

APPENDIX D

Air Quality Modeling

Plumas County GP 2035 Area and GHGs
Plumas County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	4765	Dwelling Unit

1.2 Other Project Characteristics

Urbanization Rural Wind Speed (m/s) 2.2 Utility Company Pacific Gas & Electric Company
 Climate Zone 14 Precipitation Freq (Days) 73

1.3 User Entered Comments

Project Characteristics -
 Land Use - Population from PD, acreages/sq ft are model defaults
 Construction Phase - Construction activities not included in analysis
 Off-road Equipment - Construction activities not included in analysis
 Trips and VMT - Construction activities not included in analysis
 Vehicle Trips - On-road emissions estimated separately using EMFAC2011

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	347.37	4.47	403.97	0.15		0.00	52.23		0.00	52.23	4,922.04	6,251.15	11,173.19	4.68	0.46	11,414.89
Energy	0.69	5.88	2.50	0.04		0.00	0.48		0.00	0.48	0.00	16,105.87	16,105.87	0.55	0.28	16,205.57
Mobile	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00	539.25	0.00	539.25	31.87	0.00	1,208.48
Water						0.00	0.00		0.00	0.00	0.00	691.47	691.47	9.51	0.25	967.64
Total	348.06	10.35	406.47	0.19	0.00	0.00	52.71	0.00	0.00	52.71	5,461.29	23,048.49	28,509.78	46.61	0.99	29,796.58

2.2 Overall Operational

Mitigated Operational

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	347.37	4.47	403.97	0.15		0.00	52.23		0.00	52.23	4,922.04	6,251.15	11,173.19	4.68	0.46	11,414.89
Energy	0.69	5.88	2.50	0.04		0.00	0.48		0.00	0.48	0.00	16,105.87	16,105.87	0.55	0.28	16,205.57
Mobile	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00	539.25	0.00	539.25	31.87	0.00	1,208.48
Water						0.00	0.00		0.00	0.00	0.00	691.47	691.47	9.51	0.25	967.64
Total	348.06	10.35	406.47	0.19	0.00	0.00	52.71	0.00	0.00	52.71	5,461.29	23,048.49	28,509.78	46.61	0.99	29,796.58

5.0 Energy Detail

5.1 Mitigation Measures Energy

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Electricity Mitigated						0.00	0.00		0.00	0.00	0.00	9,298.69	9,298.69	0.42	0.16	9,356.96
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	9,298.69	9,298.69	0.42	0.16	9,356.96
NaturalGas Mitigated	0.69	5.88	2.50	0.04		0.00	0.48		0.00	0.48	0.00	6,807.18	6,807.18	0.13	0.12	6,848.61
NaturalGas Unmitigated	0.69	5.88	2.50	0.04		0.00	0.48		0.00	0.48	0.00	6,807.18	6,807.18	0.13	0.12	6,848.61
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	tons/yr										MT/yr						
	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
Single Family Housing	1.27562e+008	0.69	5.88	2.50	0.04		0.00	0.48		0.00	0.48	0.00	6,807.18	6,807.18	0.13	0.12	6,848.61
Total		0.69	5.88	2.50	0.04		0.00	0.48		0.00	0.48	0.00	6,807.18	6,807.18	0.13	0.12	6,848.61

5.2 Energy by Land Use - NaturalGas

Mitigated

Land Use	NaturalGas Use kBtu	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
		tons/yr															MT/yr		
Single Family Housing	1.27562e+008	0.69	5.88	2.50	0.04		0.00	0.48		0.00	0.48	0.00	6,807.18	6,807.18	0.13	0.12	6,848.61		
Total		0.69	5.88	2.50	0.04		0.00	0.48		0.00	0.48	0.00	6,807.18	6,807.18	0.13	0.12	6,848.61		

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e	
		tons/yr								MT/yr
Single Family Housing	3.1964e+007					9,298.69	0.42	0.16	9,356.96	
Total						9,298.69	0.42	0.16	9,356.96	

