

APPENDIX B

Air Quality and Greenhouse Gas Data

Amador County General Plan Amador County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	12.00	1000sqft	0.28	12,000.00	0
General Light Industry	59.00	1000sqft	1.35	59,000.00	0
Apartments Low Rise	75.00	Dwelling Unit	4.69	75,000.00	215
Single Family Housing	24.00	Dwelling Unit	7.79	43,200.00	69
Regional Shopping Center	142.00	1000sqft	3.26	142,000.00	0
Strip Mall	16.00	1000sqft	0.37	16,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	2			Operational Year	2013
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Assumes construction occurs for the entire calendar year

Trips and VMT -

Grading -

Vehicle Trips - No operational emissions

Woodstoves - No operational emissions

Energy Use - No operational emissions

Water And Wastewater - No operational emissions

Solid Waste - No operational emissions

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	261.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	30.00	261.00
tblConstructionPhase	NumDays	20.00	261.00
tblConstructionPhase	NumDays	10.00	261.00
tblConstructionPhase	PhaseEndDate	12/31/2014	12/31/2013
tblConstructionPhase	PhaseEndDate	12/31/2014	12/31/2013
tblConstructionPhase	PhaseEndDate	12/31/2014	12/31/2013
tblConstructionPhase	PhaseEndDate	12/31/2014	12/31/2013
tblConstructionPhase	PhaseStartDate	1/1/2014	1/1/2013
tblConstructionPhase	PhaseStartDate	1/1/2014	1/1/2013
tblConstructionPhase	PhaseStartDate	1/1/2014	1/1/2013
tblConstructionPhase	PhaseStartDate	1/1/2014	1/1/2013
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	3.01	0.00
tblEnergyUse	LightingElect	3.64	0.00

tblEnergyUse	LightingElect	6.65	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	6.65	0.00
tblEnergyUse	NT24E	2,631.74	0.00
tblEnergyUse	NT24E	4.20	0.00
tblEnergyUse	NT24E	4.35	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24E	5,098.84	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24NG	2,498.00	0.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	NT24NG	5,933.76	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	T24E	348.18	0.00
tblEnergyUse	T24E	2.02	0.00
tblEnergyUse	T24E	3.66	0.00
tblEnergyUse	T24E	4.76	0.00
tblEnergyUse	T24E	729.62	0.00
tblEnergyUse	T24E	4.76	0.00
tblEnergyUse	T24NG	11,068.06	0.00
tblEnergyUse	T24NG	19.55	0.00
tblEnergyUse	T24NG	11.48	0.00
tblEnergyUse	T24NG	11.93	0.00
tblEnergyUse	T24NG	26,218.01	0.00
tblEnergyUse	T24NG	11.93	0.00
tblFireplaces	NumberGas	41.25	0.00
tblFireplaces	NumberGas	13.20	0.00

tblFireplaces	NumberNoFireplace	7.50	0.00
tblFireplaces	NumberNoFireplace	2.40	0.00
tblFireplaces	NumberWood	26.25	0.00
tblFireplaces	NumberWood	8.40	0.00
tblProjectCharacteristics	OperationalYear	2014	2013
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	34.50	0.00
tblSolidWaste	SolidWasteGenerationRate	73.16	0.00
tblSolidWaste	SolidWasteGenerationRate	11.16	0.00
tblSolidWaste	SolidWasteGenerationRate	149.10	0.00
tblSolidWaste	SolidWasteGenerationRate	17.25	0.00
tblSolidWaste	SolidWasteGenerationRate	16.80	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	42.94	0.00

tblVehicleTrips	WD_TR	9.57	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	4,886,551.92	0.00
tblWater	IndoorWaterUseRate	13,643,750.00	0.00
tblWater	IndoorWaterUseRate	2,132,804.98	0.00
tblWater	IndoorWaterUseRate	10,518,298.05	0.00
tblWater	IndoorWaterUseRate	1,563,696.61	0.00
tblWater	IndoorWaterUseRate	1,185,160.34	0.00
tblWater	OutdoorWaterUseRate	3,080,652.30	0.00
tblWater	OutdoorWaterUseRate	1,307,203.05	0.00
tblWater	OutdoorWaterUseRate	6,446,698.81	0.00
tblWater	OutdoorWaterUseRate	985,808.74	0.00
tblWater	OutdoorWaterUseRate	726,388.60	0.00
tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberCatalytic	1.20	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	1.20	0.00

2.0 Emissions Summary

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	1.8317	9.0600e-003	0.7600	4.0000e-005		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003	0.0000	1.2048	1.2048	1.3300e-003	0.0000	1.2327
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8317	9.0600e-003	0.7600	4.0000e-005	0.0000	3.9900e-003	3.9900e-003	0.0000	3.9900e-003	3.9900e-003	0.0000	1.2048	1.2048	1.3300e-003	0.0000	1.2327

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	1.8317	9.0600e-003	0.7600	4.0000e-005		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003	0.0000	1.2048	1.2048	1.3300e-003	0.0000	1.2327
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8317	9.0600e-003	0.7600	4.0000e-005	0.0000	3.9900e-003	3.9900e-003	0.0000	3.9900e-003	3.9900e-003	0.0000	1.2048	1.2048	1.3300e-003	0.0000	1.2327

	ROG	NOx	CO	SO2	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	1/1/2013	12/31/2013	5	261	
2	Grading	Grading	1/1/2013	12/31/2013	5	261	
3	Building Construction	Building Construction	1/1/2013	12/31/2013	5	261	
4	Paving	Paving	1/1/2013	12/31/2013	5	261	
5	Architectural Coating	Architectural Coating	1/1/2013	12/31/2013	5	261	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 652.5

