

APPENDIX D
Air Quality/
Greenhouse Gas Emissions Data

**Parenthetical CALEEMOD Assumptions
For: Cambria Sustainable Water Facility Project
Date: October 2015**

CONSTRUCTION

Grading 1

- 300 cubic yards of cut and 300 cubic yards of fill (minor grading plus pipe trenching)

Equipment:

Type	Quantity	Hours of Daily Operation
Rubber Tired Dozers	1	8
Rollers	1	8
Rubber Tired Loaders	1	8
Skid Steer Loaders	1	8

Building Construction

Equipment:

Type	Quantity	Hours of Daily Operation
Cranes	1	7
Excavators	1	8
Other Construction Equipment	2	8
Rough Terrain Forklifts	1	6
Rubber Tired Loaders	1	6
Skid Steer Loaders	1	8
Trenchers	1	6

Architectural Coating

Equipment:

Type	Quantity	Hours of Daily Operation
Air Compressor	1	6

Cambria Sustainable Water Facility Project
San Luis Obispo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	3.00	130,680.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2014
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 - Acreage includes area of pond

Construction Phase - schedule

Off-road Equipment -

Off-road Equipment - anticipated equipment

Off-road Equipment - anticipated equipment

Trips and VMT - Cut and fill balanced on site, no import or export. Distance is movement of material across the site.

Grading - 50 CY of cut and 50 CY of fill balanced on site plus additional for pipe trenching

Architectural Coating - Pre-engineered equipment containers will be painted. Field painting will be limited to process piping and misc. equipment.

Vehicle Trips - Project is not a trip generating land use.

Area Coating - Pre-engineered equipment containers will be painted. Field painting will be limited to process piping and misc. equipment.

Energy Use - based on total installed load of 375 kW for 3 acres (130,680 SF) over an entire year.

Construction Off-road Equipment Mitigation - per SLOAPCD rules

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	65,340.00	1,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	196,020.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	196020	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	220.00	91.00
tblConstructionPhase	NumDays	6.00	132.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	11/28/2014	11/14/2014
tblConstructionPhase	PhaseEndDate	2/3/2015	11/14/2014
tblConstructionPhase	PhaseStartDate	11/15/2014	11/1/2014
tblConstructionPhase	PhaseStartDate	10/21/2014	8/1/2014
tblEnergyUse	T24E	0.00	3.00
tblGrading	AcresOfGrading	0.00	3.00
tblGrading	MaterialExported	0.00	300.00
tblGrading	MaterialImported	0.00	300.00
tblLandUse	LandUseSquareFeet	0.00	130,680.00
tblLandUse	LotAcreage	0.00	3.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.10

2.0 Emissions Summary

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					
2014	6.9440	75.9721	48.7185	0.0720	6.9374	3.6306	10.5680	3.5540	3.3399	6.8940	0.0000	7,479.5480	7,479.5480	1.8077	0.0000	7,517.5090
Total	6.9440	75.9721	48.7185	0.0720	6.9374	3.6306	10.5680	3.5540	3.3399	6.8940	0.0000	7,479.5480	7,479.5480	1.8077	0.0000	7,517.5090

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					
2014	6.9440	75.9721	48.7185	0.0720	3.2833	3.6306	6.9139	1.6102	3.3399	4.9501	0.0000	7,479.5480	7,479.5480	1.8077	0.0000	7,517.5090
Total	6.9440	75.9721	48.7185	0.0720	3.2833	3.6306	6.9139	1.6102	3.3399	4.9501	0.0000	7,479.5480	7,479.5480	1.8077	0.0000	7,517.5090

	ROG	NOx	CO	SO2	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	52.67	0.00	34.58	54.69	0.00	28.20	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	Grading	Grading	5/20/2014	10/20/2014	6	132	
2	Building Construction	Building Construction	8/1/2014	11/14/2014	6	91	
3	Architectural Coating	Architectural Coating	11/1/2014	11/14/2014	6	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 1,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Skid Steer Loaders	1	8.00	64	0.37
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Excavators	1	8.00	162	0.38

Category	lb/day										lb/day				
Fugitive Dust					6.0470	0.0000	6.0470	3.3130	0.0000	3.3130			0.0000		0.0000
Off-Road	2.2857	26.5424	16.4037	0.0197		1.2650	1.2650		1.1638	1.1638		2,087.6992	2,087.6992	0.6169	2,100.6549
Total	2.2857	26.5424	16.4037	0.0197	6.0470	1.2650	7.3121	3.3130	1.1638	4.4768		2,087.6992	2,087.6992	0.6169	2,100.6549

