

TECHNICAL APPENDIX

CalEEMod Model Output Files

The following CalEEMod emissions model output files are presented below:

CalEEMod Model Output File
Without Mitigation Measures
Annual Period

CalEEMod Model Output File
Without Mitigation Measures
Daily Summer Period

CalEEMod Model Output File
Without Mitigation Measures
Daily Winter Period

CalEEMod Model Output File
With Mitigation Measures
Annual Period

CalEEMod Model Output File
With Mitigation Measures
Daily Summer Period

CalEEMod Model Output File
With Mitigation Measures
Daily Winter Period

CalEEMod Model Output File
Without Mitigation Measures
Annual Period

Cheney-Wilson Subdivision Project - Colusa County, Annual

Cheney-Wilson Subdivision Project
Colusa County, Annual**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	34.00	Dwelling Unit	11.04	61,200.00	97

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	3			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 Intentsity Factor per PG&E 2015.

Land Use - Per Musallam pers. comm., 35 units including 1 existing unit. 34 net new units.

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - VOC content per Colusa County APCD Rule 2.26 - Architectural Coatings. 125 g/L average of flat and nonflat coatings.

Vehicle Trips - ITE Trip Generation Manual 10th edition: 9.44 for weekdays, 9.54 for Saturday, 8.55 for Sunday.

Woodstoves -

Area Coating - VOC content per Colusa County APCD Rule 2.26 - Architectural Coatings. Use 125 g/L average of flat and nonflat.

Energy Use -

Fleet Mix - 10.7% heavy-duty trucks too high for SFDUs. Set HHD to 2%. Move 8.7% to LDA. 62.3938% new SFDU value.

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	125.00
tblArchitecturalCoating	EF_Parking	250.00	125.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	125.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	125
tblAreaCoating	Area_EF_Nonresidential_Interior	250	125
tblAreaCoating	Area_EF_Parking	250	125
tblAreaCoating	Area_EF_Residential_Exterior	250	125
tblAreaCoating	Area_EF_Residential_Interior	250	125
tblFleetMix	HHD	0.07	0.02
tblFleetMix	LDA	0.54	0.62
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	6.6800e-003	0.00
tblFleetMix	MHD	7.9660e-003	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

Cheney-Wilson Subdivision Project - Colusa County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2365	2.2959	1.7709	3.1100e-003	0.2317	0.1192	0.3510	0.1067	0.1112	0.2179	0.0000	270.5431	270.5431	0.0707	0.0000	272.3114
2021	0.6561	1.6215	1.5749	2.6600e-003	0.0114	0.0870	0.0984	3.0800e-003	0.0817	0.0848	0.0000	230.4863	230.4863	0.0536	0.0000	231.8254
Maximum	0.6561	2.2959	1.7709	3.1100e-003	0.2317	0.1192	0.3510	0.1067	0.1112	0.2179	0.0000	270.5431	270.5431	0.0707	0.0000	272.3114

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2365	2.2959	1.7709	3.1100e-003	0.2317	0.1192	0.3510	0.1067	0.1112	0.2179	0.0000	270.5428	270.5428	0.0707	0.0000	272.3111
2021	0.6561	1.6215	1.5749	2.6600e-003	0.0114	0.0870	0.0984	3.0800e-003	0.0817	0.0848	0.0000	230.4860	230.4860	0.0536	0.0000	231.8251
Maximum	0.6561	2.2959	1.7709	3.1100e-003	0.2317	0.1192	0.3510	0.1067	0.1112	0.2179	0.0000	270.5428	270.5428	0.0707	0.0000	272.3111

[illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2020	7-31-2020	1.3365	1.3365
2	8-1-2020	10-31-2020	0.7191	0.7191
3	11-1-2020	1-31-2021	0.6970	0.6970
4	2-1-2021	4-30-2021	0.6314	0.6314
5	5-1-2021	7-31-2021	0.6525	0.6525
6	8-1-2021	9-30-2021	0.5257	0.5257
		Highest	1.3365	1.3365

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	2.4279	0.0446	2.8864	4.7800e-003		0.3706	0.3706		0.3706	0.3706	35.1206	15.1414	50.2620	0.0328	2.7600e-003	51.9055
Energy	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	86.6188	86.6188	4.8300e-003	1.6800e-003	87.2403
Mobile	0.0988	0.3326	1.2032	3.6500e-003	0.3356	2.8000e-003	0.3384	0.0895	2.6100e-003	0.0921	0.0000	332.4785	332.4785	0.0135	0.0000	332.8155
Waste						0.0000	0.0000		0.0000	0.0000	7.0884	0.0000	7.0884	0.4189	0.0000	17.5613
Water						0.0000	0.0000		0.0000	0.0000	0.7028	2.2197	2.9225	0.0724	1.7500e-003	5.2543
Total	2.5315	0.4182	4.1070	8.6900e-003	0.3356	0.3767	0.7123	0.0895	0.3765	0.4660	42.9118	436.4585	479.3703	0.5425	6.1900e-003	494.7769

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.4279	0.0446	2.8864	4.7800e-003		0.3706	0.3706		0.3706	0.3706	35.1206	15.1414	50.2620	0.0328	2.7600e-003	51.9055
Energy	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	86.6188	86.6188	4.8300e-003	1.6800e-003	87.2403
Mobile	0.0988	0.3326	1.2032	3.6500e-003	0.3356	2.8000e-003	0.3384	0.0895	2.6100e-003	0.0921	0.0000	332.4785	332.4785	0.0135	0.0000	332.8155
Waste						0.0000	0.0000		0.0000	0.0000	7.0884	0.0000	7.0884	0.4189	0.0000	17.5613
Water						0.0000	0.0000		0.0000	0.0000	0.7028	2.2197	2.9225	0.0724	1.7500e-003	5.2543
Total	2.5315	0.4182	4.1070	8.6900e-003	0.3356	0.3767	0.7123	0.0895	0.3765	0.4660	42.9118	436.4585	479.3703	0.5425	6.1900e-003	494.7769

	ROG	NOx	CO	SO2	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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2020	5/14/2020	5	10	
2	Grading	Grading	5/15/2020	6/25/2020	5	30	
3	Building Construction	Building Construction	6/26/2020	8/19/2021	5	300	
4	Paving	Paving	8/20/2021	9/16/2021	5	20	
5	Architectural Coating	Architectural Coating	9/17/2021	10/14/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 123,930; Residential Outdoor: 41,310; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.6000e-004	3.0000e-004	2.7400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6202	0.6202	2.0000e-005	0.0000	0.6207
Total	3.6000e-004	3.0000e-004	2.7400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6202	0.6202	2.0000e-005	0.0000	0.6207

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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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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	3.6000e-004	3.0000e-004	2.7400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6202	0.6202	2.0000e-005	0.0000	0.6207
Total	3.6000e-004	3.0000e-004	2.7400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6202	0.6202	2.0000e-005	0.0000	0.6207

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3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872
Total	0.0668	0.7530	0.4794	9.3000e-004	0.1301	0.0326	0.1627	0.0540	0.0300	0.0840	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.2100e-003	9.9000e-004	9.1300e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0673	2.0673	7.0000e-005	0.0000	2.0691
Total	1.2100e-003	9.9000e-004	9.1300e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0673	2.0673	7.0000e-005	0.0000	2.0691

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3.3 Grading - 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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871
Total	0.0668	0.7530	0.4794	9.3000e-004	0.1301	0.0326	0.1627	0.0540	0.0300	0.0840	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871

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	1.2100e-003	9.9000e-004	9.1300e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0673	2.0673	7.0000e-005	0.0000	2.0691
Total	1.2100e-003	9.9000e-004	9.1300e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0673	2.0673	7.0000e-005	0.0000	2.0691

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3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1431	1.2951	1.1373	1.8200e-003		0.0754	0.0754		0.0709	0.0709	0.0000	156.3367	156.3367	0.0381	0.0000	157.2903
Total	0.1431	1.2951	1.1373	1.8200e-003		0.0754	0.0754		0.0709	0.0709	0.0000	156.3367	156.3367	0.0381	0.0000	157.2903

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4200e-003	0.0318	0.0101	8.0000e-005	1.7800e-003	1.7000e-004	1.9500e-003	5.1000e-004	1.6000e-004	6.8000e-004	0.0000	7.4953	7.4953	4.7000e-004	0.0000	7.5071
Worker	3.2800e-003	2.6800e-003	0.0246	6.0000e-005	6.4300e-003	4.0000e-005	6.4800e-003	1.7100e-003	4.0000e-005	1.7500e-003	0.0000	5.5817	5.5817	1.9000e-004	0.0000	5.5865
Total	4.7000e-003	0.0345	0.0348	1.4000e-004	8.2100e-003	2.1000e-004	8.4300e-003	2.2200e-003	2.0000e-004	2.4300e-003	0.0000	13.0771	13.0771	6.6000e-004	0.0000	13.0936

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3.4 Building Construction - 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					
Off-Road	0.1431	1.2951	1.1373	1.8200e-003		0.0754	0.0754		0.0709	0.0709	0.0000	156.3366	156.3366	0.0381	0.0000	157.2901
Total	0.1431	1.2951	1.1373	1.8200e-003		0.0754	0.0754		0.0709	0.0709	0.0000	156.3366	156.3366	0.0381	0.0000	157.2901

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	1.4200e-003	0.0318	0.0101	8.0000e-005	1.7800e-003	1.7000e-004	1.9500e-003	5.1000e-004	1.6000e-004	6.8000e-004	0.0000	7.4953	7.4953	4.7000e-004	0.0000	7.5071
Worker	3.2800e-003	2.6800e-003	0.0246	6.0000e-005	6.4300e-003	4.0000e-005	6.4800e-003	1.7100e-003	4.0000e-005	1.7500e-003	0.0000	5.5817	5.5817	1.9000e-004	0.0000	5.5865
Total	4.7000e-003	0.0345	0.0348	1.4000e-004	8.2100e-003	2.1000e-004	8.4300e-003	2.2200e-003	2.0000e-004	2.4300e-003	0.0000	13.0771	13.0771	6.6000e-004	0.0000	13.0936

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3.4 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1568	1.4382	1.3675	2.2200e-003		0.0791	0.0791		0.0744	0.0744	0.0000	191.1008	191.1008	0.0461	0.0000	192.2534
Total	0.1568	1.4382	1.3675	2.2200e-003		0.0791	0.0791		0.0744	0.0744	0.0000	191.1008	191.1008	0.0461	0.0000	192.2534