Acres of Paving: 0

Residential Indoor: 239,355; Residential Outdoor: 79,785; Non-Residential Indoor: 343,500; Non-Residential Outdoor: 114,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	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	125	0.42
Paving	Paving Equipment	2	8.00	130	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	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	142.00	48.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2013**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					2.3577	0.0000	2.3577	1.2960	0.0000	1.2960	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7159	7.8149	5.7967	5.1100e-003		0.4293	0.4293		0.3950	0.3950	0.0000	495.1805	495.1805	0.1456	0.0000	498.2380
Total	0.7159	7.8149	5.7967	5.1100e-003	2.3577	0.4293	2.7870	1.2960	0.3950	1.6910	0.0000	495.1805	495.1805	0.1456	0.0000	498.2380

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	0.0231	0.0362	0.3290	3.1000e-004	0.0289	3.0000e-004	0.0292	7.6800e-003	2.7000e-004	7.9500e-003	0.0000	25.4561	25.4561	2.2000e-003	0.0000	25.5022
Total	0.0231	0.0362	0.3290	3.1000e-004	0.0289	3.0000e-004	0.0292	7.6800e-003	2.7000e-004	7.9500e-003	0.0000	25.4561	25.4561	2.2000e-003	0.0000	25.5022

3.2 Site Preparation - 2013**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					2.3577	0.0000	2.3577	1.2960	0.0000	1.2960	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7159	7.8149	5.7966	5.1100e-003		0.4293	0.4293		0.3950	0.3950	0.0000	495.1799	495.1799	0.1456	0.0000	498.2374
Total	0.7159	7.8149	5.7966	5.1100e-003	2.3577	0.4293	2.7870	1.2960	0.3950	1.6910	0.0000	495.1799	495.1799	0.1456	0.0000	498.2374

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0231	0.0362	0.3290	3.1000e-004	0.0289	3.0000e-004	0.0292	7.6800e-003	2.7000e-004	7.9500e-003	0.0000	25.4561	25.4561	2.2000e-003	0.0000	25.5022
Total	0.0231	0.0362	0.3290	3.1000e-004	0.0289	3.0000e-004	0.0292	7.6800e-003	2.7000e-004	7.9500e-003	0.0000	25.4561	25.4561	2.2000e-003	0.0000	25.5022

3.3 Grading - 2013

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					1.1319	0.0000	1.1319	0.4693	0.0000	0.4693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.9293	11.0202	6.9516	8.0600e-003		0.5322	0.5322		0.4897	0.4897	0.0000	780.3614	780.3614	0.2294	0.0000	785.1797
Total	0.9293	11.0202	6.9516	8.0600e-003	1.1319	0.5322	1.6641	0.4693	0.4897	0.9590	0.0000	780.3614	780.3614	0.2294	0.0000	785.1797

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	0.0257	0.0402	0.3656	3.5000e-004	0.0321	3.4000e-004	0.0324	8.5300e-003	3.0000e-004	8.8400e-003	0.0000	28.2845	28.2845	2.4400e-003	0.0000	28.3358
Total	0.0257	0.0402	0.3656	3.5000e-004	0.0321	3.4000e-004	0.0324	8.5300e-003	3.0000e-004	8.8400e-003	0.0000	28.2845	28.2845	2.4400e-003	0.0000	28.3358

3.3 Grading - 2013

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					1.1319	0.0000	1.1319	0.4693	0.0000	0.4693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.9293	11.0201	6.9516	8.0600e-003		0.5322	0.5322		0.4897	0.4897	0.0000	780.3605	780.3605	0.2294	0.0000	785.1787
Total	0.9293	11.0201	6.9516	8.0600e-003	1.1319	0.5322	1.6641	0.4693	0.4897	0.9590	0.0000	780.3605	780.3605	0.2294	0.0000	785.1787

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0257	0.0402	0.3656	3.5000e-004	0.0321	3.4000e-004	0.0324	8.5300e-003	3.0000e-004	8.8400e-003	0.0000	28.2845	28.2845	2.4400e-003	0.0000	28.3358
Total	0.0257	0.0402	0.3656	3.5000e-004	0.0321	3.4000e-004	0.0324	8.5300e-003	3.0000e-004	8.8400e-003	0.0000	28.2845	28.2845	2.4400e-003	0.0000	28.3358

3.4 Building Construction - 2013

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	0.5408	4.2857	2.5059	3.5000e-003		0.3105	0.3105		0.2925	0.2925	0.0000	322.0735	322.0735	0.0832	0.0000	323.8201
Total	0.5408	4.2857	2.5059	3.5000e-003		0.3105	0.3105		0.2925	0.2925	0.0000	322.0735	322.0735	0.0832	0.0000	323.8201

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	0.2317	0.8899	2.9821	1.3000e-003	0.0359	0.0250	0.0609	0.0103	0.0230	0.0332	0.0000	117.4056	117.4056	1.8900e-003	0.0000	117.4454
Worker	0.1824	0.2854	2.5956	2.4500e-003	0.2278	2.3900e-003	0.2302	0.0606	2.1500e-003	0.0627	0.0000	200.8201	200.8201	0.0173	0.0000	201.1840
Total	0.4140	1.1753	5.5776	3.7500e-003	0.2637	0.0274	0.2911	0.0709	0.0251	0.0960	0.0000	318.2257	318.2257	0.0192	0.0000	318.6293

