443.4592	19,443.4592	0.3727	0.3565	19,559.0020

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	2.72052e+008	1.4670	13.3359	11.2021	0.0800		1.0135	1.0135		1.0135	1.0135	0.0000	14,517.7332	14,517.7332	0.2783	0.2662	14,604.0048
Regional Shopping Center	9.23046e+007	0.4977	4.5247	3.8008	0.0272		0.3439	0.3439		0.3439	0.3439	0.0000	4,925.7260	4,925.7260	0.0944	0.0903	4,954.9972
Total		1.9647	17.8606	15.0029	0.1072		1.3574	1.3574		1.3574	1.3574	0.0000	19,443.4592	19,443.4592	0.3727	0.3565	19,559.0020

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7178
Regional Shopping Center	7.03068e+007	0.0000	0.9248	0.1913	80.1411
Total		0.0000	3.4258	0.7088	296.8589

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.61605e+008	0.0000	2.1258	0.4398	184.2101
Regional Shopping Center	5.97608e+007	0.0000	0.7861	0.1626	68.1200
Total		0.0000	2.9119	0.6025	252.3301

6.0 Area Detail

6.1 Mitigation Measures Area

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	149.2858	2.4200e-003	0.2691	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	0.5267	0.5267	1.3600e-003	0.0000	0.5606
Unmitigated	149.2858	2.4200e-003	0.2691	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	0.5267	0.5267	1.3600e-003	0.0000	0.5606

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	34.1524					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	115.1088					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0246	2.4200e-003	0.2691	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	0.5267	0.5267	1.3600e-003	0.0000	0.5606
Total	149.2858	2.4200e-003	0.2691	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	0.5267	0.5267	1.3600e-003	0.0000	0.5606

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	34.1524					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	115.1088					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0246	2.4200e-003	0.2691	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	0.5267	0.5267	1.3600e-003	0.0000	0.5606
Total	149.2858	2.4200e-003	0.2691	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	0.5267	0.5267	1.3600e-003	0.0000	0.5606

7.0 Water Detail

7.1 Mitigation Measures Water

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,378.2116	141.9873	3.4318	5,950.5624
Unmitigated	1,378.2116	141.9873	3.4318	5,950.5624

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Regional Shopping Center	638.994 / 391.641	202.7233	20.8851	0.5048	875.2776
Total		1,378.2116	141.9873	3.4318	5,950.5624

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Regional Shopping Center	638.994 / 391.641	202.7233	20.8851	0.5048	875.2776
Total		1,378.2116	141.9873	3.4318	5,950.5624

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5,774.1896	341.2448	0.0000	14,305.3103
Unmitigated	5,774.1896	341.2448	0.0000	14,305.3103

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	19387.6	3,935.5117	232.5821	0.0000	9,750.0635
Regional Shopping Center	9057.93	1,838.6779	108.6628	0.0000	4,555.2468
Total		5,774.1896	341.2448	0.0000	14,305.3103

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	19387.6	3,935.5117	232.5821	0.0000	9,750.0635
Regional Shopping Center	9057.93	1,838.6779	108.6628	0.0000	4,555.2468
Total		5,774.1896	341.2448	0.0000	14,305.3103

9.0 Operational Offroad

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

Wheatland CAP (2050) - EM-3 (commercial only) - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	100.00	100.00	100.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.03	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		
Yes	On-site Renewable		100.00

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

Wheatland CAP (2050) EM-3 (residential only)
Feather River AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	1,601.00	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)	0	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Energy Mitigation -

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	0.00
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

Wheatland CAP (2050) EM-3 (residential only) - 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	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	28,654.31 77	28,654.31 77	2.9147	1.0148	29,029.58 01
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	0.0000	439.7207	45.3024	1.0951	1,898.633 8
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	233,592.0 412	260,266.8 098	327.3723	3.8383	269,594.9 369

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,541.9444	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	28,654.3177	28,654.3177	0.5492	0.5253	28,824.5959
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	0.0000	439.7207	45.3024	1.0951	1,898.6338
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	233,592.0412	260,266.8098	325.0068	3.3489	269,389.9528

	ROG	NOx	CO	SO2	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	0.72	12.75	0.08

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

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

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

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	2.3655	0.4894	204.9842
NaturalGas Mitigated	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
NaturalGas Unmitigated	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

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	2.3655	0.4894	204.9842

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	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

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	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

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	439.7207	45.3024	1.0951	1,898.6338
Unmitigated	439.7207	45.3024	1.0951	1,898.6338

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	33.0933	3.4095	0.0824	142.8906
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		439.7207	45.3024	1.0951	1,898.6338

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		439.7207	45.3024	1.0951	1,898.6338

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4,260.9386	251.8143	0.0000	10,556.2951
Unmitigated	4,260.9386	251.8143	0.0000	10,556.2951

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) EM-3 (residential only) - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	3.37	3.37	3.37
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	13.40	13.42	13.61	13.40	13.40	13.40	0.00	13.40	13.40	13.40	13.40	13.40
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	20.00	19.98	19.82	19.96
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
Yes	Exceed Title 24	15.00	
No	Install High Efficiency Lighting		
No	On-site Renewable		

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

Wheatland CAP (2050) EM-5
Feather River AQMD Air District, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	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)	0	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Energy Mitigation -

Water Mitigation -

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
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

Wheatland CAP (2050) EM-5 - 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	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	5.2415	46.2725	29.9254	0.2859		3.6214	3.6214		3.6214	3.6214	0.0000	51,872.6884	51,872.6884	7.4633	2.2894	52,741.5213
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	1,568.8222	0.0000	1,568.8222	161.6981	3.9216	6,779.9144
Total	1,828.4073	1,261.4264	2,785.3658	10.5524	689.6309	237.8106	927.4415	184.8415	237.6628	422.5043	37,184.1414	736,596.2935	773,780.4348	1,023.3200	7.9395	801,729.3968

	ROG	NOx	CO	SO2	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	0.04	0.57	0.17	0.42	0.00	0.24	0.06	0.00	0.24	0.13	1.04	1.08	1.08	3.83	12.78	1.21