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4800e-003	0.0355	0.0108	1.0000e-004	2.1800e-003	1.1000e-004	2.2900e-003	6.3000e-004	1.1000e-004	7.4000e-004	0.0000	9.0923	9.0923	5.7000e-004	0.0000	9.1064
Worker	3.6900e-003	2.9100e-003	0.0272	7.0000e-005	7.8600e-003	5.0000e-005	7.9100e-003	2.0900e-003	5.0000e-005	2.1400e-003	0.0000	6.5857	6.5857	2.1000e-004	0.0000	6.5909
Total	5.1700e-003	0.0384	0.0381	1.7000e-004	0.0100	1.6000e-004	0.0102	2.7200e-003	1.6000e-004	2.8800e-003	0.0000	15.6779	15.6779	7.8000e-004	0.0000	15.6973

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3.4 Building Construction - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1568	1.4382	1.3675	2.2200e-003		0.0791	0.0791		0.0744	0.0744	0.0000	191.1005	191.1005	0.0461	0.0000	192.2531
Total	0.1568	1.4382	1.3675	2.2200e-003		0.0791	0.0791		0.0744	0.0744	0.0000	191.1005	191.1005	0.0461	0.0000	192.2531

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	1.4800e-003	0.0355	0.0108	1.0000e-004	2.1800e-003	1.1000e-004	2.2900e-003	6.3000e-004	1.1000e-004	7.4000e-004	0.0000	9.0923	9.0923	5.7000e-004	0.0000	9.1064
Worker	3.6900e-003	2.9100e-003	0.0272	7.0000e-005	7.8600e-003	5.0000e-005	7.9100e-003	2.0900e-003	5.0000e-005	2.1400e-003	0.0000	6.5857	6.5857	2.1000e-004	0.0000	6.5909
Total	5.1700e-003	0.0384	0.0381	1.7000e-004	0.0100	1.6000e-004	0.0102	2.7200e-003	1.6000e-004	2.8800e-003	0.0000	15.6779	15.6779	7.8000e-004	0.0000	15.6973

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3.5 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	5.6000e-004	4.4000e-004	4.1300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9978	0.9978	3.0000e-005	0.0000	0.9986
Total	5.6000e-004	4.4000e-004	4.1300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9978	0.9978	3.0000e-005	0.0000	0.9986

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3.5 Paving - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

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	5.6000e-004	4.4000e-004	4.1300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9978	0.9978	3.0000e-005	0.0000	0.9986
Total	5.6000e-004	4.4000e-004	4.1300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9978	0.9978	3.0000e-005	0.0000	0.9986

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3.6 Architectural Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4787					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	0.4809	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	7.0000e-005	6.0000e-005	5.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1330	0.1330	0.0000	0.0000	0.1332
Total	7.0000e-005	6.0000e-005	5.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1330	0.1330	0.0000	0.0000	0.1332

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3.6 Architectural Coating - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4787					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	0.4809	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

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	7.0000e-005	6.0000e-005	5.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1330	0.1330	0.0000	0.0000	0.1332
Total	7.0000e-005	6.0000e-005	5.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1330	0.1330	0.0000	0.0000	0.1332

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0988	0.3326	1.2032	3.6500e-003	0.3356	2.8000e-003	0.3384	0.0895	2.6100e-003	0.0921	0.0000	332.4785	332.4785	0.0135	0.0000	332.8155
Unmitigated	0.0988	0.3326	1.2032	3.6500e-003	0.3356	2.8000e-003	0.3384	0.0895	2.6100e-003	0.0921	0.0000	332.4785	332.4785	0.0135	0.0000	332.8155

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	320.96	324.36	290.70	907,685	907,685
Total	320.96	324.36	290.70	907,685	907,685

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.623938	0.036131	0.183149	0.127934	0.000000	0.000000	0.000000	0.020000	0.000936	0.001568	0.004917	0.000552	0.000876

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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	39.1817	39.1817	3.9200e-003	8.1000e-004	39.5213
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.1817	39.1817	3.9200e-003	8.1000e-004	39.5213
NaturalGas Mitigated	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190
NaturalGas Unmitigated	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	888938	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190
Total		4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190

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					
Single Family Housing	888938	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190
Total		4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	297865	39.1817	3.9200e-003	8.1000e-004	39.5213
Total		39.1817	3.9200e-003	8.1000e-004	39.5213

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	297865	39.1817	3.9200e-003	8.1000e-004	39.5213
Total		39.1817	3.9200e-003	8.1000e-004	39.5213

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.4279	0.0446	2.8864	4.7800e-003		0.3706	0.3706		0.3706	0.3706	35.1206	15.1414	50.2620	0.0328	2.7600e-003	51.9055
Unmitigated	2.4279	0.0446	2.8864	4.7800e-003		0.3706	0.3706		0.3706	0.3706	35.1206	15.1414	50.2620	0.0328	2.7600e-003	51.9055

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0479					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.1334	0.0417	2.6334	4.7700e-003		0.3692	0.3692		0.3692	0.3692	35.1206	14.7291	49.8496	0.0324	2.7600e-003	51.4831
Landscaping	7.6700e-003	2.9200e-003	0.2530	1.0000e-005		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	0.4124	0.4124	4.0000e-004	0.0000	0.4224
Total	2.4279	0.0446	2.8864	4.7800e-003		0.3706	0.3706		0.3706	0.3706	35.1206	15.1414	50.2620	0.0328	2.7600e-003	51.9055

Cheney-Wilson Subdivision Project - Colusa County, 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	0.0479					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.1334	0.0417	2.6334	4.7700e-003		0.3692	0.3692		0.3692	0.3692	35.1206	14.7291	49.8496	0.0324	2.7600e-003	51.4831
Landscaping	7.6700e-003	2.9200e-003	0.2530	1.0000e-005		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	0.4124	0.4124	4.0000e-004	0.0000	0.4224
Total	2.4279	0.0446	2.8864	4.7800e-003		0.3706	0.3706		0.3706	0.3706	35.1206	15.1414	50.2620	0.0328	2.7600e-003	51.9055

7.0 Water Detail**7.1 Mitigation Measures Water**

Cheney-Wilson Subdivision Project - Colusa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.9225	0.0724	1.7500e-003	5.2543
Unmitigated	2.9225	0.0724	1.7500e-003	5.2543

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.21524 / 1.39656	2.9225	0.0724	1.7500e-003	5.2543
Total		2.9225	0.0724	1.7500e-003	5.2543

Cheney-Wilson Subdivision Project - Colusa County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.21524 / 1.39656	2.9225	0.0724	1.7500e-003	5.2543
Total		2.9225	0.0724	1.7500e-003	5.2543

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.0884	0.4189	0.0000	17.5613
Unmitigated	7.0884	0.4189	0.0000	17.5613

Cheney-Wilson Subdivision Project - Colusa County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	34.92	7.0884	0.4189	0.0000	17.5613
Total		7.0884	0.4189	0.0000	17.5613

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	34.92	7.0884	0.4189	0.0000	17.5613
Total		7.0884	0.4189	0.0000	17.5613

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Cheney-Wilson Subdivision Project - Colusa County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

CalEEMod Model Output File
Without Mitigation Measures
Daily Summer Period

Cheney-Wilson Subdivision Project - Colusa County, Summer

Cheney-Wilson Subdivision Project
Colusa County, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	34.00	Dwelling Unit	11.04	61,200.00	97

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	3			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Cheney-Wilson Subdivision Project - Colusa County, Summer

Project Characteristics - CO2 Intentsity Factor per PG&E 2015.

Land Use - Per Musallam pers. comm., 35 units including 1 existing unit. 34 net new units.

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - VOC content per Colusa County APCD Rule 2.26 - Architectural Coatings. 125 g/L average of flat and nonflat coatings.

Vehicle Trips - ITE Trip Generation Manual 10th edition: 9.44 for weekdays, 9.54 for Saturday, 8.55 for Sunday.

Woodstoves -

Area Coating - VOC content per Colusa County APCD Rule 2.26 - Architectural Coatings. Use 125 g/L average of flat and nonflat.

Energy Use -

Fleet Mix - 10.7% heavy-duty trucks too high for SFDUs. Set HHD to 2%. Move 8.7% to LDA. 62.3938% new SFDU value.

Cheney-Wilson Subdivision Project - Colusa County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	125.00
tblArchitecturalCoating	EF_Parking	250.00	125.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	125.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	125
tblAreaCoating	Area_EF_Nonresidential_Interior	250	125
tblAreaCoating	Area_EF_Parking	250	125
tblAreaCoating	Area_EF_Residential_Exterior	250	125
tblAreaCoating	Area_EF_Residential_Interior	250	125
tblFleetMix	HHD	0.07	0.02
tblFleetMix	LDA	0.54	0.62
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	6.6800e-003	0.00
tblFleetMix	MHD	7.9660e-003	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

Cheney-Wilson Subdivision Project - Colusa County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5449	50.2582	32.6798	0.0637	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,174.6305	6,174.6305	1.9483	0.0000	6,223.3389
2021	48.0956	17.8864	17.0902	0.0291	0.1257	0.9606	1.0863	0.0340	0.9031	0.9371	0.0000	2,774.3572	2,774.3572	0.7178	0.0000	2,790.0159
Maximum	48.0956	50.2582	32.6798	0.0637	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,174.6305	6,174.6305	1.9483	0.0000	6,223.3389

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5449	50.2582	32.6798	0.0637	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,174.6305	6,174.6305	1.9483	0.0000	6,223.3389
2021	48.0956	17.8864	17.0902	0.0291	0.1257	0.9606	1.0863	0.0340	0.9031	0.9371	0.0000	2,774.3572	2,774.3572	0.7178	0.0000	2,790.0159
Maximum	48.0956	50.2582	32.6798	0.0637	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,174.6305	6,174.6305	1.9483	0.0000	6,223.3389

[illegible]

Cheney-Wilson Subdivision Project - Colusa County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293
Energy	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Mobile	0.7214	1.7961	7.7625	0.0226	1.9504	0.0157	1.9661	0.5186	0.0146	0.5332		2,260.5906	2,260.5906	0.0878		2,262.7851
Total	54.4383	3.0691	74.8988	0.1405	1.9504	9.0550	11.0054	0.5186	9.0539	9.5724	944.2388	2,948.1646	3,892.4034	0.9695	0.0795	3,940.3403

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293
Energy	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Mobile	0.7214	1.7961	7.7625	0.0226	1.9504	0.0157	1.9661	0.5186	0.0146	0.5332		2,260.5906	2,260.5906	0.0878		2,262.7851
Total	54.4383	3.0691	74.8988	0.1405	1.9504	9.0550	11.0054	0.5186	9.0539	9.5724	944.2388	2,948.1646	3,892.4034	0.9695	0.0795	3,940.3403