3.4 Building Construction - 2013**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	0.5408	4.2857	2.5059	3.5000e-003		0.3105	0.3105		0.2925	0.2925	0.0000	322.0731	322.0731	0.0832	0.0000	323.8197
Total	0.5408	4.2857	2.5059	3.5000e-003		0.3105	0.3105		0.2925	0.2925	0.0000	322.0731	322.0731	0.0832	0.0000	323.8197

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	0.2317	0.8899	2.9821	1.3000e-003	0.0359	0.0250	0.0609	0.0103	0.0230	0.0332	0.0000	117.4056	117.4056	1.8900e-003	0.0000	117.4454
Worker	0.1824	0.2854	2.5956	2.4500e-003	0.2278	2.3900e-003	0.2302	0.0606	2.1500e-003	0.0627	0.0000	200.8201	200.8201	0.0173	0.0000	201.1840
Total	0.4140	1.1753	5.5776	3.7500e-003	0.2637	0.0274	0.2911	0.0709	0.0251	0.0960	0.0000	318.2257	318.2257	0.0192	0.0000	318.6293

3.5 Paving - 2013**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	0.3270	3.6160	1.9633	2.9100e-003		0.2023	0.2023		0.1861	0.1861	0.0000	281.3499	281.3499	0.0827	0.0000	283.0870
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.3270	3.6160	1.9633	2.9100e-003		0.2023	0.2023		0.1861	0.1861	0.0000	281.3499	281.3499	0.0827	0.0000	283.0870

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	0.0193	0.0302	0.2742	2.6000e-004	0.0241	2.5000e-004	0.0243	6.4000e-003	2.3000e-004	6.6300e-003	0.0000	21.2134	21.2134	1.8300e-003	0.0000	21.2518
Total	0.0193	0.0302	0.2742	2.6000e-004	0.0241	2.5000e-004	0.0243	6.4000e-003	2.3000e-004	6.6300e-003	0.0000	21.2134	21.2134	1.8300e-003	0.0000	21.2518

3.5 Paving - 2013**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	0.3270	3.6160	1.9633	2.9100e-003		0.2023	0.2023		0.1861	0.1861	0.0000	281.3495	281.3495	0.0827	0.0000	283.0867
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.3270	3.6160	1.9633	2.9100e-003		0.2023	0.2023		0.1861	0.1861	0.0000	281.3495	281.3495	0.0827	0.0000	283.0867

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0193	0.0302	0.2742	2.6000e-004	0.0241	2.5000e-004	0.0243	6.4000e-003	2.3000e-004	6.6300e-003	0.0000	21.2134	21.2134	1.8300e-003	0.0000	21.2518
Total	0.0193	0.0302	0.2742	2.6000e-004	0.0241	2.5000e-004	0.0243	6.4000e-003	2.3000e-004	6.6300e-003	0.0000	21.2134	21.2134	1.8300e-003	0.0000	21.2518

3.6 Architectural Coating - 2013

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	4.5026					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0634	0.3864	0.2534	3.9000e-004		0.0351	0.0351		0.0351	0.0351	0.0000	33.3200	33.3200	5.1600e-003	0.0000	33.4283
Total	4.5660	0.3864	0.2534	3.9000e-004		0.0351	0.0351		0.0351	0.0351	0.0000	33.3200	33.3200	5.1600e-003	0.0000	33.4283

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	0.0360	0.0563	0.5118	4.8000e-004	0.0449	4.7000e-004	0.0454	0.0120	4.2000e-004	0.0124	0.0000	39.5983	39.5983	3.4200e-003	0.0000	39.6701
Total	0.0360	0.0563	0.5118	4.8000e-004	0.0449	4.7000e-004	0.0454	0.0120	4.2000e-004	0.0124	0.0000	39.5983	39.5983	3.4200e-003	0.0000	39.6701

3.6 Architectural Coating - 2013

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	4.5026					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0634	0.3864	0.2534	3.9000e-004		0.0351	0.0351		0.0351	0.0351	0.0000	33.3199	33.3199	5.1600e-003	0.0000	33.4283
Total	4.5660	0.3864	0.2534	3.9000e-004		0.0351	0.0351		0.0351	0.0351	0.0000	33.3199	33.3199	5.1600e-003	0.0000	33.4283

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0360	0.0563	0.5118	4.8000e-004	0.0449	4.7000e-004	0.0454	0.0120	4.2000e-004	0.0124	0.0000	39.5983	39.5983	3.4200e-003	0.0000	39.6701
Total	0.0360	0.0563	0.5118	4.8000e-004	0.0449	4.7000e-004	0.0454	0.0120	4.2000e-004	0.0124	0.0000	39.5983	39.5983	3.4200e-003	0.0000	39.6701

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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	1.8317	9.0600e-003	0.7600	4.0000e-005		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003	0.0000	1.2048	1.2048	1.3300e-003	0.0000	1.2327
Unmitigated	1.8317	9.0600e-003	0.7600	4.0000e-005		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003	0.0000	1.2048	1.2048	1.3300e-003	0.0000	1.2327

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	0.4503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0255	9.0600e-003	0.7600	4.0000e-005		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003	0.0000	1.2048	1.2048	1.3300e-003	0.0000	1.2327
Total	1.8317	9.0600e-003	0.7600	4.0000e-005		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003	0.0000	1.2048	1.2048	1.3300e-003	0.0000	1.2327