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

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.4691	1.3384	560.5795
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
NaturalGas Mitigated	5.2415	46.2725	29.9254	0.2859		3.6214	3.6214		3.6214	3.6214	0.0000	51,872.6884	51,872.6884	0.9942	0.9510	52,180.9418
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

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

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	2.01317e+007	0.1086	0.9276	0.3947	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	1,074.3031	1,074.3031	0.0206	0.0197	1,080.6872
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	8.48418e+007	0.4575	4.1589	3.4935	0.0250		0.3161	0.3161		0.3161	0.3161	0.0000	4,527.4828	4,527.4828	0.0868	0.0830	4,554.3874
General Office Building	2.3212e+008	1.2516	11.3785	9.5579	0.0683		0.8648	0.8648		0.8648	0.8648	0.0000	12,386.8235	12,386.8235	0.2374	0.2271	12,460.4322
Government (Civic Center)	1.16405e+007	0.0628	0.5706	0.4793	3.4200e-003		0.0434	0.0434		0.0434	0.0434	0.0000	621.1788	621.1788	0.0119	0.0114	624.8702
Government Office Building	970038	5.2300e-003	0.0476	0.0399	2.9000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	51.7649	51.7649	9.9000e-004	9.5000e-004	52.0725
High School	3.54108e+007	0.1909	1.7358	1.4581	0.0104		0.1319	0.1319		0.1319	0.1319	0.0000	1,889.6533	1,889.6533	0.0362	0.0346	1,900.8826
Junior High School	5.36151e+007	0.2891	2.6282	2.2077	0.0158		0.1997	0.1997		0.1997	0.1997	0.0000	2,861.1036	2,861.1036	0.0548	0.0525	2,878.1057
Place of Worship	4.01109e+006	0.0216	0.1966	0.1652	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	214.0473	214.0473	4.1000e-003	3.9200e-003	215.3193
Regional Shopping Center	8.11506e+007	0.4376	3.9780	3.3415	0.0239		0.3023	0.3023		0.3023	0.3023	0.0000	4,330.5070	4,330.5070	0.0830	0.0794	4,356.2411
Single Family Housing	4.48166e+008	2.4166	20.6508	8.7876	0.1318		1.6696	1.6696		1.6696	1.6696	0.0000	23,915.8240	23,915.8240	0.4584	0.4385	24,057.9438
Total		5.2415	46.2725	29.9254	0.2859		3.6214	3.6214		3.6214	3.6214	0.0000	51,872.6884	51,872.6884	0.9942	0.9510	52,180.9418

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.32195e+006	0.0000	0.0963	0.0199	8.3461
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.62744e+007	0.0000	0.3456	0.0715	29.9496
General Office Building	1.81931e+008	0.0000	2.3932	0.4951	207.3794
Government (Civic Center)	9.12355e+006	0.0000	0.1200	0.0248	10.3997
Government Office Building	760296	0.0000	0.0100	2.0700e-003	0.8666
High School	1.09663e+007	0.0000	0.1443	0.0299	12.5002
Junior High School	1.66039e+007	0.0000	0.2184	0.0452	18.9264
Place of Worship	1.86719e+006	0.0000	0.0246	5.0800e-003	2.1284
Regional Shopping Center	6.75378e+007	0.0000	0.8884	0.1838	76.9849
Single Family Housing	1.69402e+008	0.0000	2.2284	0.4610	193.0981
Total		0.0000	6.4691	1.3385	560.5795

6.0 Area Detail**6.1 Mitigation Measures Area**

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) EM-5 - 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

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,568.822 2	161.6981	3.9216	6,779.914 4
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) EM-5 - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	83.4493 / 65.7617	26.4746	2.7282	0.0661	114.3650
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	90.984 / 292.448	28.8650	2.9847	0.0741	125.5718
General Office Building	2964.16 / 2270.93	940.3906	96.9027	2.3459	4,062.0398
Government (Civic Center)	166.149 / 127.292	52.7116	5.4317	0.1315	227.6888
Government Office Building	13.8458 / 10.6077	4.3926	0.4526	0.0110	18.9741
High School	43.4848 / 139.773	13.7957	1.4265	0.0354	60.0157
Junior High School	40.8883 / 131.427	12.9720	1.3413	0.0333	56.4321
Place of Worship	5.48182 / 10.7177	1.7391	0.1795	4.4000e-003	7.5382
Regional Shopping Center	511.196 / 391.642	162.1790	16.7118	0.4046	700.5362
Single Family Housing	1025.37 / 808.035	325.3020	33.5218	0.8117	1,405.2392
Total		1,568.8223	161.6981	3.9216	6,779.9144

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) EM-5 - 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) EM-5 - 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

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) EM-5 - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	11.01	11.01	11.01
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		
Yes	Install High Efficiency Lighting	35.00	
No	On-site Renewable		

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

Water Mitigation Measures

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

Solid Waste Mitigation

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

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - EM-6 and EM-8
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)	0	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Energy Mitigation -

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
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

Wheatland CAP (2050) - EM-6 and EM-8 - 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	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.1059	2.3308	60,772.9170
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,063.3339	8.9503	811,451.1551

	ROG	NOx	CO	SO2	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	0.07	1.67	0.01

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/28/2057	4/30/2057	5	1	

Acres of Grading (Site Preparation Phase): 0

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	5.9578	1.2327	516.2762
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.03462e+006	0.0000	0.0925	0.0192	8.0186
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.34289e+007	0.0000	0.3082	0.0638	26.7061
General Office Building	1.67411e+008	0.0000	2.2022	0.4556	190.8285
Government (Civic Center)	8.46597e+006	0.0000	0.1114	0.0230	9.6502
Government Office Building	705498	0.0000	9.2800e-003	1.9200e-003	0.8042
High School	9.77862e+006	0.0000	0.1286	0.0266	11.1464
Junior High School	1.48057e+007	0.0000	0.1948	0.0403	16.8767
Place of Worship	1.72463e+006	0.0000	0.0227	4.6900e-003	1.9659
Regional Shopping Center	5.8303e+007	0.0000	0.7669	0.1587	66.4583
Single Family Housing	1.61264e+008	0.0000	2.1213	0.4389	183.8213
Total		0.0000	5.9578	1.2326	516.2762