Cheney-Wilson Subdivision Project - Colusa County, Summer

	ROG	NOx	CO	SO2	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	5/1/2020	5/14/2020	5	10	
2	Grading	Grading	5/15/2020	6/25/2020	5	30	
3	Building Construction	Building Construction	6/26/2020	8/19/2021	5	300	
4	Paving	Paving	8/20/2021	9/16/2021	5	20	
5	Architectural Coating	Architectural Coating	9/17/2021	10/14/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 123,930; Residential Outdoor: 41,310; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Cheney-Wilson Subdivision Project - Colusa County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Cheney-Wilson Subdivision Project - Colusa County, Summer

3.1 Mitigation Measures Construction**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0854	0.0546	0.6494	1.5300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		151.8887	151.8887	5.3300e-003		152.0218
Total	0.0854	0.0546	0.6494	1.5300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		151.8887	151.8887	5.3300e-003		152.0218

Cheney-Wilson Subdivision Project - Colusa County, Summer

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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

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	lb/day										lb/day					
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
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
Worker	0.0854	0.0546	0.6494	1.5300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		151.8887	151.8887	5.3300e-003		152.0218
Total	0.0854	0.0546	0.6494	1.5300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		151.8887	151.8887	5.3300e-003		152.0218

Cheney-Wilson Subdivision Project - Colusa County, Summer

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.865 3	6,005.865 3	1.9424		6,054.425 7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0948	0.0606	0.7215	1.7000e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		168.7652	168.7652	5.9200e-003		168.9131
Total	0.0948	0.0606	0.7215	1.7000e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		168.7652	168.7652	5.9200e-003		168.9131

Cheney-Wilson Subdivision Project - Colusa County, Summer

3.3 Grading - 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	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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	lb/day										lb/day					
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
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
Worker	0.0948	0.0606	0.7215	1.7000e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		168.7652	168.7652	5.9200e-003		168.9131
Total	0.0948	0.0606	0.7215	1.7000e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		168.7652	168.7652	5.9200e-003		168.9131

Cheney-Wilson Subdivision Project - Colusa County, Summer

3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0208	0.4605	0.1411	1.1900e-003	0.0271	2.4700e-003	0.0296	7.8100e-003	2.3600e-003	0.0102		124.1613	124.1613	7.3200e-003		124.3442
Worker	0.0569	0.0364	0.4329	1.0200e-003	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		101.2591	101.2591	3.5500e-003		101.3479
Total	0.0777	0.4968	0.5740	2.2100e-003	0.1257	3.1300e-003	0.1288	0.0340	2.9700e-003	0.0369		225.4204	225.4204	0.0109		225.6920

Cheney-Wilson Subdivision Project - Colusa County, Summer

3.4 Building Construction - 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	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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	lb/day										lb/day					
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
Vendor	0.0208	0.4605	0.1411	1.1900e-003	0.0271	2.4700e-003	0.0296	7.8100e-003	2.3600e-003	0.0102		124.1613	124.1613	7.3200e-003		124.3442
Worker	0.0569	0.0364	0.4329	1.0200e-003	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		101.2591	101.2591	3.5500e-003		101.3479
Total	0.0777	0.4968	0.5740	2.2100e-003	0.1257	3.1300e-003	0.1288	0.0340	2.9700e-003	0.0369		225.4204	225.4204	0.0109		225.6920

Cheney-Wilson Subdivision Project - Colusa County, Summer

3.4 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0177	0.4219	0.1227	1.1800e-003	0.0271	1.3200e-003	0.0285	7.8100e-003	1.2600e-003	9.0800e-003		123.2458	123.2458	7.1900e-003		123.4256
Worker	0.0523	0.0323	0.3923	9.8000e-004	0.0986	6.4000e-004	0.0992	0.0262	5.9000e-004	0.0267		97.7475	97.7475	3.1400e-003		97.8261
Total	0.0700	0.4543	0.5150	2.1600e-003	0.1257	1.9600e-003	0.1277	0.0340	1.8500e-003	0.0358		220.9933	220.9933	0.0103		221.2516

Cheney-Wilson Subdivision Project - Colusa County, Summer

3.4 Building Construction - 2021**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	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	lb/day										lb/day					
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
Vendor	0.0177	0.4219	0.1227	1.1800e-003	0.0271	1.3200e-003	0.0285	7.8100e-003	1.2600e-003	9.0800e-003		123.2458	123.2458	7.1900e-003		123.4256
Worker	0.0523	0.0323	0.3923	9.8000e-004	0.0986	6.4000e-004	0.0992	0.0262	5.9000e-004	0.0267		97.7475	97.7475	3.1400e-003		97.8261
Total	0.0700	0.4543	0.5150	2.1600e-003	0.1257	1.9600e-003	0.1277	0.0340	1.8500e-003	0.0358		220.9933	220.9933	0.0103		221.2516

Cheney-Wilson Subdivision Project - Colusa County, Summer

3.5 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0654	0.0404	0.4904	1.2300e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		122.1843	122.1843	3.9300e-003		122.2826
Total	0.0654	0.0404	0.4904	1.2300e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		122.1843	122.1843	3.9300e-003		122.2826

Cheney-Wilson Subdivision Project - Colusa County, Summer

3.5 Paving - 2021**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	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	lb/day										lb/day					
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
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
Worker	0.0654	0.0404	0.4904	1.2300e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		122.1843	122.1843	3.9300e-003		122.2826
Total	0.0654	0.0404	0.4904	1.2300e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		122.1843	122.1843	3.9300e-003		122.2826

Cheney-Wilson Subdivision Project - Colusa County, Summer

3.6 Architectural Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	47.8680					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	48.0869	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	8.7200e-003	5.3900e-003	0.0654	1.6000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		16.2912	16.2912	5.2000e-004		16.3044
Total	8.7200e-003	5.3900e-003	0.0654	1.6000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		16.2912	16.2912	5.2000e-004		16.3044

Cheney-Wilson Subdivision Project - Colusa County, Summer

3.6 Architectural Coating - 2021**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	lb/day										lb/day					
Archit. Coating	47.8680					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	48.0869	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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	lb/day										lb/day					
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
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
Worker	8.7200e-003	5.3900e-003	0.0654	1.6000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		16.2912	16.2912	5.2000e-004		16.3044
Total	8.7200e-003	5.3900e-003	0.0654	1.6000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		16.2912	16.2912	5.2000e-004		16.3044

4.0 Operational Detail - Mobile

Cheney-Wilson Subdivision Project - Colusa County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7214	1.7961	7.7625	0.0226	1.9504	0.0157	1.9661	0.5186	0.0146	0.5332		2,260.5906	2,260.5906	0.0878		2,262.7851
Unmitigated	0.7214	1.7961	7.7625	0.0226	1.9504	0.0157	1.9661	0.5186	0.0146	0.5332		2,260.5906	2,260.5906	0.0878		2,262.7851

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	320.96	324.36	290.70	907,685	907,685
Total	320.96	324.36	290.70	907,685	907,685

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.623938	0.036131	0.183149	0.127934	0.000000	0.000000	0.000000	0.020000	0.000936	0.001568	0.004917	0.000552	0.000876

Cheney-Wilson Subdivision Project - Colusa County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
NaturalGas Unmitigated	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

Cheney-Wilson Subdivision Project - Colusa County, Summer

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2435.45	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Total		0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2.43545	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Total		0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

6.0 Area Detail**6.1 Mitigation Measures Area**

Cheney-Wilson Subdivision Project - Colusa County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293
Unmitigated	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	52.0334	1.0162	64.2296	0.1164		9.0056	9.0056		9.0056	9.0056	944.2388	396.0000	1,340.2388	0.8714	0.0743	1,384.1562
Landscaping	0.0852	0.0325	2.8111	1.5000e-004		0.0155	0.0155		0.0155	0.0155		5.0508	5.0508	4.8900e-003		5.1731
Total	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293

Cheney-Wilson Subdivision Project - Colusa County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	52.0334	1.0162	64.2296	0.1164		9.0056	9.0056		9.0056	9.0056	944.2388	396.0000	1,340.2388	0.8714	0.0743	1,384.1562
Landscaping	0.0852	0.0325	2.8111	1.5000e-004		0.0155	0.0155		0.0155	0.0155		5.0508	5.0508	4.8900e-003		5.1731
Total	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

Cheney-Wilson Subdivision Project - Colusa County, Summer

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

CalEEMod Model Output File
Without Mitigation Measures
Daily Winter Period

Cheney-Wilson Subdivision Project - Colusa County, Winter

Cheney-Wilson Subdivision Project
Colusa County, Winter**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	34.00	Dwelling Unit	11.04	61,200.00	97

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	3			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Cheney-Wilson Subdivision Project - Colusa County, Winter

Project Characteristics - CO2 Intentsity Factor per PG&E 2015.

Land Use - Per Musallam pers. comm., 35 units including 1 existing unit. 34 net new units.

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - VOC content per Colusa County APCD Rule 2.26 - Architectural Coatings. 125 g/L average of flat and nonflat coatings.

Vehicle Trips - ITE Trip Generation Manual 10th edition: 9.44 for weekdays, 9.54 for Saturday, 8.55 for Sunday.

Woodstoves -

Area Coating - VOC content per Colusa County APCD Rule 2.26 - Architectural Coatings. Use 125 g/L average of flat and nonflat.

Energy Use -

Fleet Mix - 10.7% heavy-duty trucks too high for SFDUs. Set HHD to 2%. Move 8.7% to LDA. 62.3938% new SFDU value.