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	3.6900e-003	8.7500e-003	0.0458	1.0000e-005	3.0000e-005	5.0000e-005	8.0000e-005	1.0000e-005	4.0000e-005	5.0000e-005		0.6485	0.6485	2.0000e-005		0.6489
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	0.0619	0.0845	0.8580	1.1300e-003	0.0989	9.4000e-004	0.0998	0.0262	8.4000e-004	0.0271		101.0914	101.0914	6.9200e-003		101.2367
Total	0.0655	0.0933	0.9038	1.1400e-003	0.0989	9.9000e-004	0.0999	0.0262	8.8000e-004	0.0271		101.7399	101.7399	6.9400e-003		101.8856

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					2.5851	0.0000	2.5851	1.4163	0.0000	1.4163			0.0000			0.0000
Off-Road	2.2857	26.5424	16.4037	0.0197		1.2650	1.2650		1.1638	1.1638	0.0000	2,087.6992	2,087.6992	0.6169		2,100.6549

Total	2.2857	26.5424	16.4037	0.0197	2.5851	1.2650	3.8501	1.4163	1.1638	2.5801	0.0000	2,087.699 2	2,087.6992	0.6169		2,100.6549
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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	3.6900e-003	8.7500e-003	0.0458	1.0000e-005	3.0000e-005	5.0000e-005	7.0000e-005	1.0000e-005	4.0000e-005	5.0000e-005		0.6485	0.6485	2.0000e-005		0.6489
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	0.0619	0.0845	0.8580	1.1300e-003	0.0765	9.4000e-004	0.0775	0.0207	8.4000e-004	0.0216		101.0914	101.0914	6.9200e-003		101.2367
Total	0.0655	0.0933	0.9038	1.1400e-003	0.0766	9.9000e-004	0.0775	0.0208	8.8000e-004	0.0216		101.7399	101.7399	6.9400e-003		101.8856

3.3 Building Construction - 2014

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	3.8407	44.0156	23.2967	0.0362		2.2550	2.2550		2.0746	2.0746		3,845.049 3	3,845.0493	1.1363		3,868.9106
Total	3.8407	44.0156	23.2967	0.0362		2.2550	2.2550		2.0746	2.0746		3,845.049 3	3,845.0493	1.1363		3,868.9106

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	0.4120	4.8561	3.3953	8.6700e-003	0.2478	0.1044	0.3521	0.0707	0.0960	0.1666		889.0570	889.0570	9.4700e-003		889.2559
Worker	0.3402	0.4648	4.7191	6.2300e-003	0.5437	5.1700e-003	0.5489	0.1442	4.6200e-003	0.1488		556.0026	556.0026	0.0381		556.8020
Total	0.7521	5.3209	8.1143	0.0149	0.7915	0.1095	0.9010	0.2149	0.1006	0.3155		1,445.0596	1,445.0596	0.0475		1,446.0579

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	3.8407	44.0156	23.2967	0.0362		2.2550	2.2550		2.0746	2.0746	0.0000	3,845.0493	3,845.0493	1.1363		3,868.9106
Total	3.8407	44.0156	23.2967	0.0362		2.2550	2.2550		2.0746	2.0746	0.0000	3,845.0493	3,845.0493	1.1363		3,868.9106

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	0.0000	0.0000
Vendor	0.4120	4.8561	3.3953	8.6700e-003	0.2008	0.1044	0.3052	0.0591	0.0960	0.1551		889.0570	889.0570	9.4700e-003		889.2559
Worker	0.3402	0.4648	4.7191	6.2300e-003	0.4209	5.1700e-003	0.4260	0.1141	4.6200e-003	0.1187		556.0026	556.0026	0.0381		556.8020
Total	0.7521	5.3209	8.1143	0.0149	0.6217	0.1095	0.7312	0.1732	0.1006	0.2738		1,445.0596	1,445.0596	0.0475		1,446.0579

3.4 Architectural Coating - 2014

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	0.9656					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4462	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452		281.4481	281.4481	0.0401		282.2905
Total	1.4119	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452		281.4481	281.4481	0.0401		282.2905