6.0 Area Detail

6.1 Mitigation Measures Area

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - EM-6 and EM-8 - 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) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0694	4.8910	8,470.277 1
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - EM-6 and EM-8 - 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) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - EM-6 and EM-8 - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	8.62	8.61	8.62
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	29.36	29.36	29.36	29.26	29.36	29.36	0.00	29.36	29.36	29.32	29.32	29.36
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

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

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

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

Area Mitigation

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

Energy Mitigation Measures

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

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

**Wheatland CAP (2050) - EM-7
Feather River AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (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

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)	0	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Architectural Coating -

Energy Mitigation - Assumes Tier 2 Compliance

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7365	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0202	0.0202	5.0000e-005	0.0000	0.0215
Energy	0.0797	0.7245	0.6086	4.3500e-003		0.0551	0.0551		0.0551	0.0551	0.0000	788.7122	788.7122	0.1510	0.0426	805.1728
Mobile	2.3649	34.2995	25.1456	0.1914	17.5547	0.0597	17.6144	4.7052	0.0559	4.7611	0.0000	17,781.8982	17,781.8982	0.7948	0.0000	17,801.7686
Waste						0.0000	0.0000		0.0000	0.0000	1,226.0715	0.0000	1,226.0715	72.4588	0.0000	3,037.5403
Water						0.0000	0.0000		0.0000	0.0000	71.3802	0.0000	71.3802	7.3538	0.1777	308.1910
Total	8.1811	35.0241	25.7646	0.1958	17.5547	0.1148	17.6695	4.7052	0.1110	4.8162	1,297.4517	18,570.6306	19,868.0824	80.7584	0.2203	21,952.6943

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7365	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0202	0.0202	5.0000e-005	0.0000	0.0215
Energy	0.0563	0.5118	0.4299	3.0700e-003		0.0389	0.0389		0.0389	0.0389	0.0000	557.1753	557.1753	0.1348	0.0359	571.2453
Mobile	2.3649	34.2995	25.1456	0.1914	17.5547	0.0597	17.6144	4.7052	0.0559	4.7611	0.0000	17,781.8982	17,781.8982	0.7948	0.0000	17,801.7686
Waste						0.0000	0.0000		0.0000	0.0000	1,226.0715	0.0000	1,226.0715	72.4588	0.0000	3,037.5403
Water						0.0000	0.0000		0.0000	0.0000	71.3802	0.0000	71.3802	7.3538	0.1777	308.1910
Total	8.1577	34.8114	25.5859	0.1945	17.5547	0.0987	17.6534	4.7052	0.0948	4.8000	1,297.4517	18,339.0937	19,636.5455	80.7423	0.2136	21,718.7668

	ROG	NOx	CO	SO2	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	0.29	0.61	0.69	0.65	0.00	14.07	0.09	0.00	14.56	0.34	0.00	1.25	1.17	0.02	3.03	1.07

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	4/27/2057	5	0	

Acres of Grading (Site Preparation Phase): 0

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

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	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

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

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	2.3649	34.2995	25.1456	0.1914	17.5547	0.0597	17.6144	4.7052	0.0559	4.7611	0.0000	17,781.8982	17,781.8982	0.7948	0.0000	17,801.7686
Unmitigated	2.3649	34.2995	25.1456	0.1914	17.5547	0.0597	17.6144	4.7052	0.0559	4.7611	0.0000	17,781.8982	17,781.8982	0.7948	0.0000	17,801.7686

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
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
Total	35,193.87	0.00	0.00	47,211,670	47,211,670

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government (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

4.4 Fleet Mix

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.1242	0.0257	10.7590
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.1359	0.0281	11.7737
NaturalGas Mitigated	0.0563	0.5118	0.4299	3.0700e-003		0.0389	0.0389		0.0389	0.0389	0.0000	557.1753	557.1753	0.0107	0.0102	560.4863
NaturalGas Unmitigated	0.0797	0.7245	0.6086	4.3500e-003		0.0551	0.0551		0.0551	0.0551	0.0000	788.7122	788.7122	0.0151	0.0145	793.3991

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government (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
Total		0.0797	0.7245	0.6086	4.3400e-003		0.0551	0.0551		0.0551	0.0551	0.0000	788.7122	788.7122	0.0151	0.0145	793.3991

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government (Civic Center)	9.63791e+006	0.0520	0.4725	0.3969	2.8300e-003		0.0359	0.0359		0.0359	0.0359	0.0000	514.3157	514.3157	9.8600e-003	9.4300e-003	517.3720
Government Office Building	803159	4.3300e-003	0.0394	0.0331	2.4000e-004		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003	0.0000	42.8596	42.8596	8.2000e-004	7.9000e-004	43.1143
Total		0.0563	0.5118	0.4299	3.0700e-003		0.0389	0.0389		0.0389	0.0389	0.0000	557.1753	557.1753	0.0107	0.0102	560.4863

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
Total		0.0000	0.1359	0.0281	11.7737

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government (Civic Center)	8.7127e+006	0.0000	0.1146	0.0237	9.9314
Government Office Building	726058	0.0000	9.5500e-003	1.9800e-003	0.8276
Total		0.0000	0.1242	0.0257	10.7590

6.0 Area Detail

6.1 Mitigation Measures Area

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7365	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0202	0.0202	5.0000e-005	0.0000	0.0215
Unmitigated	5.7365	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0202	0.0202	5.0000e-005	0.0000	0.0215

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	1.3124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.4232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.5000e-004	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0202	0.0202	5.0000e-005	0.0000	0.0215
Total	5.7365	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0202	0.0202	5.0000e-005	0.0000	0.0215

Wheatland CAP (2050) - EM-7 - 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	1.3124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.4232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.5000e-004	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0202	0.0202	5.0000e-005	0.0000	0.0215
Total	5.7365	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0202	0.0202	5.0000e-005	0.0000	0.0215