Cheney-Wilson Subdivision Project - Colusa County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	125.00
tblArchitecturalCoating	EF_Parking	250.00	125.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	125.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	125
tblAreaCoating	Area_EF_Nonresidential_Interior	250	125
tblAreaCoating	Area_EF_Parking	250	125
tblAreaCoating	Area_EF_Residential_Exterior	250	125
tblAreaCoating	Area_EF_Residential_Interior	250	125
tblFleetMix	HHD	0.07	0.02
tblFleetMix	LDA	0.54	0.62
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	6.6800e-003	0.00
tblFleetMix	MHD	7.9660e-003	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

Cheney-Wilson Subdivision Project - Colusa County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5357	50.2714	32.5721	0.0635	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,152.8497	6,152.8497	1.9476	0.0000	6,201.5386
2021	48.0947	17.9013	17.0511	0.0289	0.1257	0.9606	1.0863	0.0340	0.9032	0.9371	0.0000	2,757.5541	2,757.5541	0.7173	0.0000	2,773.2243
Maximum	48.0947	50.2714	32.5721	0.0635	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,152.8497	6,152.8497	1.9476	0.0000	6,201.5386

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5357	50.2714	32.5721	0.0635	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,152.8496	6,152.8496	1.9476	0.0000	6,201.5386
2021	48.0947	17.9013	17.0511	0.0289	0.1257	0.9606	1.0863	0.0340	0.9032	0.9371	0.0000	2,757.5541	2,757.5541	0.7173	0.0000	2,773.2243
Maximum	48.0947	50.2714	32.5721	0.0635	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,152.8496	6,152.8496	1.9476	0.0000	6,201.5386

[illegible]

Cheney-Wilson Subdivision Project - Colusa County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293
Energy	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Mobile	0.5186	1.9436	6.9853	0.0199	1.9504	0.0159	1.9663	0.5186	0.0148	0.5334		1,997.8111	1,997.8111	0.0855		1,999.9488
Total	54.2354	3.2167	74.1215	0.1379	1.9504	9.0551	11.0056	0.5186	9.0540	9.5726	944.2388	2,685.3850	3,629.6239	0.9673	0.0795	3,677.5039

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293
Energy	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Mobile	0.5186	1.9436	6.9853	0.0199	1.9504	0.0159	1.9663	0.5186	0.0148	0.5334		1,997.8111	1,997.8111	0.0855		1,999.9488
Total	54.2354	3.2167	74.1215	0.1379	1.9504	9.0551	11.0056	0.5186	9.0540	9.5726	944.2388	2,685.3850	3,629.6239	0.9673	0.0795	3,677.5039

Cheney-Wilson Subdivision Project - Colusa County, Winter

	ROG	NOx	CO	SO2	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	5/1/2020	5/14/2020	5	10	
2	Grading	Grading	5/15/2020	6/25/2020	5	30	
3	Building Construction	Building Construction	6/26/2020	8/19/2021	5	300	
4	Paving	Paving	8/20/2021	9/16/2021	5	20	
5	Architectural Coating	Architectural Coating	9/17/2021	10/14/2021	5	20	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 75****Acres of Paving: 0****Residential Indoor: 123,930; Residential Outdoor: 41,310; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Cheney-Wilson Subdivision Project - Colusa County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Cheney-Wilson Subdivision Project - Colusa County, Winter

3.1 Mitigation Measures Construction**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0771	0.0665	0.5524	1.3300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		132.2860	132.2860	4.6300e-003		132.4016
Total	0.0771	0.0665	0.5524	1.3300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		132.2860	132.2860	4.6300e-003		132.4016

Cheney-Wilson Subdivision Project - Colusa County, Winter

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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

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	lb/day										lb/day					
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
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
Worker	0.0771	0.0665	0.5524	1.3300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		132.2860	132.2860	4.6300e-003		132.4016
Total	0.0771	0.0665	0.5524	1.3300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		132.2860	132.2860	4.6300e-003		132.4016

Cheney-Wilson Subdivision Project - Colusa County, Winter

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.865 3	6,005.865 3	1.9424		6,054.425 7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0856	0.0739	0.6138	1.4800e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		146.9844	146.9844	5.1400e-003		147.1129
Total	0.0856	0.0739	0.6138	1.4800e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		146.9844	146.9844	5.1400e-003		147.1129

Cheney-Wilson Subdivision Project - Colusa County, Winter

3.3 Grading - 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	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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	lb/day										lb/day					
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
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
Worker	0.0856	0.0739	0.6138	1.4800e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		146.9844	146.9844	5.1400e-003		147.1129
Total	0.0856	0.0739	0.6138	1.4800e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		146.9844	146.9844	5.1400e-003		147.1129

Cheney-Wilson Subdivision Project - Colusa County, Winter

3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0219	0.4708	0.1635	1.1500e-003	0.0271	2.5300e-003	0.0297	7.8100e-003	2.4200e-003	0.0102		119.9769	119.9769	8.1800e-003		120.1815
Worker	0.0514	0.0443	0.3683	8.9000e-004	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		88.1906	88.1906	3.0800e-003		88.2677
Total	0.0732	0.5151	0.5318	2.0400e-003	0.1257	3.1900e-003	0.1289	0.0340	3.0300e-003	0.0370		208.1675	208.1675	0.0113		208.4492

Cheney-Wilson Subdivision Project - Colusa County, Winter

3.4 Building Construction - 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	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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	lb/day										lb/day					
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
Vendor	0.0219	0.4708	0.1635	1.1500e-003	0.0271	2.5300e-003	0.0297	7.8100e-003	2.4200e-003	0.0102		119.9769	119.9769	8.1800e-003		120.1815
Worker	0.0514	0.0443	0.3683	8.9000e-004	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		88.1906	88.1906	3.0800e-003		88.2677
Total	0.0732	0.5151	0.5318	2.0400e-003	0.1257	3.1900e-003	0.1289	0.0340	3.0300e-003	0.0370		208.1675	208.1675	0.0113		208.4492

Cheney-Wilson Subdivision Project - Colusa County, Winter

3.4 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0187	0.4298	0.1437	1.1400e-003	0.0271	1.3800e-003	0.0285	7.8100e-003	1.3200e-003	9.1300e-003		119.0551	119.0551	8.0700e-003		119.2568
Worker	0.0473	0.0394	0.3323	8.6000e-004	0.0986	6.4000e-004	0.0992	0.0262	5.9000e-004	0.0267		85.1351	85.1351	2.7300e-003		85.2033
Total	0.0660	0.4692	0.4759	2.0000e-003	0.1257	2.0200e-003	0.1277	0.0340	1.9100e-003	0.0359		204.1902	204.1902	0.0108		204.4600

Cheney-Wilson Subdivision Project - Colusa County, Winter

3.4 Building Construction - 2021**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	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	lb/day										lb/day					
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
Vendor	0.0187	0.4298	0.1437	1.1400e-003	0.0271	1.3800e-003	0.0285	7.8100e-003	1.3200e-003	9.1300e-003		119.0551	119.0551	8.0700e-003		119.2568
Worker	0.0473	0.0394	0.3323	8.6000e-004	0.0986	6.4000e-004	0.0992	0.0262	5.9000e-004	0.0267		85.1351	85.1351	2.7300e-003		85.2033
Total	0.0660	0.4692	0.4759	2.0000e-003	0.1257	2.0200e-003	0.1277	0.0340	1.9100e-003	0.0359		204.1902	204.1902	0.0108		204.4600

Cheney-Wilson Subdivision Project - Colusa County, Winter

3.5 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0591	0.0492	0.4153	1.0700e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		106.4189	106.4189	3.4100e-003		106.5041
Total	0.0591	0.0492	0.4153	1.0700e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		106.4189	106.4189	3.4100e-003		106.5041

Cheney-Wilson Subdivision Project - Colusa County, Winter

3.5 Paving - 2021**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	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	lb/day										lb/day					
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
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
Worker	0.0591	0.0492	0.4153	1.0700e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		106.4189	106.4189	3.4100e-003		106.5041
Total	0.0591	0.0492	0.4153	1.0700e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		106.4189	106.4189	3.4100e-003		106.5041

Cheney-Wilson Subdivision Project - Colusa County, Winter

3.6 Architectural Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	47.8680					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	48.0869	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	7.8800e-003	6.5600e-003	0.0554	1.4000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		14.1892	14.1892	4.5000e-004		14.2006
Total	7.8800e-003	6.5600e-003	0.0554	1.4000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		14.1892	14.1892	4.5000e-004		14.2006

Cheney-Wilson Subdivision Project - Colusa County, Winter

3.6 Architectural Coating - 2021**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	lb/day										lb/day					
Archit. Coating	47.8680					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	48.0869	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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	lb/day										lb/day					
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
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
Worker	7.8800e-003	6.5600e-003	0.0554	1.4000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		14.1892	14.1892	4.5000e-004		14.2006
Total	7.8800e-003	6.5600e-003	0.0554	1.4000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		14.1892	14.1892	4.5000e-004		14.2006

4.0 Operational Detail - Mobile

Cheney-Wilson Subdivision Project - Colusa County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5186	1.9436	6.9853	0.0199	1.9504	0.0159	1.9663	0.5186	0.0148	0.5334		1,997.811 1	1,997.811 1	0.0855		1,999.948 8
Unmitigated	0.5186	1.9436	6.9853	0.0199	1.9504	0.0159	1.9663	0.5186	0.0148	0.5334		1,997.811 1	1,997.811 1	0.0855		1,999.948 8

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	320.96	324.36	290.70	907,685	907,685
Total	320.96	324.36	290.70	907,685	907,685

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.623938	0.036131	0.183149	0.127934	0.000000	0.000000	0.000000	0.020000	0.000936	0.001568	0.004917	0.000552	0.000876

Cheney-Wilson Subdivision Project - Colusa County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
NaturalGas Unmitigated	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

Cheney-Wilson Subdivision Project - Colusa County, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2435.45	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Total		0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2.43545	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Total		0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

6.0 Area Detail**6.1 Mitigation Measures Area**

Cheney-Wilson Subdivision Project - Colusa County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293
Unmitigated	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	52.0334	1.0162	64.2296	0.1164		9.0056	9.0056		9.0056	9.0056	944.2388	396.0000	1,340.2388	0.8714	0.0743	1,384.1562
Landscaping	0.0852	0.0325	2.8111	1.5000e-004		0.0155	0.0155		0.0155	0.0155		5.0508	5.0508	4.8900e-003		5.1731
Total	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293

Cheney-Wilson Subdivision Project - Colusa County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	52.0334	1.0162	64.2296	0.1164		9.0056	9.0056		9.0056	9.0056	944.2388	396.0000	1,340.2388	0.8714	0.0743	1,384.1562
Landscaping	0.0852	0.0325	2.8111	1.5000e-004		0.0155	0.0155		0.0155	0.0155		5.0508	5.0508	4.8900e-003		5.1731
Total	53.6906	1.0486	67.0408	0.1165		9.0211	9.0211		9.0211	9.0211	944.2388	401.0508	1,345.2896	0.8763	0.0743	1,389.3293

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

Cheney-Wilson Subdivision Project - Colusa County, Winter

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

CalEEMod Model Output File
With Mitigation Measures
Annual Period

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Annual

Cheney-Wilson Subdivision Project - Mitigated

Colusa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	34.00	Dwelling Unit	11.04	61,200.00	97

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	3			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Annual

Project Characteristics - CO2 Intensity Factor per PG&E 2015.

Land Use - Per Musallam pers. comm., 35 units including 1 existing unit. 34 net new units.

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Mitigation measure for Architectural Coatings: Use low VOC coatings to achieve a project-wide average of 60 g/L.

Vehicle Trips - ITE Trip Generation Manual 10th edition: 9.44 for weekdays, 9.54 for Saturday, 8.55 for Sunday.