5.3 Energy by Land Use - Electricity

Mitigated

Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e	
Land Use	tons/yr							MT/yr	
Single Family Housing	3.1964e+007				9,298.69	0.42	0.16	9,356.96	
Total					9,298.69	0.42	0.16	9,356.96	

6.0 Area Detail

6.1 Mitigation Measures Area

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	347.37	4.47	403.97	0.15		0.00	52.23		0.00	52.23	4,922.04	6,251.15	11,173.19	4.68	0.46	11,414.89
Unmitigated	347.37	4.47	403.97	0.15		0.00	52.23		0.00	52.23	4,922.04	6,251.15	11,173.19	4.68	0.46	11,414.89
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

SubCategory	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Architectural Coating	13.41					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	33.50					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	299.40	4.06	368.34	0.14		0.00	52.03		0.00	52.03	4,922.04	6,192.70	11,114.74	4.62	0.46	11,355.27
Landscaping	1.06	0.41	35.63	0.00		0.00	0.20		0.00	0.20	0.00	58.45	58.45	0.06	0.00	59.62
Total	347.37	4.47	403.97	0.14		0.00	52.23		0.00	52.23	4,922.04	6,251.15	11,173.19	4.68	0.46	11,414.89

Mitigated

SubCategory	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Architectural Coating	13.41					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	33.50					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	299.40	4.06	368.34	0.14		0.00	52.03		0.00	52.03	4,922.04	6,192.70	11,114.74	4.62	0.46	11,355.27
Landscaping	1.06	0.41	35.63	0.00		0.00	0.20		0.00	0.20	0.00	58.45	58.45	0.06	0.00	59.62
Total	347.37	4.47	403.97	0.14		0.00	52.23		0.00	52.23	4,922.04	6,251.15	11,173.19	4.68	0.46	11,414.89

7.0 Water Detail

7.1 Mitigation Measures Water

Category	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Mitigated					691.47	9.51	0.25	967.64
Unmitigated					691.47	9.51	0.25	967.64
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Single Family Housing	Mgal								
Total						691.47	9.51	0.25	967.64

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr							
Single Family Housing	310.459 / 195.724					691.47	9.51	0.25	967.64
Total						691.47	9.51	0.25	967.64

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr							
Mitigated					539.25	31.87	0.00	1,208.48
Unmitigated					539.25	31.87	0.00	1,208.48
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed tons	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e	
	tons	tons/yr							MT/yr	
Single Family Housing	2656.5					539.25	31.87	0.00	1,208.48	
Total						539.25	31.87	0.00	1,208.48	

Mitigated

Land Use	Waste Disposed tons	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e	
	tons	tons/yr							MT/yr	
Single Family Housing	2656.5					539.25	31.87	0.00	1,208.48	
Total						539.25	31.87	0.00	1,208.48	

9.0 Vegetation

Plumas County GP 2035 Traffic
Plumas County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	4765	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Utility Company	Pacific Gas & Electric Company
Climate Zone	14	Precipitation Freq (Days)	73		

1.3 User Entered Comments

Project Characteristics -

Land Use - Population from PD, acreages/sq ft are model defaults

Construction Phase - Construction activities not included in analysis

Off-road Equipment - Construction activities not included in analysis

Trips and VMT - Construction activities not included in analysis

Vehicle Trips - On-road trip rates and lengths and mix adjusted to match 2035 data provided by traffic report

Architectural Coating - Construction activities not included in this analysis

Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Woodstoves - Only estimating traffic emissions
Consumer Products - Only estimating traffic emissions
Area Coating - Only estimating traffic emissions
Landscape Equipment - Only estimating traffic emissions
Energy Use - Only estimating traffic emissions
Water And Wastewater - Only estimating traffic emissions
Solid Waste - Only estimating traffic emissions

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	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
Energy	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
Mobile	50.25	88.87	391.70	2.00	178.59	8.32	186.91	3.30	6.87	10.17	0.00	135,147.7 ₄	135,147.7 ₄	3.55	0.00	135,222.2 ₇
Waste						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	50.25	88.87	391.70	2.00	178.59	8.32	186.91	3.30	6.87	10.17	0.00	135,147.7₄	135,147.7₄	3.55	0.00	135,222.2₇