7.0 Water Detail

7.1 Mitigation Measures Water

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	71.3802	7.3538	0.1777	308.1910
Unmitigated	71.3802	7.3538	0.1777	308.1910

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
Total		71.3802	7.3538	0.1777	308.1910

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
Total		71.3802	7.3538	0.1777	308.1910

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,226.0715	72.4588	0.0000	3,037.5403
Unmitigated	1,226.0715	72.4588	0.0000	3,037.5403

Wheatland CAP (2050) - EM-7 - 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			
Government (Civic Center)	5959.01	1,209.625 2	71.4868	0.0000	2,996.795 2
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
Total		1,226.071 5	72.4588	0.0000	3,037.540 3

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government (Civic Center)	5959.01	1,209.625 2	71.4868	0.0000	2,996.795 2
Government Office Building	81.02	16.4463	0.9720	0.0000	40.7451
Total		1,226.071 5	72.4588	0.0000	3,037.540 3

9.0 Operational Offroad

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

Wheatland CAP (2050) - EM-7 - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	0.37	0.20	0.70	0.73	0.78	0.79	0.00	0.72	0.72	0.19	0.00	0.72
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.76		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
Yes	Land Use	Integrate Below Market Rate Housing	0.01	22.60		
	Land Use	Land Use SubTotal	0.01			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
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	0.01		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		

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

Area Mitigation

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

Energy Mitigation Measures

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

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - LU-2
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)	0	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

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

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
Mobile	83.9359	1,184.8644	943.5269	7.2201	683.3966	2.2756	685.6723	183.1706	2.1290	185.2995	0.0000	670,356.9723	670,356.9723	27.4078	0.0000	671,042.1674
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
Total	1,828.9071	1,266.1950	2,783.4494	10.5437	683.3966	238.3531	921.7497	183.1706	238.2064	421.3770	37,576.3469	739,731.9901	777,308.3371	1,064.0183	9.1027	806,621.4063

	ROG	NOx	CO	SO2	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	0.02	0.19	0.24	0.50	0.90	0.01	0.67	0.90	0.01	0.40	0.00	0.66	0.63	0.00	0.00	0.60

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	12/27/2041	5	6000	

Acres of Grading (Site Preparation Phase): 0

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

3.2 Site Preparation - 2041

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	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

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

4.1 Mitigation Measures Mobile

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	83.9359	1,184.864 4	943.5269	7.2201	683.3966	2.2756	685.6723	183.1706	2.1290	185.2995	0.0000	670,356.9 723	670,356.9 723	27.4078	0.0000	671,042.1 674
Unmitigated	84.2473	1,187.268 4	950.1568	7.2730	689.6309	2.2936	691.9245	184.8415	2.1458	186.9873	0.0000	675,249.2 682	675,249.2 682	27.4603	0.0000	675,935.7 766

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	29,981,864
City Park	601.79	7,243.83	5330.18	4,752,483	4,709,520
Elementary School	60,518.62	0.00	0.00	95,314,194	94,452,554
General Office Building	229,941.75	51,283.47	21889.29	417,483,502	413,709,451
Government (Civic Center)	29,188.68	0.00	0.00	39,855,836	39,495,539
Government Office Building	6,005.18	0.00	0.00	7,355,835	7,289,338
High School	21,100.93	7,153.69	2930.23	43,232,790	42,841,965
Junior High School	34,154.56	0.00	0.00	54,847,200	54,351,382
Place of Worship	1,995.09	2,271.03	8021.97	5,416,561	5,367,595
Regional Shopping Center	368,356.67	431,072.20	217735.89	623,823,718	618,184,352
Single Family Housing	187,277.44	194,949.52	169572.64	532,358,610	527,546,088
Total	949,691.31	705,436.90	435,198.27	1,854,696,100	1,837,929,647

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

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
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

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail

6.1 Mitigation Measures Area

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - LU-2 - 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) - LU-2 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0694	4.8910	8,470.277 1
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - LU-2 - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - LU-2 - 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) - LU-2 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - LU-2 - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	4.09	2.24	7.72	8.05	8.67	8.69	0.00	8.01	8.01	2.12	0.00	8.01
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
Yes	Land Use	Increase Diversity	0.30	0.76		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.10			

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

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

Area Mitigation

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

Energy Mitigation Measures

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

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - LU-3
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)	0	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Mobile Land Use Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	0.00
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
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

Wheatland CAP (2050) - LU-3 - 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	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
Mobile	80.8023	1,160.6763	876.8164	6.6876	620.6678	2.0947	622.7625	166.3574	1.9594	168.3168	0.0000	621,130.9503	621,130.9503	26.8793	0.0000	621,802.9321
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
Total	1,825.7735	1,242.0068	2,716.7389	10.0112	620.6678	238.1722	858.8400	166.3574	238.0368	404.3942	37,576.3469	690,505.9682	728,082.3151	1,063.4898	9.1027	757,382.1710

	ROG	NOx	CO	SO2	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	0.19	2.10	2.63	5.52	10.00	0.08	7.45	10.00	0.08	4.41	0.00	7.27	6.92	0.05	0.00	6.67

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

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

4.1 Mitigation Measures Mobile

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	80.8023	1,160.6763	876.8164	6.6876	620.6678	2.0947	622.7625	166.3574	1.9594	168.3168	0.0000	621,130.9503	621,130.9503	26.8793	0.0000	621,802.9321
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	27,229,835
City Park	601.79	7,243.83	5330.18	4,752,483	4,277,234
Elementary School	60,518.62	0.00	0.00	95,314,194	85,782,775
General Office Building	229,941.75	51,283.47	21889.29	417,483,502	375,735,152
Government (Civic Center)	29,188.68	0.00	0.00	39,855,836	35,870,252
Government Office Building	6,005.18	0.00	0.00	7,355,835	6,620,251
High School	21,100.93	7,153.69	2930.23	43,232,790	38,909,511
Junior High School	34,154.56	0.00	0.00	54,847,200	49,362,480
Place of Worship	1,995.09	2,271.03	8021.97	5,416,561	4,874,905
Regional Shopping Center	368,356.67	431,072.20	217735.89	623,823,718	561,441,346
Single Family Housing	187,277.44	194,949.52	169572.64	532,358,610	479,122,749
Total	949,691.31	705,436.90	435,198.27	1,854,696,100	1,669,226,490