Woodstoves - Limit the number of wood-burning fireplaces to 5 units in the project. 25 units will have natural gas-burning fireplaces. 3 units will not have fireplaces.

Area Coating - VOC content per Colusa County APCD Rule 2.26 - Architectural Coatings. Use 125 g/L average of flat and nonflat.

Energy Use -

Fleet Mix - 10.7% heavy-duty trucks too high for SFDUs. Set HHD to 2%. Move 8.7% to LDA. 62.3938% new SFDU value.

Construction Off-road Equipment Mitigation - Limit the use of construction equipment during site preparation and grading phases to equipment meeting Tier 4 emissions standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	60.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	60.00
tblArchitecturalCoating	EF_Parking	250.00	60.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	60.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	60.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	125
tblAreaCoating	Area_EF_Nonresidential_Interior	250	125
tblAreaCoating	Area_EF_Parking	250	125
tblAreaCoating	Area_EF_Residential_Exterior	250	125

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tblAreaCoating	Area_EF_Residential_Interior	250	125
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblFireplaces	NumberGas	18.70	26.00
tblFireplaces	NumberNoFireplace	3.40	3.00
tblFireplaces	NumberWood	11.90	5.00
tblFleetMix	HHD	0.07	0.02
tblFleetMix	LDA	0.54	0.62
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	6.6800e-003	0.00
tblFleetMix	MHD	7.9660e-003	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

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2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2365	2.2959	1.7709	3.1100e-003	0.2317	0.1192	0.3510	0.1067	0.1112	0.2179	0.0000	270.5431	270.5431	0.0707	0.0000	272.3114
2021	0.4071	1.6215	1.5749	2.6600e-003	0.0114	0.0870	0.0984	3.0800e-003	0.0817	0.0848	0.0000	230.4863	230.4863	0.0536	0.0000	231.8254
Maximum	0.4071	2.2959	1.7709	3.1100e-003	0.2317	0.1192	0.3510	0.1067	0.1112	0.2179	0.0000	270.5431	270.5431	0.0707	0.0000	272.3114

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1327	1.0466	1.7943	3.1100e-003	0.2317	0.0548	0.2865	0.1067	0.0522	0.1588	0.0000	270.5428	270.5428	0.0707	0.0000	272.3111
2021	0.3748	1.2466	1.5926	2.6600e-003	0.0114	0.0639	0.0753	3.0800e-003	0.0605	0.0636	0.0000	230.4860	230.4860	0.0536	0.0000	231.8251
Maximum	0.3748	1.2466	1.7943	3.1100e-003	0.2317	0.0639	0.2865	0.1067	0.0605	0.1588	0.0000	270.5428	270.5428	0.0707	0.0000	272.3111

	ROG	NOx	CO	SO2	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	21.15	41.46	-1.23	0.00	0.00	42.46	19.48	0.00	41.60	26.52	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2020	7-31-2020	1.3365	0.2864
2	8-1-2020	10-31-2020	0.7191	0.5369
3	11-1-2020	1-31-2021	0.6970	0.5215
4	2-1-2021	4-30-2021	0.6314	0.4745
5	5-1-2021	7-31-2021	0.6525	0.4903
6	8-1-2021	9-30-2021	0.4012	0.3677
		Highest	1.3365	0.5369

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	1.2125	0.0357	1.5472	2.6900e-003		0.1873	0.1873		0.1873	0.1873	18.7415	20.8913	39.6328	0.0329	1.4200e-003	40.8798
Energy	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	86.6188	86.6188	4.8300e-003	1.6800e-003	87.2403
Mobile	0.0988	0.3326	1.2032	3.6500e-003	0.3356	2.8000e-003	0.3384	0.0895	2.6100e-003	0.0921	0.0000	332.4785	332.4785	0.0135	0.0000	332.8155
Waste						0.0000	0.0000		0.0000	0.0000	7.0884	0.0000	7.0884	0.4189	0.0000	17.5613
Water						0.0000	0.0000		0.0000	0.0000	0.7028	2.2197	2.9225	0.0724	1.7500e-003	5.2543
Total	1.3161	0.4093	2.7677	6.6000e-003	0.3356	0.1934	0.5290	0.0895	0.1932	0.2827	26.5327	442.2084	468.7411	0.5426	4.8500e-003	483.7511

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2125	0.0357	1.5472	2.6900e-003		0.1873	0.1873		0.1873	0.1873	18.7415	20.8913	39.6328	0.0329	1.4200e-003	40.8798
Energy	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	86.6188	86.6188	4.8300e-003	1.6800e-003	87.2403
Mobile	0.0988	0.3326	1.2032	3.6500e-003	0.3356	2.8000e-003	0.3384	0.0895	2.6100e-003	0.0921	0.0000	332.4785	332.4785	0.0135	0.0000	332.8155
Waste						0.0000	0.0000		0.0000	0.0000	7.0884	0.0000	7.0884	0.4189	0.0000	17.5613
Water						0.0000	0.0000		0.0000	0.0000	0.7028	2.2197	2.9225	0.0724	1.7500e-003	5.2543
Total	1.3161	0.4093	2.7677	6.6000e-003	0.3356	0.1934	0.5290	0.0895	0.1932	0.2827	26.5327	442.2084	468.7411	0.5426	4.8500e-003	483.7511

	ROG	NOx	CO	SO2	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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2020	5/14/2020	5	10	
2	Grading	Grading	5/15/2020	6/25/2020	5	30	
3	Building Construction	Building Construction	6/26/2020	8/19/2021	5	300	
4	Paving	Paving	8/20/2021	9/16/2021	5	20	
5	Architectural Coating	Architectural Coating	9/17/2021	10/14/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 123,930; Residential Outdoor: 41,310; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.2 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.6000e-004	3.0000e-004	2.7400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6202	0.6202	2.0000e-005	0.0000	0.6207
Total	3.6000e-004	3.0000e-004	2.7400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6202	0.6202	2.0000e-005	0.0000	0.6207

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	2.3300e-003	0.0101	0.1043	1.9000e-004	0.0903	3.1000e-004	0.0906	0.0497	3.1000e-004	0.0500	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.2 Site Preparation - 2020**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	3.6000e-004	3.0000e-004	2.7400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6202	0.6202	2.0000e-005	0.0000	0.6207
Total	3.6000e-004	3.0000e-004	2.7400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6202	0.6202	2.0000e-005	0.0000	0.6207

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872
Total	0.0668	0.7530	0.4794	9.3000e-004	0.1301	0.0326	0.1627	0.0540	0.0300	0.0840	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872

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3.3 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.2100e-003	9.9000e-004	9.1300e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0673	2.0673	7.0000e-005	0.0000	2.0691
Total	1.2100e-003	9.9000e-004	9.1300e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0673	2.0673	7.0000e-005	0.0000	2.0691

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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.0495	0.4950	9.3000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871
Total	0.0114	0.0495	0.4950	9.3000e-004	0.1301	1.5200e-003	0.1316	0.0540	1.5200e-003	0.0555	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871

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3.3 Grading - 2020**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	1.2100e-003	9.9000e-004	9.1300e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0673	2.0673	7.0000e-005	0.0000	2.0691
Total	1.2100e-003	9.9000e-004	9.1300e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0673	2.0673	7.0000e-005	0.0000	2.0691

3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1431	1.2951	1.1373	1.8200e-003		0.0754	0.0754		0.0709	0.0709	0.0000	156.3367	156.3367	0.0381	0.0000	157.2903
Total	0.1431	1.2951	1.1373	1.8200e-003		0.0754	0.0754		0.0709	0.0709	0.0000	156.3367	156.3367	0.0381	0.0000	157.2903

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3.4 Building Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4200e-003	0.0318	0.0101	8.0000e-005	1.7800e-003	1.7000e-004	1.9500e-003	5.1000e-004	1.6000e-004	6.8000e-004	0.0000	7.4953	7.4953	4.7000e-004	0.0000	7.5071
Worker	3.2800e-003	2.6800e-003	0.0246	6.0000e-005	6.4300e-003	4.0000e-005	6.4800e-003	1.7100e-003	4.0000e-005	1.7500e-003	0.0000	5.5817	5.5817	1.9000e-004	0.0000	5.5865
Total	4.7000e-003	0.0345	0.0348	1.4000e-004	8.2100e-003	2.1000e-004	8.4300e-003	2.2200e-003	2.0000e-004	2.4300e-003	0.0000	13.0771	13.0771	6.6000e-004	0.0000	13.0936

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1127	0.9512	1.1483	1.8200e-003		0.0527	0.0527		0.0501	0.0501	0.0000	156.3366	156.3366	0.0381	0.0000	157.2901
Total	0.1127	0.9512	1.1483	1.8200e-003		0.0527	0.0527		0.0501	0.0501	0.0000	156.3366	156.3366	0.0381	0.0000	157.2901

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3.4 Building Construction - 2020**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	1.4200e-003	0.0318	0.0101	8.0000e-005	1.7800e-003	1.7000e-004	1.9500e-003	5.1000e-004	1.6000e-004	6.8000e-004	0.0000	7.4953	7.4953	4.7000e-004	0.0000	7.5071
Worker	3.2800e-003	2.6800e-003	0.0246	6.0000e-005	6.4300e-003	4.0000e-005	6.4800e-003	1.7100e-003	4.0000e-005	1.7500e-003	0.0000	5.5817	5.5817	1.9000e-004	0.0000	5.5865
Total	4.7000e-003	0.0345	0.0348	1.4000e-004	8.2100e-003	2.1000e-004	8.4300e-003	2.2200e-003	2.0000e-004	2.4300e-003	0.0000	13.0771	13.0771	6.6000e-004	0.0000	13.0936

3.4 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1568	1.4382	1.3675	2.2200e-003		0.0791	0.0791		0.0744	0.0744	0.0000	191.1008	191.1008	0.0461	0.0000	192.2534
Total	0.1568	1.4382	1.3675	2.2200e-003		0.0791	0.0791		0.0744	0.0744	0.0000	191.1008	191.1008	0.0461	0.0000	192.2534

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3.4 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4800e-003	0.0355	0.0108	1.0000e-004	2.1800e-003	1.1000e-004	2.2900e-003	6.3000e-004	1.1000e-004	7.4000e-004	0.0000	9.0923	9.0923	5.7000e-004	0.0000	9.1064
Worker	3.6900e-003	2.9100e-003	0.0272	7.0000e-005	7.8600e-003	5.0000e-005	7.9100e-003	2.0900e-003	5.0000e-005	2.1400e-003	0.0000	6.5857	6.5857	2.1000e-004	0.0000	6.5909
Total	5.1700e-003	0.0384	0.0381	1.7000e-004	0.0100	1.6000e-004	0.0102	2.7200e-003	1.6000e-004	2.8800e-003	0.0000	15.6779	15.6779	7.8000e-004	0.0000	15.6973