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	0.4503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0255	9.0600e-003	0.7600	4.0000e-005		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003	0.0000	1.2048	1.2048	1.3300e-003	0.0000	1.2327
Total	1.8317	9.0600e-003	0.7600	4.0000e-005		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003	0.0000	1.2048	1.2048	1.3300e-003	0.0000	1.2327

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	0.0000	0.0000	0.0000	0.0000
Mitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Amador County GP (Existing)
Amador County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	368.75	1000sqft	8.47	368,750.00	0
General Light Industry	500.00	1000sqft	11.48	500,000.00	0
Apartments Low Rise	929.00	Dwelling Unit	58.06	929,000.00	1760
Single Family Housing	10,750.00	Dwelling Unit	3,490.26	19,350,000.00	20363
Regional Shopping Center	1,080.00	1000sqft	24.79	1,080,000.00	0
Strip Mall	314.00	1000sqft	7.21	314,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	2			Operational Year	2013
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Population estimates consistent with the project description

Construction Phase - No construction for existing land uses

Off-road Equipment - No construction estimates

Vehicle Trips - mobile sources modeled off-model

Woodstoves - Estimated fireplace use consistent with EPA and US Census

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	0.00
tblFireplaces	NumberGas	510.95	69.00
tblFireplaces	NumberGas	5,912.50	794.00
tblFireplaces	NumberNoFireplace	92.90	860.00
tblFireplaces	NumberNoFireplace	1,075.00	7,695.00
tblFireplaces	NumberWood	325.15	0.00
tblFireplaces	NumberWood	3,762.50	2,261.00
tblLandUse	Population	2,657.00	1,760.00
tblLandUse	Population	30,745.00	20,363.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2013
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00

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	534.8574	7.2130	628.4350	0.3291		76.9521	76.9521		76.9516	76.9516	7,540.0708	821.4344	8,361.5052	10.3265	0.4860	8,729.0314
Energy	2.0997	18.0349	8.3077	0.1145		1.4507	1.4507		1.4507	1.4507	0.0000	53,085.4814	53,085.4814	1.8590	0.6832	53,336.3114
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1,612.7084	0.0000	1,612.7084	95.3083	0.0000	3,614.1834
Water						0.0000	0.0000		0.0000	0.0000	331.6430	2,239.2998	2,570.9428	34.1642	0.8253	3,544.2174
Total	536.9571	25.2478	636.7427	0.4437	0.0000	78.4028	78.4028	0.0000	78.4023	78.4023	9,484.4222	56,146.2155	65,630.6377	141.6581	1.9945	69,223.7437

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	534.8574	7.2130	628.4350	0.3291		76.9521	76.9521		76.9516	76.9516	7,540.0708	821.4344	8,361.5052	10.3265	0.4860	8,729.0314
Energy	2.0997	18.0349	8.3077	0.1145		1.4507	1.4507		1.4507	1.4507	0.0000	53,085.4814	53,085.4814	1.8590	0.6832	53,336.3114
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1,612.7084	0.0000	1,612.7084	95.3083	0.0000	3,614.1834
Water						0.0000	0.0000		0.0000	0.0000	331.6430	2,239.2998	2,570.9428	34.1580	0.8240	3,543.6883
Total	536.9571	25.2478	636.7427	0.4437	0.0000	78.4028	78.4028	0.0000	78.4023	78.4023	9,484.4222	56,146.2155	65,630.6377	141.6519	1.9932	69,223.2146

	ROG	NOx	CO	SO2	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	0.06	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	1/1/2015	12/31/2014	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	37.30	20.70	42.00	86	11	3
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Office Park	14.70	6.60	6.60	33.00	48.00	19.00	82	15	3
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	37.30	20.70	42.00	86	11	3
Strip Mall	14.70	6.60	6.60	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.382564	0.105954	0.167874	0.184212	0.096455	0.012702	0.022769	0.005525	0.001834	0.001110	0.010346	0.001525	0.007131

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
NaturalGas Mitigated	2.0997	18.0349	8.3077	0.1145		1.4507	1.4507		1.4507	1.4507	0.0000	20,780.1288	20,780.1288	0.3983	0.3810	20,906.5932
NaturalGas Unmitigated	2.0997	18.0349	8.3077	0.1145		1.4507	1.4507		1.4507	1.4507	0.0000	20,780.1288	20,780.1288	0.3983	0.3810	20,906.5932
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	32,305.3526	32,305.3526	1.4608	0.3022	32,429.7182
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	32,305.3526	32,305.3526	1.4608	0.3022	32,429.7182

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.26029e+007	0.0680	0.5807	0.2471	3.7100e-003		0.0470	0.0470		0.0470	0.0470	0.0000	672.5371	672.5371	0.0129	0.0123	676.6301
General Light Industry	9.805e+006	0.0529	0.4806	0.4037	2.8800e-003		0.0365	0.0365		0.0365	0.0365	0.0000	523.2321	523.2321	0.0100	9.5900e-003	526.4164
Office Park	4.23325e+006	0.0228	0.2075	0.1743	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	225.9023	225.9023	4.3300e-003	4.1400e-003	227.2772
Regional Shopping Center	1.32732e+007	0.0716	0.6507	0.5465	3.9000e-003		0.0495	0.0495		0.0495	0.0495	0.0000	708.3085	708.3085	0.0136	0.0130	712.6192
Single Family Housing	3.45632e+008	1.8637	15.9262	6.7771	0.1017		1.2877	1.2877		1.2877	1.2877	0.0000	18,444.2146	18,444.2146	0.3535	0.3381	18,556.4630
Strip Mall	3.85906e+006	0.0208	0.1892	0.1589	1.1400e-003		0.0144	0.0144		0.0144	0.0144	0.0000	205.9341	205.9341	3.9500e-003	3.7800e-003	207.1874
Total		2.0997	18.0349	8.3077	0.1145		1.4507	1.4507		1.4507	1.4507	0.0000	20,780.1288	20,780.1288	0.3983	0.3810	20,906.5932