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

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
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

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail**6.1 Mitigation Measures Area**

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - LU-3 - 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) - LU-3 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0694	4.8910	8,470.277 1
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - LU-3 - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - LU-3 - 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) - LU-3 - 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

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - LU-3 - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	50.00
------------------------------------------------------------------------------------	-------

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - SWM-1

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/MW hr)	0	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Waste Mitigation -

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
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

Wheatland CAP (2050) - SWM-1 - 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	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	6,820.6050	0.0000	6,820.6050	403.0862	0.0000	16,897.7601
Water						0.0000	0.0000		0.0000	0.0000	1,961.0278	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
Total	1,829.2185	1,268.5989	2,790.0794	10.5966	689.6309	238.3711	928.0019	184.8415	238.2233	423.0648	30,755.7420	744,624.2861	775,380.0280	660.9846	9.1027	794,617.2554

	ROG	NOx	CO	SO2	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	18.15	0.00	0.87	37.88	0.00	2.08

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

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail**6.1 Mitigation Measures Area**

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - SWM-1 - 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) - SWM-1 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0694	4.8910	8,470.277 1
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - SWM-1 - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6,820.605 0	403.0862	0.0000	16,897.76 01
Unmitigated	13,641.20 99	806.1724	0.0000	33,795.52 02

Wheatland CAP (2050) - SWM-1 - 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

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	368.23	74.7474	4.4174	0.0000	185.1834
City Park	13.69	2.7790	0.1642	0.0000	6.8847
Elementary School	2549.39	517.5031	30.5836	0.0000	1,282.0921
General Office Building	9693.81	1,967.7558	116.2910	0.0000	4,875.0318
Government (Civic Center)	2979.51	604.8126	35.7434	0.0000	1,498.3976
Government Office Building	40.51	8.2232	0.4860	0.0000	20.3725
High School	1064.05	215.9925	12.7648	0.0000	535.1124
Junior High School	1611.07	327.0316	19.3270	0.0000	810.2070
Place of Worship	624.15	126.6968	7.4876	0.0000	313.8860
Regional Shopping Center	4528.98	919.3410	54.3315	0.0000	2,277.6284
Single Family Housing	10127.2	2,055.7220	121.4897	0.0000	5,092.9641
Total		6,820.6050	403.0862	0.0000	16,897.7601

9.0 Operational Offroad

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

Wheatland CAP (2050) - SWM-1 - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	0.82	0.45	1.54	1.61	1.73	1.74	0.00	1.60	1.60	0.42	0.00	1.60
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.76		
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			

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

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

Area Mitigation

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

Energy Mitigation Measures

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

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - TM-1
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/MW hr)	0	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

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

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
Mobile	83.5583	1,181.9499	935.4887	7.1559	675.8383	2.2538	678.0921	181.1447	2.1085	183.2532	0.0000	664,425.6047	664,425.6047	27.3441	0.0000	665,109.2077
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
Total	1,828.5295	1,263.2805	2,775.4113	10.4795	675.8383	238.3313	914.1695	181.1447	238.1860	419.3307	37,576.3469	733,800.6225	771,376.9694	1,063.9546	9.1027	800,688.4465

	ROG	NOx	CO	SO2	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	0.04	0.42	0.53	1.10	2.00	0.02	1.49	2.00	0.02	0.88	0.00	1.45	1.38	0.01	0.00	1.33

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	12/27/2041	5	6000	

Acres of Grading (Site Preparation Phase): 0

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

3.2 Site Preparation - 2041

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	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

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	83.5583	1,181.9499	935.4887	7.1559	675.8383	2.2538	678.0921	181.1447	2.1085	183.2532	0.0000	664,425.6047	664,425.6047	27.3441	0.0000	665,109.2077
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	29,650,265
City Park	601.79	7,243.83	5330.18	4,752,483	4,657,433
Elementary School	60,518.62	0.00	0.00	95,314,194	93,407,910
General Office Building	229,941.75	51,283.47	21889.29	417,483,502	409,133,832
Government (Civic Center)	29,188.68	0.00	0.00	39,855,836	39,058,719
Government Office Building	6,005.18	0.00	0.00	7,355,835	7,208,718
High School	21,100.93	7,153.69	2930.23	43,232,790	42,368,134
Junior High School	34,154.56	0.00	0.00	54,847,200	53,750,256
Place of Worship	1,995.09	2,271.03	8021.97	5,416,561	5,308,230
Regional Shopping Center	368,356.67	431,072.20	217735.89	623,823,718	611,347,244
Single Family Housing	187,277.44	194,949.52	169572.64	532,358,610	521,711,437
Total	949,691.31	705,436.90	435,198.27	1,854,696,100	1,817,602,178

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

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
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

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail

6.1 Mitigation Measures Area

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - TM-1 - 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) - TM-1 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0694	4.8910	8,470.277 1
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - TM-1 - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - TM-1 - 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) - TM-1 - 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

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - TM-1 - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	2.04	1.12	3.86	4.02	4.34	4.34	0.00	4.01	4.01	1.06	0.00	4.00
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: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.30	0.76		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			

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

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

Area Mitigation

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

Energy Mitigation Measures

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

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - TM-2
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/MW hr)	0	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

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

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
Mobile	82.5248	1,173.9723	913.4866	6.9803	655.1493	2.1942	657.3435	175.5994	2.0526	177.6520	0.0000	648,190.1093	648,190.1093	27.1698	0.0000	648,869.3543
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
Total	1,827.4960	1,255.3029	2,753.4092	10.3039	655.1493	238.2716	893.4210	175.5994	238.1301	413.7295	37,576.3469	717,565.1271	755,141.4740	1,063.7803	9.1027	784,448.5932