2.2 Overall Operational

Mitigated Operational

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	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
Energy	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
Mobile	50.25	88.87	391.70	2.00	178.59	8.32	186.91	3.30	6.87	10.17	0.00	135,147.74	135,147.74	3.55	0.00	135,222.27
Waste						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	50.25	88.87	391.70	2.00	178.59	8.32	186.91	3.30	6.87	10.17	0.00	135,147.74	135,147.74	3.55	0.00	135,222.27

4.0 Mobile Detail

Category	ROG	NOx	CO	SO2	F-ugitive PM10	Exhaust PM10	PM10 Total	F-ugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	50.25	88.87	391.70	2.00	178.59	8.32	186.91	3.30	6.87	10.17	0.00	135,147.74	135,147.74	3.55	0.00	135,222.27
Unmitigated	50.25	88.87	391.70	2.00	178.59	8.32	186.91	3.30	6.87	10.17	0.00	135,147.74	135,147.74	3.55	0.00	135,222.27
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Single Family Housing	52,848.62	52,848.62	52,848.62	385,699,762	385,699,762
Total	52,848.62	52,848.62	52,848.62	385,699,762	385,699,762

4.3 Trip Type Information

Land Use	Miles				Trip %	
	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
Single Family Housing	20.05	20.05	20.05	100.00	0.00	0.00

Plumas County GP 2035 Existing Traffic
Plumas County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	4765	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Utility Company	Pacific Gas & Electric Company
Climate Zone	14	Precipitation Freq (Days)	73		

1.3 User Entered Comments

Project Characteristics -

Land Use - Population from PD, acreages/sq ft are model defaults

Construction Phase - Construction activities not included in analysis

Off-road Equipment - Construction activities not included in analysis

Trips and VMT - Construction activities not included in analysis

Vehicle Trips - On-road trip rates and lengths and mix adjusted to match existing data provided by traffic report

Architectural Coating - Construction activities not included in this analysis

Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Woodstoves - Only estimating traffic emissions
Consumer Products - Only estimating traffic emissions
Area Coating - Only estimating traffic emissions
Landscape Equipment - Only estimating traffic emissions
Energy Use - Only estimating traffic emissions
Water And Wastewater - Only estimating traffic emissions
Solid Waste - Only estimating traffic emissions

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	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
Energy	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
Mobile	270.50	477.62	2,698.09	1.52	132.58	12.00	144.58	6.00	12.00	17.99	0.00	146,361.49	15.95	0.00	0.00	146,696.41
Waste						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	270.50	477.62	2,698.09	1.52	132.58	12.00	144.58	6.00	12.00	17.99	0.00	146,361.49	15.95	0.00	0.00	146,696.41

2.2 Overall Operational

Mitigated Operational

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	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
Energy	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
Mobile	270.50	477.62	2,698.09	1.52	132.58	12.00	144.58	6.00	12.00	17.99	0.00	146,361.49	15.95	0.00	0.00	146,696.41
Waste						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	270.50	477.62	2,698.09	1.52	132.58	12.00	144.58	6.00	12.00	17.99	0.00	146,361.49	15.95	0.00	0.00	146,696.41

4.0 Mobile Detail

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Mitigated	270.50	477.62	2,698.09	1.52	132.58	12.00	144.58	6.00	12.00	17.99	0.00	146,361.49	146,361.49	15.95	0.00	146,696.41
Unmitigated	270.50	477.62	2,698.09	1.52	132.58	12.00	144.58	6.00	12.00	17.99	0.00	146,361.49	146,361.49	15.95	0.00	146,696.41
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Single Family Housing	39,235.01	39,235.01	39,235.01	286,344,950	286,344,950	286,344,950	286,344,950
Total	39,235.01	39,235.01	39,235.01	286,344,950	286,344,950	286,344,950	286,344,950

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Single Family Housing	20.05	20.05	20.05	100.00	0.00	0.00

Plumas County GP 2035 Area and GHGs
 Plumas County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	4765	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Utility Company	Pacific Gas & Electric Company
Climate Zone	14	Precipitation Freq (Days)	73		