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.26029e+007	0.0680	0.5807	0.2471	3.7100e-003		0.0470	0.0470		0.0470	0.0470	0.0000	672.5371	672.5371	0.0129	0.0123	676.6301
General Light Industry	9.805e+006	0.0529	0.4806	0.4037	2.8800e-003		0.0365	0.0365		0.0365	0.0365	0.0000	523.2321	523.2321	0.0100	9.5900e-003	526.4164
Office Park	4.23325e+006	0.0228	0.2075	0.1743	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	225.9023	225.9023	4.3300e-003	4.1400e-003	227.2772
Regional Shopping Center	1.32732e+007	0.0716	0.6507	0.5465	3.9000e-003		0.0495	0.0495		0.0495	0.0495	0.0000	708.3085	708.3085	0.0136	0.0130	712.6192
Single Family Housing	3.45632e+008	1.8637	15.9262	6.7771	0.1017		1.2877	1.2877		1.2877	1.2877	0.0000	18,444.2146	18,444.2146	0.3535	0.3381	18,556.4630
Strip Mall	3.85906e+006	0.0208	0.1892	0.1589	1.1400e-003		0.0144	0.0144		0.0144	0.0144	0.0000	205.9341	205.9341	3.9500e-003	3.7800e-003	207.1874
Total		2.0997	18.0349	8.3077	0.1145		1.4507	1.4507		1.4507	1.4507	0.0000	20,780.1288	20,780.1288	0.3983	0.3810	20,906.5932

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.52117e+006	1,024.3488	0.0463	9.5800e-003	1,028.2922
General Light Industry	4.615e+006	1,342.5564	0.0607	0.0126	1,347.7249
Office Park	4.29594e+006	1,249.7375	0.0565	0.0117	1,254.5486
Regional Shopping Center	1.44612e+007	4,206.9289	0.1902	0.0394	4,223.1243
Single Family Housing	7.9951e+007	23,258.6554	1.0517	0.2176	23,348.1941
Strip Mall	4.20446e+006	1,223.1256	0.0553	0.0114	1,227.8343
Total		32,305.3526	1.4608	0.3022	32,429.7182

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.52117e+006	1,024.3488	0.0463	9.5800e-003	1,028.2922
General Light Industry	4.615e+006	1,342.5564	0.0607	0.0126	1,347.7249
Office Park	4.29594e+006	1,249.7375	0.0565	0.0117	1,254.5486
Regional Shopping Center	1.44612e+007	4,206.9289	0.1902	0.0394	4,223.1243
Single Family Housing	7.9951e+007	23,258.6554	1.0517	0.2176	23,348.1941
Strip Mall	4.20446e+006	1,223.1256	0.0553	0.0114	1,227.8343
Total		32,305.3526	1.4608	0.3022	32,429.7182

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	534.8574	7.2130	628.4350	0.3291		76.9521	76.9521		76.9516	76.9516	7,540.0708	821.4344	8,361.5052	10.3265	0.4860	8,729.0314
Unmitigated	534.8574	7.2130	628.4350	0.3291		76.9521	76.9521		76.9516	76.9516	7,540.0708	821.4344	8,361.5052	10.3265	0.4860	8,729.0314

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	34.3447					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	88.0368					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	409.4977	6.1470	539.0232	0.3246		76.4819	76.4819		76.4814	76.4814	7,540.0708	679.7418	8,219.8126	10.1712	0.4860	8,584.0770
Landscaping	2.9782	1.0660	89.4119	4.5800e-003		0.4702	0.4702		0.4702	0.4702	0.0000	141.6926	141.6926	0.1553	0.0000	144.9544
Total	534.8574	7.2130	628.4350	0.3291		76.9521	76.9521		76.9516	76.9516	7,540.0708	821.4344	8,361.5052	10.3265	0.4860	8,729.0314

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	34.3447					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	88.0368					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	409.4977	6.1470	539.0232	0.3246		76.4819	76.4819		76.4814	76.4814	7,540.0708	679.7418	8,219.8126	10.1712	0.4860	8,584.0770
Landscaping	2.9782	1.0660	89.4119	4.5800e-003		0.4702	0.4702		0.4702	0.4702	0.0000	141.6926	141.6926	0.1553	0.0000	144.9544
Total	534.8574	7.2130	628.4350	0.3291		76.9521	76.9521		76.9516	76.9516	7,540.0708	821.4344	8,361.5052	10.3265	0.4860	8,729.0314

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	2,570.9428	34.1642	0.8253	3,544.2174
Mitigated	2,570.9428	34.1580	0.8240	3,543.6883

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	60.5281 / 38.159	153.3345	1.9784	0.0478	209.7062
General Light Industry	115.625 / 0	218.6903	3.7759	0.0907	326.0898
Office Park	65.5393 / 40.1693	164.8594	2.1421	0.0518	225.8937
Regional Shopping Center	79.9983 / 49.0312	201.2300	2.6147	0.0632	275.7294
Single Family Housing	700.406 / 441.56	1,774.3227	22.8929	0.5534	2,426.6325
Strip Mall	23.2588 / 14.2554	58.5058	0.7602	0.0184	80.1658
Total		2,570.9428	34.1642	0.8252	3,544.2174