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1245	1.0632	1.3852	2.2200e-003		0.0560	0.0560		0.0532	0.0532	0.0000	191.1005	191.1005	0.0461	0.0000	192.2531
Total	0.1245	1.0632	1.3852	2.2200e-003		0.0560	0.0560		0.0532	0.0532	0.0000	191.1005	191.1005	0.0461	0.0000	192.2531

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3.4 Building Construction - 2021**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	1.4800e-003	0.0355	0.0108	1.0000e-004	2.1800e-003	1.1000e-004	2.2900e-003	6.3000e-004	1.1000e-004	7.4000e-004	0.0000	9.0923	9.0923	5.7000e-004	0.0000	9.1064
Worker	3.6900e-003	2.9100e-003	0.0272	7.0000e-005	7.8600e-003	5.0000e-005	7.9100e-003	2.0900e-003	5.0000e-005	2.1400e-003	0.0000	6.5857	6.5857	2.1000e-004	0.0000	6.5909
Total	5.1700e-003	0.0384	0.0381	1.7000e-004	0.0100	1.6000e-004	0.0102	2.7200e-003	1.6000e-004	2.8800e-003	0.0000	15.6779	15.6779	7.8000e-004	0.0000	15.6973

3.5 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

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3.5 Paving - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	5.6000e-004	4.4000e-004	4.1300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9978	0.9978	3.0000e-005	0.0000	0.9986
Total	5.6000e-004	4.4000e-004	4.1300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9978	0.9978	3.0000e-005	0.0000	0.9986

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

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3.5 Paving - 2021**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	5.6000e-004	4.4000e-004	4.1300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9978	0.9978	3.0000e-005	0.0000	0.9986
Total	5.6000e-004	4.4000e-004	4.1300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9978	0.9978	3.0000e-005	0.0000	0.9986

3.6 Architectural Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	0.2320	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

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3.6 Architectural Coating - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	7.0000e-005	6.0000e-005	5.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1330	0.1330	0.0000	0.0000	0.1332
Total	7.0000e-005	6.0000e-005	5.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1330	0.1330	0.0000	0.0000	0.1332

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	0.2320	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

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3.6 Architectural Coating - 2021**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	7.0000e-005	6.0000e-005	5.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1330	0.1330	0.0000	0.0000	0.1332
Total	7.0000e-005	6.0000e-005	5.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1330	0.1330	0.0000	0.0000	0.1332

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0988	0.3326	1.2032	3.6500e-003	0.3356	2.8000e-003	0.3384	0.0895	2.6100e-003	0.0921	0.0000	332.4785	332.4785	0.0135	0.0000	332.8155
Unmitigated	0.0988	0.3326	1.2032	3.6500e-003	0.3356	2.8000e-003	0.3384	0.0895	2.6100e-003	0.0921	0.0000	332.4785	332.4785	0.0135	0.0000	332.8155

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	320.96	324.36	290.70	907,685	907,685
Total	320.96	324.36	290.70	907,685	907,685

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.623938	0.036131	0.183149	0.127934	0.000000	0.000000	0.000000	0.020000	0.000936	0.001568	0.004917	0.000552	0.000876

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.1817	39.1817	3.9200e-003	8.1000e-004	39.5213
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.1817	39.1817	3.9200e-003	8.1000e-004	39.5213
NaturalGas Mitigated	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190
NaturalGas Unmitigated	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190

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					
Single Family Housing	888938	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190
Total		4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	888938	4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190
Total		4.7900e-003	0.0410	0.0174	2.6000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	47.4371	47.4371	9.1000e-004	8.7000e-004	47.7190

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	297865	39.1817	3.9200e-003	8.1000e-004	39.5213
Total		39.1817	3.9200e-003	8.1000e-004	39.5213

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	297865	39.1817	3.9200e-003	8.1000e-004	39.5213
Total		39.1817	3.9200e-003	8.1000e-004	39.5213

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2125	0.0357	1.5472	2.6900e-003		0.1873	0.1873		0.1873	0.1873	18.7415	20.8913	39.6328	0.0329	1.4200e-003	40.8798
Unmitigated	1.2125	0.0357	1.5472	2.6900e-003		0.1873	0.1873		0.1873	0.1873	18.7415	20.8913	39.6328	0.0329	1.4200e-003	40.8798

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6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0479					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.9179	0.0328	1.2942	2.6800e-003		0.1859	0.1859		0.1859	0.1859	18.7415	20.4789	39.2204	0.0325	1.4200e-003	40.4574
Landscaping	7.6700e-003	2.9200e-003	0.2530	1.0000e-005		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	0.4124	0.4124	4.0000e-004	0.0000	0.4224
Total	1.2125	0.0357	1.5472	2.6900e-003		0.1873	0.1873		0.1873	0.1873	18.7415	20.8913	39.6328	0.0329	1.4200e-003	40.8798

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0479					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.9179	0.0328	1.2942	2.6800e-003		0.1859	0.1859		0.1859	0.1859	18.7415	20.4789	39.2204	0.0325	1.4200e-003	40.4574
Landscaping	7.6700e-003	2.9200e-003	0.2530	1.0000e-005		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	0.4124	0.4124	4.0000e-004	0.0000	0.4224
Total	1.2125	0.0357	1.5472	2.6900e-003		0.1873	0.1873		0.1873	0.1873	18.7415	20.8913	39.6328	0.0329	1.4200e-003	40.8798

7.0 Water Detail**7.1 Mitigation Measures Water**

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.9225	0.0724	1.7500e-003	5.2543
Unmitigated	2.9225	0.0724	1.7500e-003	5.2543

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.21524 / 1.39656	2.9225	0.0724	1.7500e-003	5.2543
Total		2.9225	0.0724	1.7500e-003	5.2543

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.21524 / 1.39656	2.9225	0.0724	1.7500e-003	5.2543
Total		2.9225	0.0724	1.7500e-003	5.2543

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.0884	0.4189	0.0000	17.5613
Unmitigated	7.0884	0.4189	0.0000	17.5613

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	34.92	7.0884	0.4189	0.0000	17.5613
Total		7.0884	0.4189	0.0000	17.5613

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	34.92	7.0884	0.4189	0.0000	17.5613
Total		7.0884	0.4189	0.0000	17.5613

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

CalEEMod Model Output File
With Mitigation Measures
Daily Summer Period

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

Cheney-Wilson Subdivision Project - Mitigated
Colusa County, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	34.00	Dwelling Unit	11.04	61,200.00	97

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	3			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

Project Characteristics - CO2 Intensity Factor per PG&E 2015.

Land Use - Per Musallam pers. comm., 35 units including 1 existing unit. 34 net new units.

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Mitigation measure for Architectural Coatings: Use low VOC coatings to achieve a project-wide average of 60 g/L.

Vehicle Trips - ITE Trip Generation Manual 10th edition: 9.44 for weekdays, 9.54 for Saturday, 8.55 for Sunday.

Woodstoves - Limit the number of wood-burning fireplaces to 5 units in the project. 25 units will have natural gas-burning fireplaces. 3 units will not have fireplaces.

Area Coating - VOC content per Colusa County APCD Rule 2.26 - Architectural Coatings. Use 125 g/L average of flat and nonflat.

Energy Use -

Fleet Mix - 10.7% heavy-duty trucks too high for SFDUs. Set HHD to 2%. Move 8.7% to LDA. 62.3938% new SFDU value.

Construction Off-road Equipment Mitigation - Limit the use of construction equipment during site preparation and grading phases to equipment meeting Tier 4 emissions standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	60.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	60.00
tblArchitecturalCoating	EF_Parking	250.00	60.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	60.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	60.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	125
tblAreaCoating	Area_EF_Nonresidential_Interior	250	125
tblAreaCoating	Area_EF_Parking	250	125
tblAreaCoating	Area_EF_Residential_Exterior	250	125

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

tblAreaCoating	Area_EF_Residential_Interior	250	125
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblFireplaces	NumberGas	18.70	26.00
tblFireplaces	NumberNoFireplace	3.40	3.00
tblFireplaces	NumberWood	11.90	5.00
tblFleetMix	HHD	0.07	0.02
tblFleetMix	LDA	0.54	0.62
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	6.6800e-003	0.00
tblFleetMix	MHD	7.9660e-003	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5449	50.2582	32.6798	0.0637	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,174.6305	6,174.6305	1.9483	0.0000	6,223.3389
2021	23.2042	17.8864	17.0902	0.0291	0.1257	0.9606	1.0863	0.0340	0.9031	0.9371	0.0000	2,774.3572	2,774.3572	0.7178	0.0000	2,790.0159
Maximum	23.2042	50.2582	32.6798	0.0637	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,174.6305	6,174.6305	1.9483	0.0000	6,223.3389

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.7473	14.5889	33.7207	0.0637	18.2141	0.7840	18.2772	9.9699	0.7451	10.0329	0.0000	6,174.6305	6,174.6305	1.9483	0.0000	6,223.3389
2021	23.2042	13.3419	17.3050	0.0291	0.1257	0.6805	0.8062	0.0340	0.6465	0.6804	0.0000	2,774.3572	2,774.3572	0.7178	0.0000	2,790.0159
Maximum	23.2042	14.5889	33.7207	0.0637	18.2141	0.7840	18.2772	9.9699	0.7451	10.0329	0.0000	6,174.6305	6,174.6305	1.9483	0.0000	6,223.3389

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	10.08	59.01	-2.52	0.00	0.00	53.64	11.24	0.00	52.44	17.14	0.00	0.00	0.00	0.00	0.00	0.00

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059,516 5	0.8792	0.0383	1,092.895 9
Energy	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Mobile	0.7214	1.7961	7.7625	0.0226	1.9504	0.0157	1.9661	0.5186	0.0146	0.5332		2,260.590 6	2,260.590 6	0.0878		2,262.785 1
Total	24.7928	2.8535	42.2341	0.0895	1.9504	4.5834	6.5339	0.5186	4.5824	5.1009	503.8775	3,102.752 8	3,606.630 3	0.9725	0.0435	3,643.906 9

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059,516 5	0.8792	0.0383	1,092.895 9
Energy	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Mobile	0.7214	1.7961	7.7625	0.0226	1.9504	0.0157	1.9661	0.5186	0.0146	0.5332		2,260.590 6	2,260.590 6	0.0878		2,262.785 1
Total	24.7928	2.8535	42.2341	0.0895	1.9504	4.5834	6.5339	0.5186	4.5824	5.1009	503.8775	3,102.752 8	3,606.630 3	0.9725	0.0435	3,643.906 9