	ROG	NOx	CO	SO2	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	0.09	1.05	1.31	2.76	5.00	0.04	3.73	5.00	0.04	2.21	0.00	3.63	3.46	0.03	0.00	3.34

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	12/27/2041	5	6000	

Acres of Grading (Site Preparation Phase): 0

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

3.2 Site Preparation - 2041

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	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

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

4.1 Mitigation Measures Mobile

Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	82.5248	1,173.9723	913.4866	6.9803	655.1493	2.1942	657.3435	175.5994	2.0526	177.6520	0.0000	648,190.1093	648,190.1093	27.1698	0.0000	648,869.3543
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	28,742,604
City Park	601.79	7,243.83	5330.18	4,752,483	4,514,859
Elementary School	60,518.62	0.00	0.00	95,314,194	90,548,485
General Office Building	229,941.75	51,283.47	21889.29	417,483,502	396,609,327
Government (Civic Center)	29,188.68	0.00	0.00	39,855,836	37,863,044
Government Office Building	6,005.18	0.00	0.00	7,355,835	6,988,043
High School	21,100.93	7,153.69	2930.23	43,232,790	41,071,150
Junior High School	34,154.56	0.00	0.00	54,847,200	52,104,840
Place of Worship	1,995.09	2,271.03	8021.97	5,416,561	5,145,733
Regional Shopping Center	368,356.67	431,072.20	217735.89	623,823,718	592,632,532
Single Family Housing	187,277.44	194,949.52	169572.64	532,358,610	505,740,679
Total	949,691.31	705,436.90	435,198.27	1,854,696,100	1,761,961,295

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

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
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

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail

6.1 Mitigation Measures Area

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - TM-2 - 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) - TM-2 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0694	4.8910	8,470.277 1
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - TM-2 - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - TM-2 - 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) - TM-2 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - TM-2 - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	0.18	0.10	0.34	0.35	0.38	0.38	0.00	0.35	0.35	0.09	0.00	0.35
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.30	0.76		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			

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

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

Area Mitigation

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

Energy Mitigation Measures

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

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - TM-3a
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)	0	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

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

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
Mobile	84.0957	1,186.0987	946.9309	7.2472	686.5975	2.2849	688.8824	184.0285	2.1376	186.1661	0.0000	672,868.8470	672,868.8470	27.4348	0.0000	673,554.7163
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
Total	1,829.0670	1,267.4292	2,786.8535	10.5709	686.5975	238.3623	924.9598	184.0285	238.2151	422.2436	37,576.3469	742,243.8648	779,820.2117	1,064.0453	9.1027	809,133.9552

	ROG	NOx	CO	SO2	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	0.01	0.09	0.12	0.24	0.44	0.00	0.33	0.44	0.00	0.19	0.00	0.32	0.30	0.00	0.00	0.29

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	12/27/2041	5	6000	

Acres of Grading (Site Preparation Phase): 0

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

3.2 Site Preparation - 2041

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	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

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

4.1 Mitigation Measures Mobile

Expand Transit Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	84.0957	1,186.0987	946.9309	7.2472	686.5975	2.2849	688.8824	184.0285	2.1376	186.1661	0.0000	672,868.8470	672,868.8470	27.4348	0.0000	673,554.7163
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	30,122,293
City Park	601.79	7,243.83	5330.18	4,752,483	4,731,579
Elementary School	60,518.62	0.00	0.00	95,314,194	94,894,950
General Office Building	229,941.75	51,283.47	21889.29	417,483,502	415,647,180
Government (Civic Center)	29,188.68	0.00	0.00	39,855,836	39,680,528
Government Office Building	6,005.18	0.00	0.00	7,355,835	7,323,480
High School	21,100.93	7,153.69	2930.23	43,232,790	43,042,628
Junior High School	34,154.56	0.00	0.00	54,847,200	54,605,952
Place of Worship	1,995.09	2,271.03	8021.97	5,416,561	5,392,736
Regional Shopping Center	368,356.67	431,072.20	217735.89	623,823,718	621,079,798
Single Family Housing	187,277.44	194,949.52	169572.64	532,358,610	530,017,004
Total	949,691.31	705,436.90	435,198.27	1,854,696,100	1,846,538,127

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

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
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

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail

6.1 Mitigation Measures Area

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - TM-3a - 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) - TM-3a - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0694	4.8910	8,470.277 1
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - TM-3a - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - TM-3a - 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) - TM-3a - 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

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - TM-3a - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	0.03	0.01	0.05	0.05	0.06	0.06	0.00	0.05	0.05	0.01	0.00	0.05
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.30	0.76		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			

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

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

Area Mitigation

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

Energy Mitigation Measures

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

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - TM-3b
Feather River AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	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)	0	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

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

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
Mobile	84.2243	1,187.0912	949.6682	7.2691	689.1714	2.2923	691.4637	184.7184	2.1446	186.8629	0.0000	674,888.6698	674,888.6698	27.4565	0.0000	675,575.0813
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
Total	1,829.1955	1,268.4217	2,789.5907	10.5927	689.1714	238.3698	927.5411	184.7184	238.2220	422.9404	37,576.3469	744,263.6876	781,840.0345	1,064.0670	9.1027	811,154.3202

	ROG	NOx	CO	SO2	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	0.01	0.02	0.04	0.07	0.00	0.05	0.07	0.00	0.03	0.00	0.05	0.05	0.00	0.00	0.04

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	12/27/2041	5	6000	

Acres of Grading (Site Preparation Phase): 0

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

3.2 Site Preparation - 2041

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	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