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	60.5281 / 38.159	153.3345	1.9780	0.0478	209.6756
General Light Industry	115.625 / 0	218.6903	3.7752	0.0905	326.0313
Office Park	65.5393 / 40.1693	164.8594	2.1417	0.0517	225.8606
Regional Shopping Center	79.9983 / 49.0312	201.2300	2.6142	0.0631	275.6890
Single Family Housing	700.406 / 441.56	1,774.3227	22.8888	0.5526	2,426.2780
Strip Mall	23.2588 / 14.2554	58.5058	0.7601	0.0184	80.1540
Total		2,570.9428	34.1579	0.8240	3,543.6883

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,612.708 4	95.3083	0.0000	3,614.183 4
Unmitigated	1,612.708 4	95.3083	0.0000	3,614.183 4

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	427.34	86.7462	5.1266	0.0000	194.4037
General Light Industry	620	125.8544	7.4378	0.0000	282.0478
Office Park	342.94	69.6137	4.1141	0.0000	156.0088
Regional Shopping Center	1134	230.1918	13.6039	0.0000	515.8746
Single Family Housing	5090.75	1,033.376 2	61.0708	0.0000	2,315.862 8
Strip Mall	329.7	66.9261	3.9552	0.0000	149.9858
Total		1,612.708 4	95.3083	0.0000	3,614.183 4

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	427.34	86.7462	5.1266	0.0000	194.4037
General Light Industry	620	125.8544	7.4378	0.0000	282.0478
Office Park	342.94	69.6137	4.1141	0.0000	156.0088
Regional Shopping Center	1134	230.1918	13.6039	0.0000	515.8746
Single Family Housing	5090.75	1,033.3762	61.0708	0.0000	2,315.8628
Strip Mall	329.7	66.9261	3.9552	0.0000	149.9858
Total		1,612.7084	95.3083	0.0000	3,614.1834

9.0 Operational Offroad

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

Amador County 2030 Full Buildout Amador County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	570.00	1000sqft	13.09	570,000.00	0
General Light Industry	1,500.00	1000sqft	34.44	1,500,000.00	0
Apartments Low Rise	2,127.00	Dwelling Unit	132.94	2,127,000.00	4017
Single Family Housing	11,237.00	Dwelling Unit	3,648.38	20,226,600.00	21224
Regional Shopping Center	3,500.00	1000sqft	80.35	3,500,000.00	0
Strip Mall	585.00	1000sqft	13.43	585,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	2			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Population estimates consistent with the project description

Construction Phase - No construction estimates

Vehicle Trips - mobile source emissions modeled off-model

Woodstoves - Estimated fireplace use consistent with EPA and US Census

Off-road Equipment - No construction estimates

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	0.00
tblFireplaces	NumberGas	1,169.85	157.00
tblFireplaces	NumberGas	6,180.35	830.00
tblFireplaces	NumberNoFireplace	212.70	1,970.00
tblFireplaces	NumberNoFireplace	1,123.70	8,044.00
tblFireplaces	NumberWood	744.45	0.00
tblFireplaces	NumberWood	3,932.95	2,363.00
tblLandUse	Population	6,083.00	4,017.00
tblLandUse	Population	32,138.00	21,224.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2030
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00

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	584.3860	7.5660	662.3825	0.3445		80.4905	80.4905		80.4899	80.4899	7,880.636 3	939.6096	8,820.245 8	10.7880	0.5092	9,204.640 4
Energy	2.5683	22.2009	11.1978	0.1401		1.7745	1.7745		1.7745	1.7745	0.0000	73,947.01 18	73,947.01 18	2.6815	0.9200	74,288.52 23
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	2,631.528 2	0.0000	2,631.528 2	155.5189	0.0000	5,897.424 2
Water						0.0000	0.0000		0.0000	0.0000	514.4233	3,363.387 1	3,877.810 4	52.9883	1.2790	5,387.067 7
Total	586.9543	29.7670	673.5803	0.4846	0.0000	82.2650	82.2650	0.0000	82.2644	82.2644	11,026.58 77	78,250.00 84	89,276.59 62	221.9767	2.7082	94,777.65 46

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	584.3860	7.5660	662.3825	0.3445		80.4905	80.4905		80.4899	80.4899	7,880.6363	939.6096	8,820.2458	10.7880	0.5092	9,204.6404
Energy	2.5683	22.2009	11.1978	0.1401		1.7745	1.7745		1.7745	1.7745	0.0000	73,947.0118	73,947.0118	2.6815	0.9200	74,288.5223
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	2,631.5282	0.0000	2,631.5282	155.5189	0.0000	5,897.4242
Water						0.0000	0.0000		0.0000	0.0000	514.4233	3,363.3871	3,877.8104	52.9787	1.2771	5,386.2470
Total	586.9543	29.7670	673.5803	0.4846	0.0000	82.2650	82.2650	0.0000	82.2644	82.2644	11,026.5877	78,250.0084	89,276.5962	221.9670	2.7062	94,776.8339

	ROG	NOx	CO	SO2	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	0.07	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	1/1/2015	12/31/2014	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	16.80	7.10	7.90	37.30	20.70	42.00	86	11	3
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Office Park	14.70	6.60	6.60	33.00	48.00	19.00	82	15	3
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	37.30	20.70	42.00	86	11	3
Strip Mall	14.70	6.60	6.60	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.383850	0.105647	0.168738	0.174954	0.094390	0.012604	0.031235	0.005870	0.001932	0.001085	0.011151	0.001404	0.007141

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
NaturalGas Mitigated	2.5683	22.2009	11.1978	0.1401		1.7745	1.7745		1.7745	1.7745	0.0000	25,417.5927	25,417.5927	0.4872	0.4660	25,572.2800
NaturalGas Unmitigated	2.5683	22.2009	11.1978	0.1401		1.7745	1.7745		1.7745	1.7745	0.0000	25,417.5927	25,417.5927	0.4872	0.4660	25,572.2800
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	48,529.4190	48,529.4190	2.1944	0.4540	48,716.2424
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	48,529.4190	48,529.4190	2.1944	0.4540	48,716.2424

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	2.8855e+007	0.1556	1.3296	0.5658	8.4900e-003		0.1075	0.1075		0.1075	0.1075	0.0000	1,539.8132	1,539.8132	0.0295	0.0282	1,549.1843
General Light Industry	2.9415e+007	0.1586	1.4419	1.2112	8.6500e-003		0.1096	0.1096		0.1096	0.1096	0.0000	1,569.6964	1,569.6964	0.0301	0.0288	1,579.2493
Office Park	6.5436e+006	0.0353	0.3208	0.2694	1.9200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	349.1914	349.1914	6.6900e-003	6.4000e-003	351.3165
Regional Shopping Center	4.3015e+007	0.2319	2.1086	1.7712	0.0127		0.1603	0.1603		0.1603	0.1603	0.0000	2,295.4442	2,295.4442	0.0440	0.0421	2,309.4139
Single Family Housing	3.61289e+008	1.9481	16.6477	7.0841	0.1063		1.3460	1.3460		1.3460	1.3460	0.0000	19,279.7804	19,279.7804	0.3695	0.3535	19,397.1139
Strip Mall	7.18965e+006	0.0388	0.3524	0.2960	2.1100e-003		0.0268	0.0268		0.0268	0.0268	0.0000	383.6671	383.6671	7.3500e-003	7.0300e-003	386.0020
Total		2.5683	22.2009	11.1978	0.1401		1.7745	1.7745		1.7745	1.7745	0.0000	25,417.5927	25,417.5927	0.4872	0.4660	25,572.2800

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	2.8855e+007	0.1556	1.3296	0.5658	8.4900e-003		0.1075	0.1075		0.1075	0.1075	0.0000	1,539.8132	1,539.8132	0.0295	0.0282	1,549.1843
General Light Industry	2.9415e+007	0.1586	1.4419	1.2112	8.6500e-003		0.1096	0.1096		0.1096	0.1096	0.0000	1,569.6964	1,569.6964	0.0301	0.0288	1,579.2493
Office Park	6.5436e+006	0.0353	0.3208	0.2694	1.9200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	349.1914	349.1914	6.6900e-003	6.4000e-003	351.3165
Regional Shopping Center	4.3015e+007	0.2319	2.1086	1.7712	0.0127		0.1603	0.1603		0.1603	0.1603	0.0000	2,295.4442	2,295.4442	0.0440	0.0421	2,309.4139
Single Family Housing	3.61289e+008	1.9481	16.6477	7.0841	0.1063		1.3460	1.3460		1.3460	1.3460	0.0000	19,279.7804	19,279.7804	0.3695	0.3535	19,397.1139
Strip Mall	7.18965e+006	0.0388	0.3524	0.2960	2.1100e-003		0.0268	0.0268		0.0268	0.0268	0.0000	383.6671	383.6671	7.3500e-003	7.0300e-003	386.0020
Total		2.5683	22.2009	11.1978	0.1401		1.7745	1.7745		1.7745	1.7745	0.0000	25,417.5927	25,417.5927	0.4872	0.4660	25,572.2800

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	8.06193e+006	2,345.3066	0.1061	0.0219	2,354.3353
General Light Industry	1.3845e+007	4,027.6693	0.1821	0.0377	4,043.1745
Office Park	6.6405e+006	1,931.7976	0.0874	0.0181	1,939.2344
Regional Shopping Center	4.6865e+007	13,633.5659	0.6165	0.1276	13,686.0509
Single Family Housing	8.35729e+007	24,312.3266	1.0993	0.2275	24,405.9215
Strip Mall	7.83315e+006	2,278.7532	0.1030	0.0213	2,287.5257
Total		48,529.4190	2.1944	0.4540	48,716.2424

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	8.06193e+006	2,345.3066	0.1061	0.0219	2,354.3353
General Light Industry	1.3845e+007	4,027.6693	0.1821	0.0377	4,043.1745
Office Park	6.6405e+006	1,931.7976	0.0874	0.0181	1,939.2344
Regional Shopping Center	4.6865e+007	13,633.5659	0.6165	0.1276	13,686.0509
Single Family Housing	8.35729e+007	24,312.3266	1.0993	0.2275	24,405.9215
Strip Mall	7.83315e+006	2,278.7532	0.1030	0.0213	2,287.5257
Total		48,529.4190	2.1944	0.4540	48,716.2424