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

	ROG	NOx	CO	SO2	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	5/1/2020	5/14/2020	5	10	
2	Grading	Grading	5/15/2020	6/25/2020	5	30	
3	Building Construction	Building Construction	6/26/2020	8/19/2021	5	300	
4	Paving	Paving	8/20/2021	9/16/2021	5	20	
5	Architectural Coating	Architectural Coating	9/17/2021	10/14/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 123,930; Residential Outdoor: 41,310; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.2 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0854	0.0546	0.6494	1.5300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		151.8887	151.8887	5.3300e-003		152.0218
Total	0.0854	0.0546	0.6494	1.5300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		151.8887	151.8887	5.3300e-003		152.0218

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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	0.4656	2.0175	20.8690	0.0380	18.0663	0.0621	18.1283	9.9307	0.0621	9.9928	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.2 Site Preparation - 2020**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	lb/day										lb/day					
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
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
Worker	0.0854	0.0546	0.6494	1.5300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		151.8887	151.8887	5.3300e-003		152.0218
Total	0.0854	0.0546	0.6494	1.5300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		151.8887	151.8887	5.3300e-003		152.0218

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.8653	6,005.8653	1.9424		6,054.4257

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.3 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0948	0.0606	0.7215	1.7000e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		168.7652	168.7652	5.9200e-003		168.9131
Total	0.0948	0.0606	0.7215	1.7000e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		168.7652	168.7652	5.9200e-003		168.9131

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	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	0.7616	3.3000	32.9991	0.0620	8.6733	0.1015	8.7749	3.5965	0.1015	3.6980	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.3 Grading - 2020**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	lb/day										lb/day					
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
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
Worker	0.0948	0.0606	0.7215	1.7000e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		168.7652	168.7652	5.9200e-003		168.9131
Total	0.0948	0.0606	0.7215	1.7000e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		168.7652	168.7652	5.9200e-003		168.9131

3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.4 Building Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0208	0.4605	0.1411	1.1900e-003	0.0271	2.4700e-003	0.0296	7.8100e-003	2.3600e-003	0.0102		124.1613	124.1613	7.3200e-003		124.3442
Worker	0.0569	0.0364	0.4329	1.0200e-003	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		101.2591	101.2591	3.5500e-003		101.3479
Total	0.0777	0.4968	0.5740	2.2100e-003	0.1257	3.1300e-003	0.1288	0.0340	2.9700e-003	0.0369		225.4204	225.4204	0.0109		225.6920

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	lb/day										lb/day					
Off-Road	1.6696	14.0920	17.0122	0.0269		0.7809	0.7809		0.7421	0.7421	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	1.6696	14.0920	17.0122	0.0269		0.7809	0.7809		0.7421	0.7421	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.4 Building Construction - 2020**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	lb/day										lb/day					
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
Vendor	0.0208	0.4605	0.1411	1.1900e-003	0.0271	2.4700e-003	0.0296	7.8100e-003	2.3600e-003	0.0102		124.1613	124.1613	7.3200e-003		124.3442
Worker	0.0569	0.0364	0.4329	1.0200e-003	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		101.2591	101.2591	3.5500e-003		101.3479
Total	0.0777	0.4968	0.5740	2.2100e-003	0.1257	3.1300e-003	0.1288	0.0340	2.9700e-003	0.0369		225.4204	225.4204	0.0109		225.6920

3.4 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.4 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0177	0.4219	0.1227	1.1800e-003	0.0271	1.3200e-003	0.0285	7.8100e-003	1.2600e-003	9.0800e-003		123.2458	123.2458	7.1900e-003		123.4256
Worker	0.0523	0.0323	0.3923	9.8000e-004	0.0986	6.4000e-004	0.0992	0.0262	5.9000e-004	0.0267		97.7475	97.7475	3.1400e-003		97.8261
Total	0.0700	0.4543	0.5150	2.1600e-003	0.1257	1.9600e-003	0.1277	0.0340	1.8500e-003	0.0358		220.9933	220.9933	0.0103		221.2516

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	lb/day										lb/day					
Off-Road	1.5090	12.8876	16.7900	0.0269		0.6785	0.6785		0.6446	0.6446	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.5090	12.8876	16.7900	0.0269		0.6785	0.6785		0.6446	0.6446	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.4 Building Construction - 2021**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	lb/day										lb/day					
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
Vendor	0.0177	0.4219	0.1227	1.1800e-003	0.0271	1.3200e-003	0.0285	7.8100e-003	1.2600e-003	9.0800e-003		123.2458	123.2458	7.1900e-003		123.4256
Worker	0.0523	0.0323	0.3923	9.8000e-004	0.0986	6.4000e-004	0.0992	0.0262	5.9000e-004	0.0267		97.7475	97.7475	3.1400e-003		97.8261
Total	0.0700	0.4543	0.5150	2.1600e-003	0.1257	1.9600e-003	0.1277	0.0340	1.8500e-003	0.0358		220.9933	220.9933	0.0103		221.2516

3.5 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.5 Paving - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0654	0.0404	0.4904	1.2300e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		122.1843	122.1843	3.9300e-003		122.2826
Total	0.0654	0.0404	0.4904	1.2300e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		122.1843	122.1843	3.9300e-003		122.2826

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	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.5 Paving - 2021**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	lb/day										lb/day					
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
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
Worker	0.0654	0.0404	0.4904	1.2300e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		122.1843	122.1843	3.9300e-003		122.2826
Total	0.0654	0.0404	0.4904	1.2300e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		122.1843	122.1843	3.9300e-003		122.2826

3.6 Architectural Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.9766					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	23.1955	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.6 Architectural Coating - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	8.7200e-003	5.3900e-003	0.0654	1.6000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		16.2912	16.2912	5.2000e-004		16.3044
Total	8.7200e-003	5.3900e-003	0.0654	1.6000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		16.2912	16.2912	5.2000e-004		16.3044

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	lb/day										lb/day					
Archit. Coating	22.9766					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	23.1955	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

3.6 Architectural Coating - 2021**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	lb/day										lb/day					
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
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
Worker	8.7200e-003	5.3900e-003	0.0654	1.6000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		16.2912	16.2912	5.2000e-004		16.3044
Total	8.7200e-003	5.3900e-003	0.0654	1.6000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		16.2912	16.2912	5.2000e-004		16.3044

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7214	1.7961	7.7625	0.0226	1.9504	0.0157	1.9661	0.5186	0.0146	0.5332		2,260.5906	2,260.5906	0.0878		2,262.7851
Unmitigated	0.7214	1.7961	7.7625	0.0226	1.9504	0.0157	1.9661	0.5186	0.0146	0.5332		2,260.5906	2,260.5906	0.0878		2,262.7851

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	320.96	324.36	290.70	907,685	907,685
Total	320.96	324.36	290.70	907,685	907,685

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.623938	0.036131	0.183149	0.127934	0.000000	0.000000	0.000000	0.020000	0.000936	0.001568	0.004917	0.000552	0.000876

5.0 Energy Detail

Historical Energy Use: N

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
NaturalGas Unmitigated	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2435.45	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Total		0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2.43545	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Total		0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059,516.5	0.8792	0.0383	1,092.8959
Unmitigated	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059,516.5	0.8792	0.0383	1,092.8959

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6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	22.3880	0.8005	31.5649	0.0653		4.5341	4.5341		4.5341	4.5341	503.8775	550.5882	1,054.4657	0.8743	0.0383	1,087.7228
Landscaping	0.0852	0.0325	2.8111	1.5000e-004		0.0155	0.0155		0.0155	0.0155		5.0508	5.0508	4.8900e-003		5.1731
Total	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059.5165	0.8792	0.0383	1,092.8959

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	22.3880	0.8005	31.5649	0.0653		4.5341	4.5341		4.5341	4.5341	503.8775	550.5882	1,054.4657	0.8743	0.0383	1,087.7228
Landscaping	0.0852	0.0325	2.8111	1.5000e-004		0.0155	0.0155		0.0155	0.0155		5.0508	5.0508	4.8900e-003		5.1731
Total	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059.5165	0.8792	0.0383	1,092.8959

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Summer

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

CalEEMod Model Output File
With Mitigation Measures
Daily Winter Period

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

Cheney-Wilson Subdivision Project - Mitigated
Colusa County, Winter**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	34.00	Dwelling Unit	11.04	61,200.00	97

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	3			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

Project Characteristics - CO2 Intensity Factor per PG&E 2015.

Land Use - Per Musallam pers. comm., 35 units including 1 existing unit. 34 net new units.

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Mitigation measure for Architectural Coatings: Use low VOC coatings to achieve a project-wide average of 60 g/L.

Vehicle Trips - ITE Trip Generation Manual 10th edition: 9.44 for weekdays, 9.54 for Saturday, 8.55 for Sunday.

Woodstoves - Limit the number of wood-burning fireplaces to 5 units in the project. 25 units will have natural gas-burning fireplaces. 3 units will not have fireplaces.

Area Coating - VOC content per Colusa County APCD Rule 2.26 - Architectural Coatings. Use 125 g/L average of flat and nonflat.

Energy Use -

Fleet Mix - 10.7% heavy-duty trucks too high for SFDUs. Set HHD to 2%. Move 8.7% to LDA. 62.3938% new SFDU value.

Construction Off-road Equipment Mitigation - Limit the use of construction equipment during site preparation and grading phases to equipment meeting Tier 4 emissions standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	60.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	60.00
tblArchitecturalCoating	EF_Parking	250.00	60.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	60.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	60.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	125
tblAreaCoating	Area_EF_Nonresidential_Interior	250	125
tblAreaCoating	Area_EF_Parking	250	125
tblAreaCoating	Area_EF_Residential_Exterior	250	125

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

tblAreaCoating	Area_EF_Residential_Interior	250	125
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblFireplaces	NumberGas	18.70	26.00
tblFireplaces	NumberNoFireplace	3.40	3.00
tblFireplaces	NumberWood	11.90	5.00
tblFleetMix	HHD	0.07	0.02
tblFleetMix	LDA	0.54	0.62
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	6.6800e-003	0.00
tblFleetMix	MHD	7.9660e-003	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5357	50.2714	32.5721	0.0635	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,152.849 7	6,152.849 7	1.9476	0.0000	6,201.538 6
2021	23.2034	17.9013	17.0511	0.0289	0.1257	0.9606	1.0863	0.0340	0.9032	0.9371	0.0000	2,757.554 1	2,757.554 1	0.7173	0.0000	2,773.224 3
Maximum	23.2034	50.2714	32.5721	0.0635	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	6,152.849 7	6,152.849 7	1.9476	0.0000	6,201.538 6

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.7428	14.6072	33.6130	0.0635	18.2141	0.7841	18.2772	9.9699	0.7452	10.0329	0.0000	6,152.849 6	6,152.849 6	1.9476	0.0000	6,201.538 6
2021	23.2034	13.3568	17.2659	0.0289	0.1257	0.6805	0.8062	0.0340	0.6465	0.6805	0.0000	2,757.554 1	2,757.554 1	0.7173	0.0000	2,773.224 3
Maximum	23.2034	14.6072	33.6130	0.0635	18.2141	0.7841	18.2772	9.9699	0.7452	10.0329	0.0000	6,152.849 6	6,152.849 6	1.9476	0.0000	6,201.538 6

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	10.07	58.98	-2.53	0.00	0.00	53.64	11.24	0.00	52.43	17.14	0.00	0.00	0.00	0.00	0.00	0.00

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059,516 5	0.8792	0.0383	1,092.895 9
Energy	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Mobile	0.5186	1.9436	6.9853	0.0199	1.9504	0.0159	1.9663	0.5186	0.0148	0.5334		1,997.811 1	1,997.811 1	0.0855		1,999.948 8
Total	24.5899	3.0010	41.4568	0.0868	1.9504	4.5836	6.5340	0.5186	4.5825	5.1011	503.8775	2,839.973 3	3,343.850 8	0.9702	0.0435	3,381.070 5

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059,516 5	0.8792	0.0383	1,092.895 9
Energy	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Mobile	0.5186	1.9436	6.9853	0.0199	1.9504	0.0159	1.9663	0.5186	0.0148	0.5334		1,997.811 1	1,997.811 1	0.0855		1,999.948 8
Total	24.5899	3.0010	41.4568	0.0868	1.9504	4.5836	6.5340	0.5186	4.5825	5.1011	503.8775	2,839.973 3	3,343.850 8	0.9702	0.0435	3,381.070 5

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

	ROG	NOx	CO	SO2	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	5/1/2020	5/14/2020	5	10	
2	Grading	Grading	5/15/2020	6/25/2020	5	30	
3	Building Construction	Building Construction	6/26/2020	8/19/2021	5	300	
4	Paving	Paving	8/20/2021	9/16/2021	5	20	
5	Architectural Coating	Architectural Coating	9/17/2021	10/14/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 123,930; Residential Outdoor: 41,310; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.2 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0771	0.0665	0.5524	1.3300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		132.2860	132.2860	4.6300e-003		132.4016
Total	0.0771	0.0665	0.5524	1.3300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		132.2860	132.2860	4.6300e-003		132.4016

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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	0.4656	2.0175	20.8690	0.0380	18.0663	0.0621	18.1283	9.9307	0.0621	9.9928	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.2 Site Preparation - 2020**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	lb/day										lb/day					
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
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
Worker	0.0771	0.0665	0.5524	1.3300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		132.2860	132.2860	4.6300e-003		132.4016
Total	0.0771	0.0665	0.5524	1.3300e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		132.2860	132.2860	4.6300e-003		132.4016

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.8653	6,005.8653	1.9424		6,054.4257

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.3 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0856	0.0739	0.6138	1.4800e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		146.9844	146.9844	5.1400e-003		147.1129
Total	0.0856	0.0739	0.6138	1.4800e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		146.9844	146.9844	5.1400e-003		147.1129

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	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	0.7616	3.3000	32.9991	0.0620	8.6733	0.1015	8.7749	3.5965	0.1015	3.6980	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.3 Grading - 2020**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	lb/day										lb/day					
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
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
Worker	0.0856	0.0739	0.6138	1.4800e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		146.9844	146.9844	5.1400e-003		147.1129
Total	0.0856	0.0739	0.6138	1.4800e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		146.9844	146.9844	5.1400e-003		147.1129

3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.4 Building Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0219	0.4708	0.1635	1.1500e-003	0.0271	2.5300e-003	0.0297	7.8100e-003	2.4200e-003	0.0102		119.9769	119.9769	8.1800e-003		120.1815
Worker	0.0514	0.0443	0.3683	8.9000e-004	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		88.1906	88.1906	3.0800e-003		88.2677
Total	0.0732	0.5151	0.5318	2.0400e-003	0.1257	3.1900e-003	0.1289	0.0340	3.0300e-003	0.0370		208.1675	208.1675	0.0113		208.4492

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	lb/day										lb/day					
Off-Road	1.6696	14.0920	17.0122	0.0269		0.7809	0.7809		0.7421	0.7421	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	1.6696	14.0920	17.0122	0.0269		0.7809	0.7809		0.7421	0.7421	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.4 Building Construction - 2020**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	lb/day										lb/day					
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
Vendor	0.0219	0.4708	0.1635	1.1500e-003	0.0271	2.5300e-003	0.0297	7.8100e-003	2.4200e-003	0.0102		119.9769	119.9769	8.1800e-003		120.1815
Worker	0.0514	0.0443	0.3683	8.9000e-004	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		88.1906	88.1906	3.0800e-003		88.2677
Total	0.0732	0.5151	0.5318	2.0400e-003	0.1257	3.1900e-003	0.1289	0.0340	3.0300e-003	0.0370		208.1675	208.1675	0.0113		208.4492

3.4 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.4 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0187	0.4298	0.1437	1.1400e-003	0.0271	1.3800e-003	0.0285	7.8100e-003	1.3200e-003	9.1300e-003		119.0551	119.0551	8.0700e-003		119.2568
Worker	0.0473	0.0394	0.3323	8.6000e-004	0.0986	6.4000e-004	0.0992	0.0262	5.9000e-004	0.0267		85.1351	85.1351	2.7300e-003		85.2033
Total	0.0660	0.4692	0.4759	2.0000e-003	0.1257	2.0200e-003	0.1277	0.0340	1.9100e-003	0.0359		204.1902	204.1902	0.0108		204.4600

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	lb/day										lb/day					
Off-Road	1.5090	12.8876	16.7900	0.0269		0.6785	0.6785		0.6446	0.6446	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.5090	12.8876	16.7900	0.0269		0.6785	0.6785		0.6446	0.6446	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.4 Building Construction - 2021**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	lb/day										lb/day					
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
Vendor	0.0187	0.4298	0.1437	1.1400e-003	0.0271	1.3800e-003	0.0285	7.8100e-003	1.3200e-003	9.1300e-003		119.0551	119.0551	8.0700e-003		119.2568
Worker	0.0473	0.0394	0.3323	8.6000e-004	0.0986	6.4000e-004	0.0992	0.0262	5.9000e-004	0.0267		85.1351	85.1351	2.7300e-003		85.2033
Total	0.0660	0.4692	0.4759	2.0000e-003	0.1257	2.0200e-003	0.1277	0.0340	1.9100e-003	0.0359		204.1902	204.1902	0.0108		204.4600

3.5 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.5 Paving - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0591	0.0492	0.4153	1.0700e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		106.4189	106.4189	3.4100e-003		106.5041
Total	0.0591	0.0492	0.4153	1.0700e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		106.4189	106.4189	3.4100e-003		106.5041

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	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.5 Paving - 2021**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	lb/day										lb/day					
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
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
Worker	0.0591	0.0492	0.4153	1.0700e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		106.4189	106.4189	3.4100e-003		106.5041
Total	0.0591	0.0492	0.4153	1.0700e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		106.4189	106.4189	3.4100e-003		106.5041

3.6 Architectural Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.9766					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	23.1955	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.6 Architectural Coating - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	7.8800e-003	6.5600e-003	0.0554	1.4000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		14.1892	14.1892	4.5000e-004		14.2006
Total	7.8800e-003	6.5600e-003	0.0554	1.4000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		14.1892	14.1892	4.5000e-004		14.2006

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	lb/day										lb/day					
Archit. Coating	22.9766					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	23.1955	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

3.6 Architectural Coating - 2021**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	lb/day										lb/day					
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
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
Worker	7.8800e-003	6.5600e-003	0.0554	1.4000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		14.1892	14.1892	4.5000e-004		14.2006
Total	7.8800e-003	6.5600e-003	0.0554	1.4000e-004	0.0164	1.1000e-004	0.0165	4.3600e-003	1.0000e-004	4.4600e-003		14.1892	14.1892	4.5000e-004		14.2006

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5186	1.9436	6.9853	0.0199	1.9504	0.0159	1.9663	0.5186	0.0148	0.5334		1,997.811 1	1,997.811 1	0.0855		1,999.948 8
Unmitigated	0.5186	1.9436	6.9853	0.0199	1.9504	0.0159	1.9663	0.5186	0.0148	0.5334		1,997.811 1	1,997.811 1	0.0855		1,999.948 8

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	320.96	324.36	290.70	907,685	907,685
Total	320.96	324.36	290.70	907,685	907,685

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.623938	0.036131	0.183149	0.127934	0.000000	0.000000	0.000000	0.020000	0.000936	0.001568	0.004917	0.000552	0.000876

5.0 Energy Detail

Historical Energy Use: N

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
NaturalGas Unmitigated	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2435.45	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Total		0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

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	lb/day										lb/day					
Single Family Housing	2.43545	0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258
Total		0.0263	0.2244	0.0955	1.4300e-003		0.0182	0.0182		0.0182	0.0182		286.5232	286.5232	5.4900e-003	5.2500e-003	288.2258

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059,516.5	0.8792	0.0383	1,092.8959
Unmitigated	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059,516.5	0.8792	0.0383	1,092.8959

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	22.3880	0.8005	31.5649	0.0653		4.5341	4.5341		4.5341	4.5341	503.8775	550.5882	1,054.4657	0.8743	0.0383	1,087.7228
Landscaping	0.0852	0.0325	2.8111	1.5000e-004		0.0155	0.0155		0.0155	0.0155		5.0508	5.0508	4.8900e-003		5.1731
Total	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059.5165	0.8792	0.0383	1,092.8959

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	22.3880	0.8005	31.5649	0.0653		4.5341	4.5341		4.5341	4.5341	503.8775	550.5882	1,054.4657	0.8743	0.0383	1,087.7228
Landscaping	0.0852	0.0325	2.8111	1.5000e-004		0.0155	0.0155		0.0155	0.0155		5.0508	5.0508	4.8900e-003		5.1731
Total	24.0451	0.8330	34.3760	0.0655		4.5496	4.5496		4.5496	4.5496	503.8775	555.6390	1,059.5165	0.8792	0.0383	1,092.8959

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

Cheney-Wilson Subdivision Project - Mitigated - Colusa County, Winter

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation