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

4.1 Mitigation Measures Mobile

Increase Transit Frequency

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	84.2243	1,187.0912	949.6682	7.2691	689.1714	2.2923	691.4637	184.7184	2.1446	186.8629	0.0000	674,888.6698	674,888.6698	27.4565	0.0000	675,575.0813
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	30,235,213
City Park	601.79	7,243.83	5330.18	4,752,483	4,749,316
Elementary School	60,518.62	0.00	0.00	95,314,194	95,250,685
General Office Building	229,941.75	51,283.47	21889.29	417,483,502	417,205,326
Government (Civic Center)	29,188.68	0.00	0.00	39,855,836	39,829,279
Government Office Building	6,005.18	0.00	0.00	7,355,835	7,350,933
High School	21,100.93	7,153.69	2930.23	43,232,790	43,203,983
Junior High School	34,154.56	0.00	0.00	54,847,200	54,810,655
Place of Worship	1,995.09	2,271.03	8021.97	5,416,561	5,412,952
Regional Shopping Center	368,356.67	431,072.20	217735.89	623,823,718	623,408,055
Single Family Housing	187,277.44	194,949.52	169572.64	532,358,610	532,003,891
Total	949,691.31	705,436.90	435,198.27	1,854,696,100	1,853,460,288

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

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
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

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail

6.1 Mitigation Measures Area

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - TM-3b - 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) - TM-3b - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0694	4.8910	8,470.277 1
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - TM-3b - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - TM-3b - 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) - TM-3b - 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

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - TM-3b - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	2.04	1.12	3.86	4.02	4.34	4.34	0.00	4.01	4.01	1.06	0.00	4.00
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: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.30	0.76		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			

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

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

Area Mitigation

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

Energy Mitigation Measures

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

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - TM-4
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/MW hr)	0	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

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

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
Mobile	82.5248	1,173.9723	913.4866	6.9803	655.1493	2.1942	657.3435	175.5994	2.0526	177.6520	0.0000	648,190.1093	648,190.1093	27.1698	0.0000	648,869.3543
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
Total	1,827.4960	1,255.3029	2,753.4092	10.3039	655.1493	238.2716	893.4210	175.5994	238.1301	413.7295	37,576.3469	717,565.1271	755,141.4740	1,063.7803	9.1027	784,448.5932

	ROG	NOx	CO	SO2	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	0.09	1.05	1.31	2.76	5.00	0.04	3.73	5.00	0.04	2.21	0.00	3.63	3.46	0.03	0.00	3.34

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	12/27/2041	5	6000	

Acres of Grading (Site Preparation Phase): 0

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

3.2 Site Preparation - 2041

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	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

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

4.1 Mitigation Measures Mobile

Limit Parking Supply

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	82.5248	1,173.9723	913.4866	6.9803	655.1493	2.1942	657.3435	175.5994	2.0526	177.6520	0.0000	648,190.1093	648,190.1093	27.1698	0.0000	648,869.3543
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	28,742,604
City Park	601.79	7,243.83	5330.18	4,752,483	4,514,859
Elementary School	60,518.62	0.00	0.00	95,314,194	90,548,485
General Office Building	229,941.75	51,283.47	21889.29	417,483,502	396,609,327
Government (Civic Center)	29,188.68	0.00	0.00	39,855,836	37,863,044
Government Office Building	6,005.18	0.00	0.00	7,355,835	6,988,043
High School	21,100.93	7,153.69	2930.23	43,232,790	41,071,150
Junior High School	34,154.56	0.00	0.00	54,847,200	52,104,840
Place of Worship	1,995.09	2,271.03	8021.97	5,416,561	5,145,733
Regional Shopping Center	368,356.67	431,072.20	217735.89	623,823,718	592,632,532
Single Family Housing	187,277.44	194,949.52	169572.64	532,358,610	505,740,679
Total	949,691.31	705,436.90	435,198.27	1,854,696,100	1,761,961,295

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

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
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

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail

6.1 Mitigation Measures Area

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - TM-4 - 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) - TM-4 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0694	4.8910	8,470.277 1
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - TM-4 - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 65.7617	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - TM-4 - 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) - TM-4 - 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

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - TM-4 - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - WM-2
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)	0	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Water Mitigation -

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
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

Wheatland CAP (2050) - WM-2 - 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	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0268	4.8822	8,466.5844
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	744,624.2861	782,200.6330	1,064.0282	9.0939	811,511.3227

	ROG	NOx	CO	SO2	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	0.10	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

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail**6.1 Mitigation Measures Area**

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - WM-2 - 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

Apply Water Conservation Strategy

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0268	4.8822	8,466.584 4
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - WM-2 - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 52.6093	33.0933	3.4088	0.0823	142.8382
City Park	0 / 303.504	0.0000	0.0140	2.8900e-003	1.2109
Elementary School	113.73 / 233.959	36.0813	3.7248	0.0914	156.4397
General Office Building	3705.2 / 1816.74	1,175.4883	121.0813	2.9227	5,073.4727
Government (Civic Center)	207.687 / 101.834	65.8894	6.7870	0.1638	284.3825
Government Office Building	17.3072 / 8.48613	5.4908	0.5656	0.0137	23.6985
High School	54.356 / 111.818	17.2447	1.7802	0.0437	74.7686
Junior High School	51.1104 / 105.141	16.2150	1.6739	0.0411	70.3042
Place of Worship	6.85227 / 8.57412	2.1739	0.2242	5.4500e-003	9.4035
Regional Shopping Center	638.995 / 313.314	202.7238	20.8816	0.5040	874.9671
Single Family Housing	1281.71 / 646.428	406.6275	41.8855	1.0112	1,755.0984
Total		1,961.0278	202.0268	4.8822	8,466.5843

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Wheatland CAP (2050) - WM-2 - 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) - WM-2 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - WM-2 - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	0.02	0.18	0.04
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
Yes	Apply Water Conservation on Strategy	0.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
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	0.04	0.01
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	0.00	0.00
Yes	Use Reclaimed Water	0.00	10.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - WM-3
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)	0	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Waste Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

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

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0609	4.8892	8,469.5386
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	744,624.2861	782,200.6330	1,064.0623	9.1010	811,514.2769

	ROG	NOx	CO	SO2	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	0.02	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	12/27/2041	5	6000	

Acres of Grading (Site Preparation Phase): 0

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

3.2 Site Preparation - 2041

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	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

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail

6.1 Mitigation Measures Area

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - WM-3 - 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

Use Reclaimed Water

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.0278	202.0609	4.8892	8,469.5386
Unmitigated	1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - WM-3 - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 63.1312	33.0933	3.4093	0.0824	142.8802
City Park	0 / 364.204	0.0000	0.0168	3.4700e-003	1.4530
Elementary School	113.73 / 280.751	36.0813	3.7269	0.0919	156.6264
General Office Building	3705.2 / 2180.09	1,175.4883	121.0980	2.9261	5,074.9224
Government (Civic Center)	207.687 / 122.2	65.8894	6.7879	0.1640	284.4637
Government Office Building	17.3072 / 10.1834	5.4908	0.5657	0.0137	23.7053
High School	54.356 / 134.182	17.2447	1.7812	0.0439	74.8579
Junior High School	51.1104 / 126.17	16.2150	1.6749	0.0413	70.3881
Place of Worship	6.85227 / 10.2889	2.1739	0.2242	5.4700e-003	9.4104
Regional Shopping Center	638.995 / 375.977	202.7238	20.8845	0.5046	875.2171
Single Family Housing	1281.71 / 775.713	406.6275	41.8915	1.0124	1,755.6142
Total		1,961.0278	202.0609	4.8892	8,469.5386

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - WM-3 - 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) - WM-3 - 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

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - WM-3 - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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	0.01	0.09	0.02
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	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
Yes	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
------------------------------------------------------------------------------------	--

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

Wheatland CAP (2050) - WM-3b
Feather River AQMD Air District, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	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)	0	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

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

Land Use - City Information

Construction Phase - Construction not modeled

Off-road Equipment - Construction not modeled

Trips and VMT - Construction not modeled

Water Mitigation -

Waste Mitigation -

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
tblProjectCharacteristics	CO2IntensityFactor	641.35	0

2.0 Emissions Summary

Wheatland CAP (2050) - WM-3b - 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	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0694	4.8910	8,470.2771
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	744,624.2861	782,200.6330	1,064.0709	9.1027	811,515.0154

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,738.9185	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	59,900.6810	59,900.6810	7.8429	2.4833	60,836.7773
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	0.0000	1,961.0278	202.0481	4.8866	8,468.4307
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	744,624.2861	782,200.6330	1,064.0496	9.0983	811,513.1690

	ROG	NOx	CO	SO2	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	0.05	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

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

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	0.0000	0.0000	6.6948	1.3851	580.1365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	6.6948	1.3851	580.1365
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

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

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

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.48871e+006	0.0000	0.0985	0.0204	8.5362
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.75334e+007	0.0000	0.3622	0.0749	31.3848
General Office Building	1.90124e+008	0.0000	2.5009	0.5174	216.7183
Government (Civic Center)	9.53441e+006	0.0000	0.1254	0.0260	10.8681
Government Office Building	794534	0.0000	0.0105	2.1600e-003	0.9057
High School	1.14917e+007	0.0000	0.1512	0.0313	13.0992
Junior High School	1.73995e+007	0.0000	0.2289	0.0474	19.8333
Place of Worship	1.93158e+006	0.0000	0.0254	5.2600e-003	2.2018
Regional Shopping Center	7.0307e+007	0.0000	0.9248	0.1913	80.1413
Single Family Housing	1.72341e+008	0.0000	2.2670	0.4690	196.4480
Total		0.0000	6.6948	1.3851	580.1365

6.0 Area Detail**6.1 Mitigation Measures Area**

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,738.9185	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) - WM-3b - 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

Use Grey Water

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,961.027 8	202.0481	4.8866	8,468.430 7
Unmitigated	1,961.027 8	202.0694	4.8910	8,470.277 1

Wheatland CAP (2050) - WM-3b - 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	33.0933	3.4095	0.0824	142.8906
City Park	0 / 379.38	0.0000	0.0175	3.6100e-003	1.5136
Elementary School	113.73 / 292.448	36.0813	3.7275	0.0920	156.6730
General Office Building	3705.2 / 2270.93	1,175.4883	121.1022	2.9270	5,075.2848
Government (Civic Center)	207.687 / 127.292	65.8894	6.7881	0.1641	284.4840
Government Office Building	17.3072 / 10.6077	5.4908	0.5657	0.0137	23.7070
High School	54.356 / 139.773	17.2447	1.7815	0.0440	74.8802
Junior High School	51.1104 / 131.427	16.2150	1.6751	0.0413	70.4091
Place of Worship	6.85227 / 10.7177	2.1739	0.2243	5.4800e-003	9.4121
Regional Shopping Center	638.995 / 391.642	202.7238	20.8852	0.5048	875.2796
Single Family Housing	1281.71 / 808.035	406.6275	41.8930	1.0127	1,755.7431
Total		1,961.0278	202.0694	4.8910	8,470.2771

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	104.312 / 59.1855	33.0933	3.4091	0.0824	142.8644
City Park	0 / 341.442	0.0000	0.0157	3.2500e-003	1.3622
Elementary School	113.73 / 263.204	36.0813	3.7261	0.0917	156.5564
General Office Building	3705.2 / 2043.83	1,175.4883	121.0917	2.9248	5,074.3788
Government (Civic Center)	207.687 / 114.563	65.8894	6.7875	0.1639	284.4332
Government Office Building	17.3072 / 9.54689	5.4908	0.5656	0.0137	23.7028
High School	54.356 / 125.795	17.2447	1.7809	0.0438	74.8244
Junior High School	51.1104 / 118.284	16.2150	1.6745	0.0412	70.3566
Place of Worship	6.85227 / 9.64589	2.1739	0.2242	5.4600e-003	9.4078
Regional Shopping Center	638.995 / 352.478	202.7238	20.8834	0.5044	875.1234
Single Family Housing	1281.71 / 727.231	406.6275	41.8893	1.0120	1,755.4208
Total		1,961.0278	202.0481	4.8866	8,468.4307

8.0 Waste Detail

8.1 Mitigation Measures Waste

Wheatland CAP (2050) - WM-3b - 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) - WM-3b - 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

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

Wheatland CAP (2050) - WM-3b - Feather River AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation