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	584.3860	7.5660	662.3825	0.3445		80.4905	80.4905		80.4899	80.4899	7,880.6363	939.6096	8,820.2458	10.7880	0.5092	9,204.6404
Unmitigated	584.3860	7.5660	662.3825	0.3445		80.4905	80.4905		80.4899	80.4899	7,880.6363	939.6096	8,820.2458	10.7880	0.5092	9,204.6404

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	42.1001					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	111.3403					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	427.9802	6.4246	563.3592	0.3393		79.9400	79.9400		79.9394	79.9394	7,880.6363	777.4104	8,658.0466	10.6333	0.5092	9,039.1922
Landscaping	2.9653	1.1414	99.0233	5.2400e-003		0.5505	0.5505		0.5505	0.5505	0.0000	162.1992	162.1992	0.1547	0.0000	165.4482
Total	584.3860	7.5660	662.3825	0.3445		80.4905	80.4905		80.4899	80.4899	7,880.6363	939.6096	8,820.2458	10.7880	0.5092	9,204.6404

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	42.1001					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	111.3403					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	427.9802	6.4246	563.3592	0.3393		79.9400	79.9400		79.9394	79.9394	7,880.6363	777.4104	8,658.0466	10.6333	0.5092	9,039.1922
Landscaping	2.9653	1.1414	99.0233	5.2400e-003		0.5505	0.5505		0.5505	0.5505	0.0000	162.1992	162.1992	0.1547	0.0000	165.4482
Total	584.3860	7.5660	662.3825	0.3445		80.4905	80.4905		80.4899	80.4899	7,880.6363	939.6096	8,820.2458	10.7880	0.5092	9,204.6404

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	3,877.8104	52.9883	1.2790	5,387.0677
Mitigated	3,877.8104	52.9787	1.2771	5,386.2470

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	138.583 / 87.3673	351.0683	4.5296	0.1095	480.1346
General Light Industry	346.875 / 0	656.0710	11.3276	0.2720	978.2693
Office Park	101.308 / 62.0921	254.8336	3.3112	0.0800	349.1781
Regional Shopping Center	259.254 / 158.898	652.1343	8.4736	0.2048	893.5676
Single Family Housing	732.136 / 461.564	1,854.7037	23.9300	0.5785	2,536.5646
Strip Mall	43.3324 / 26.5586	108.9996	1.4163	0.0342	149.3535
Total		3,877.8104	52.9883	1.2790	5,387.0677

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	138.583 / 87.3673	351.0683	4.5288	0.1093	480.0645
General Light Industry	346.875 / 0	656.0710	11.3256	0.2716	978.0938
Office Park	101.308 / 62.0921	254.8336	3.3106	0.0799	349.1268
Regional Shopping Center	259.254 / 158.898	652.1343	8.4720	0.2045	893.4364
Single Family Housing	732.136 / 461.564	1,854.7037	23.9257	0.5776	2,536.1940
Strip Mall	43.3324 / 26.5586	108.9996	1.4160	0.0342	149.3315
Total		3,877.8104	52.9787	1.2771	5,386.2470

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,631.528 2	155.5189	0.0000	5,897.424 2
Unmitigated	2,631.528 2	155.5189	0.0000	5,897.424 2

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	978.42	198.6104	11.7375	0.0000	445.0988
General Light Industry	1860	377.5632	22.3134	0.0000	846.1434
Office Park	530.1	107.6055	6.3593	0.0000	241.1509
Regional Shopping Center	3675	745.9918	44.0869	0.0000	1,671.815 7
Single Family Housing	5306	1,077.070 1	63.6530	0.0000	2,413.783 4
Strip Mall	614.25	124.6872	7.3688	0.0000	279.4321
Total		2,631.528 2	155.5189	0.0000	5,897.424 2

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	978.42	198.6104	11.7375	0.0000	445.0988
General Light Industry	1860	377.5632	22.3134	0.0000	846.1434
Office Park	530.1	107.6055	6.3593	0.0000	241.1509
Regional Shopping Center	3675	745.9918	44.0869	0.0000	1,671.8157
Single Family Housing	5306	1,077.0701	63.6530	0.0000	2,413.7834
Strip Mall	614.25	124.6872	7.3688	0.0000	279.4321
Total		2,631.5282	155.5189	0.0000	5,897.4242

9.0 Operational Offroad

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

**Amador County
AQ and GHG Operational Modeling**

Existing	Tons/year					MT
Emission Source	ROG	NO_x	CO	PM₁₀	PM_{2.5}	CO₂e
Area	534	7	628	77	77	8,729.00
Energy	2	18	8	1	1	53,336.00
Mobile	311	542	2,560	30	15	197,105.57
Waste						3,614.00
Water						3,544.00
Total	847	567	3,196	108	93	266,328.57

Full Buildout (Existing and 2030 GP)	Tons/year					MT
Emission Source	ROG	NO_x	CO	PM₁₀	PM_{2.5}	CO₂e
Area	584	8	662	80	80	9,205.00
Energy	3	13	11	2	2	74,289.00
Mobile	140	200	896	33	15	256,554.95
Waste						5,897.00
Water						5,387.00
Total	727	221	1,569	115	97	351,332.95

Net Change	Tons/year					MT
Emission Source	ROG	NO_x	CO	PM₁₀	PM_{2.5}	CO₂e
Area	50	1	34	3	3	476.00
Energy	1	(5)	3	1	1	20,953.00
Mobile	(171)	(342)	(1,663)	3	(1)	59,449.38
Waste	-	-	-	-	-	2,283.00
Water	-	-	-	-	-	1,843.00
Total	(120)	(346)	(1,626)	7	3	85,004.38