1.3 User Entered Comments

- Project Characteristics -
- Land Use - Population from PD, acreages/sq ft are model defaults
 - Construction Phase - Construction activities not included in analysis
 - Off-road Equipment - Construction activities not included in analysis
 - Trips and VMT - Construction activities not included in analysis
 - Vehicle Trips - On-road emissions estimated separately using EMFAC2011

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

Category	lb/day														
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O
Area	2,781.96	49.23	4,107.91	3.53	0.00	0.00	542.21	0.00	0.00	542.17	61,374.55	56,214.70	122.80	4.15	121,453.95
Energy	3.77	32.21	13.71	0.21	0.00	0.00	2.60	0.00	0.00	2.60	41,115.78	41,115.78	0.79	0.75	41,366.01
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2,785.73	81.44	4,121.62	3.74	0.00	0.00	544.81	0.00	0.00	544.77	61,374.55	97,330.48	123.59	4.90	162,819.96

Mitigated Operational

Category	lb/day														
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O
Area	2,781.96	49.23	4,107.91	3.53	0.00	0.00	542.21	0.00	0.00	542.17	61,374.55	56,214.70	122.80	4.15	121,453.95
Energy	3.77	32.21	13.71	0.21	0.00	0.00	2.60	0.00	0.00	2.60	41,115.78	41,115.78	0.79	0.75	41,366.01
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2,785.73	81.44	4,121.62	3.74	0.00	0.00	544.81	0.00	0.00	544.77	61,374.55	97,330.48	123.59	4.90	162,819.96

5.0 Energy Detail

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
NaturalGas Mitigated	3.77	32.21	13.71	0.21		0.00	2.60		0.00	2.60		41,115.78		0.79	0.75	41,366.01
NaturalGas Unmitigated	3.77	32.21	13.71	0.21		0.00	2.60		0.00	2.60		41,115.78		0.79	0.75	41,366.01
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	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
lb/day																	
Single Family Housing	349484	3.77	32.21	13.71	0.21		0.00	2.60		0.00	2.60		41,115.78		0.79	0.75	41,366.01
Total		3.77	32.21	13.71	0.21	0.00	2.60	2.60	0.00	2.60	2.60	NA	41,115.78	NA	0.79	0.75	41,366.01

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Architectural Coating	73.45					0.00	0.00		0.00	0.00						0.00
Consumer Products	183.55					0.00	0.00		0.00	0.00						0.00
Hearth	2,513.12	44.68	3,711.63	3.51		0.00	540.01		0.00	539.97	61,374.55	55,498.24		122.12	4.15	120,723.19
Landscaping	11.84	4.55	396.29	0.02		0.00	2.20		0.00	2.20		716.46		0.68		730.76
Total	2,781.96	49.23	4,107.92	3.53		0.00	542.21		0.00	542.17	61,374.55	56,214.70		122.80	4.15	121,453.95

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Architectural Coating	73.45					0.00	0.00		0.00	0.00						0.00
Consumer Products	183.55					0.00	0.00		0.00	0.00						0.00
Hearth	2,513.12	44.68	3,711.63	3.51		0.00	540.01		0.00	539.97	61,374.55	55,498.24		122.12	4.15	120,723.19
Landscaping	11.84	4.55	396.29	0.02		0.00	2.20		0.00	2.20		716.46		0.68		730.76
Total	2,781.96	49.23	4,107.92	3.53		0.00	542.21		0.00	542.17	61,374.55	56,214.70		122.80	4.15	121,453.95

Plumas County GP 2035 Traffic
 Plumas County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	4765	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Utility Company	Pacific Gas & Electric Company
Climate Zone	14	Precipitation Freq (Days)	73		

1.3 User Entered Comments

Project Characteristics -

- Land Use - Population from PD, acreages/sq ft are model defaults
- Construction Phase - Construction activities not included in analysis
- Off-road Equipment - Construction activities not included in analysis
- Trips and VMT - Construction activities not included in analysis
- Vehicle Trips - On-road trip rates and lengths and mix adjusted to match 2035 data provided by traffic report
- Architectural Coating - Construction activities not included in this analysis

Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Woodstoves - Only estimating traffic emissions
Consumer Products - Only estimating traffic emissions
Area Coating - Only estimating traffic emissions
Landscape Equipment - Only estimating traffic emissions
Energy Use - Only estimating traffic emissions
Water And Wastewater - Only estimating traffic emissions
Solid Waste - Only estimating traffic emissions

2.0 Emissions Summary

Overall Operational

Unmitigated Operational

Category	lb/day											lb/day				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	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
Energy	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
Mobile	316.85	491.66	2,133.18	10.92	1,277.12	45.73	1,322.85	18.15	37.76	55.91	809,946.96	6	809,946.96	21.41	0	810,396.50
Total	316.85	491.66	2,133.18	10.92	1,277.12	45.73	1,322.85	18.15	37.76	55.91	809,946.96	6	809,946.96	21.41	0	810,396.50

Mitigated Operational

Category	lb/day											lb/day				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	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
Energy	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
Mobile	316.85	491.66	2,133.18	10.92	1,277.12	45.73	1,322.85	18.15	37.76	55.91	809,946.96	6	809,946.96	21.41	0	810,396.50
Total	316.85	491.66	2,133.18	10.92	1,277.12	45.73	1,322.85	18.15	37.76	55.91	809,946.96	6	809,946.96	21.41	0	810,396.50

4.0 Mobile Detail

Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Single Family Housing	52,848.62	52,848.62	52,848.62	385,699,762	385,699,762
Total	52,848.62	52,848.62	52,848.62	385,699,762	385,699,762

Trip Type Information

Land Use	Miles				Trip %	
	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
Single Family Housing	20.05	20.05	20.05	100.00	0.00	0.00

Plumas County GP 2035 Existing Traffic
 Plumas County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	4765	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Utility Company	Pacific Gas & Electric Company
Climate Zone	14	Precipitation Freq (Days)	73		

1.3 User Entered Comments

Project Characteristics -

Land Use - Population from PD, acreages/sq ft are model defaults

Construction Phase - Construction activities not included in analysis

Off-road Equipment - Construction activities not included in analysis

Trips and VMT - Construction activities not included in analysis

Vehicle Trips - On-road trip rates and lengths and mix adjusted to match existing data provided by traffic report

Architectural Coating - Construction activities not included in this analysis

Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Vehicle Emission Factors - Adjusted to match average Plumas County Caltrans truck classification
Woodstoves - Only estimating traffic emissions
Consumer Products - Only estimating traffic emissions
Area Coating - Only estimating traffic emissions
Landscape Equipment - Only estimating traffic emissions
Energy Use - Only estimating traffic emissions
Water And Wastewater - Only estimating traffic emissions
Solid Waste - Only estimating traffic emissions

2.0 Emissions Summary

Overall Operational

Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	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
Energy	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
Mobile	1,600.90	2,669.32	14,756.51	8.32	948.14	65.98	1,014.12	32.96	65.98	98.94	877,878.31	877,878.31	96.53	0.00	0.00	879,905.54
Total	1,600.90	2,669.32	14,756.51	8.32	948.14	65.98	1,014.12	32.96	65.98	98.94	0.00	877,878.31	96.53	0.00	0.00	879,905.54

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	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
Energy	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
Mobile	1,600.90	2,669.32	14,756.51	8.32	948.14	65.98	1,014.12	32.96	65.98	98.94	877,878.31	877,878.31	96.53	0.00	0.00	879,905.54
Total	1,600.90	2,669.32	14,756.51	8.32	948.14	65.98	1,014.12	32.96	65.98	98.94	0.00	877,878.31	96.53	0.00	0.00	879,905.54

4.0 Mobile Detail

Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Single Family Housing	39,235.01	39,235.01	39,235.01	286,344,950	286,344,950
Total	39,235.01	39,235.01	39,235.01	286,344,950	286,344,950

Trip Type Information

Land Use	Miles			Trip %		
	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
Single Family Housing	20.05	20.05	20.05	100.00	0.00	0.00