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	0.0680	0.0930	0.9438	1.2500e-003	0.1088	1.0300e-003	0.1098	0.0288	9.2000e-004	0.0298		111.2005	111.2005	7.6100e-003		111.3604
Total	0.0680	0.0930	0.9438	1.2500e-003	0.1088	1.0300e-003	0.1098	0.0288	9.2000e-004	0.0298		111.2005	111.2005	7.6100e-003		111.3604

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	0.9656					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4462	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452	0.0000	281.4481	281.4481	0.0401		282.2905
Total	1.4119	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452	0.0000	281.4481	281.4481	0.0401		282.2905

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	0.0680	0.0930	0.9438	1.2500e-003	0.0842	1.0300e-003	0.0852	0.0228	9.2000e-004	0.0237		111.2005	111.2005	7.6100e-003		111.3604
Total	0.0680	0.0930	0.9438	1.2500e-003	0.0842	1.0300e-003	0.0852	0.0228	9.2000e-004	0.0237		111.2005	111.2005	7.6100e-003		111.3604

Cambria Sustainable Water Facility Project San Luis Obispo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	3.00	130,680.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2014
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 - Acreage includes area of pond

Construction Phase - schedule

Off-road Equipment -

Off-road Equipment - anticipated equipment

Off-road Equipment - anticipated equipment

Trips and VMT - Cut and fill balanced on site, no import or export. Distance is movement of material across the site.

Grading - 50 CY of cut and 50 CY of fill balanced on site plus additional for pipe trenching

Architectural Coating - Pre-engineered equipment containers will be painted. Field painting will be limited to process piping and misc. equipment.

Vehicle Trips - Project is not a trip generating land use.

Area Coating - Pre-engineered equipment containers will be painted. Field painting will be limited to process piping and misc. equipment.

Energy Use - based on total installed load of 375 kW for 3 acres (130,680 SF) over an entire year.

Construction Off-road Equipment Mitigation - per SLOAPCD rules

Table Name	Column Name	Default Value	New Value
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tblArchitecturalCoating	ConstArea_Nonresidential_Interior	196,020.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	196020	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	220.00	91.00
tblConstructionPhase	NumDays	6.00	132.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	11/28/2014	11/14/2014
tblConstructionPhase	PhaseEndDate	2/3/2015	11/14/2014
tblConstructionPhase	PhaseStartDate	11/15/2014	11/1/2014
tblConstructionPhase	PhaseStartDate	10/21/2014	8/1/2014
tblEnergyUse	T24E	0.00	3.00
tblGrading	AcresOfGrading	0.00	3.00
tblGrading	MaterialExported	0.00	300.00
tblGrading	MaterialImported	0.00	300.00
tblLandUse	LandUseSquareFeet	0.00	130,680.00
tblLandUse	LotAcreage	0.00	3.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.10

2.0 Emissions Summary

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					
2014	7.0436	76.1483	50.0384	0.0716	6.9374	3.6314	10.5688	3.5540	3.3407	6.8947	0.0000	7,445.3990	7,445.3990	1.8078	0.0000	7,483.3625
Total	7.0436	76.1483	50.0384	0.0716	6.9374	3.6314	10.5688	3.5540	3.3407	6.8947	0.0000	7,445.3990	7,445.3990	1.8078	0.0000	7,483.3625

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					
2014	7.0436	76.1483	50.0384	0.0716	3.2833	3.6314	6.9147	1.6102	3.3407	4.9509	0.0000	7,445.3990	7,445.3990	1.8078	0.0000	7,483.3625
Total	7.0436	76.1483	50.0384	0.0716	3.2833	3.6314	6.9147	1.6102	3.3407	4.9509	0.0000	7,445.3990	7,445.3990	1.8078	0.0000	7,483.3625

	ROG	NOx	CO	SO2	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	52.67	0.00	34.57	54.69	0.00	28.19	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	Grading	Grading	5/20/2014	10/20/2014	6	132	
2	Building Construction	Building Construction	8/1/2014	11/14/2014	6	91	
3	Architectural Coating	Architectural Coating	11/1/2014	11/14/2014	6	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 1,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Skid Steer Loaders	1	8.00	64	0.37
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Excavators	1	8.00	162	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74

Building Construction	Other Construction Equipment	2	8.00	171	0.42
Building Construction	Rough Terrain Forklifts	1	6.00	100	0.40
Building Construction	Rubber Tired Loaders	1	6.00	255	0.40
Building Construction	Skid Steer Loaders	1	8.00	64	0.37
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Trenchers	1	6.00	80	0.50
Building Construction	Welders	0	8.00	46	0.45
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
Grading	4	10.00	0.00	38.00	13.00	13.00	0.10	LD_Mix	HDT_Mix	HHDT
Building Construction	8	55.00	21.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2014

Unmitigated Construction On-Site

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										lb/day					

Fugitive Dust					6.0470	0.0000	6.0470	3.3130	0.0000	3.3130			0.0000			0.0000
Off-Road	2.2857	26.5424	16.4037	0.0197		1.2650	1.2650		1.1638	1.1638		2,087.6992	2,087.6992	0.6169		2,100.6549
Total	2.2857	26.5424	16.4037	0.0197	6.0470	1.2650	7.3121	3.3130	1.1638	4.4768		2,087.6992	2,087.6992	0.6169		2,100.6549

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	4.8800e-003	8.8100e-003	0.0690	1.0000e-005	3.0000e-005	6.0000e-005	9.0000e-005	1.0000e-005	5.0000e-005	6.0000e-005		0.5969	0.5969	2.0000e-005		0.5973
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	0.0672	0.0956	0.8827	1.0800e-003	0.0989	9.4000e-004	0.0998	0.0262	8.4000e-004	0.0271		96.4375	96.4375	6.9200e-003		96.5828
Total	0.0720	0.1045	0.9517	1.0900e-003	0.0989	1.0000e-003	0.0999	0.0262	8.9000e-004	0.0271		97.0344	97.0344	6.9400e-003		97.1801

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					2.5851	0.0000	2.5851	1.4163	0.0000	1.4163			0.0000			0.0000
Off-Road	2.2857	26.5424	16.4037	0.0197		1.2650	1.2650		1.1638	1.1638	0.0000	2,087.6992	2,087.6992	0.6169		2,100.6549
Total	2.2857	26.5424	16.4037	0.0197	2.5851	1.2650	3.8501	1.4163	1.1638	2.5801	0.0000	2,087.6992	2,087.6992	0.6169		2,100.6549

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	4.8800e-003	8.8100e-003	0.0690	1.0000e-005	3.0000e-005	6.0000e-005	8.0000e-005	1.0000e-005	5.0000e-005	6.0000e-005		0.5969	0.5969	2.0000e-005		0.5973
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	0.0672	0.0956	0.8827	1.0800e-003	0.0765	9.4000e-004	0.0775	0.0207	8.4000e-004	0.0216		96.4375	96.4375	6.9200e-003		96.5828
Total	0.0720	0.1045	0.9517	1.0900e-003	0.0766	1.0000e-003	0.0775	0.0208	8.9000e-004	0.0216		97.0344	97.0344	6.9400e-003		97.1801

3.3 Building Construction - 2014

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	3.8407	44.0156	23.2967	0.0362		2.2550	2.2550		2.0746	2.0746		3,845.0493	3,845.0493	1.1363		3,868.9106
Total	3.8407	44.0156	23.2967	0.0362		2.2550	2.2550		2.0746	2.0746		3,845.0493	3,845.0493	1.1363		3,868.9106

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
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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	0.0000	0.0000
Vendor	0.4758	4.9598	4.5318	8.6500e-003	0.2478	0.1052	0.3530	0.0707	0.0968	0.1674		885.2100	885.2100	9.5900e-003		885.4113
Worker	0.3694	0.5260	4.8547	5.9500e-003	0.5437	5.1700e-003	0.5489	0.1442	4.6200e-003	0.1488		530.4062	530.4062	0.0381		531.2056
Total	0.8452	5.4859	9.3865	0.0146	0.7915	0.1104	0.9019	0.2149	0.1014	0.3162		1,415.6162	1,415.6162	0.0477		1,416.6169

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	3.8407	44.0156	23.2967	0.0362		2.2550	2.2550		2.0746	2.0746	0.0000	3,845.0493	3,845.0493	1.1363		3,868.9106
Total	3.8407	44.0156	23.2967	0.0362		2.2550	2.2550		2.0746	2.0746	0.0000	3,845.0493	3,845.0493	1.1363		3,868.9106

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	0.4758	4.9598	4.5318	8.6500e-003	0.2008	0.1052	0.3060	0.0591	0.0968	0.1559		885.2100	885.2100	9.5900e-003		885.4113
Worker	0.3694	0.5260	4.8547	5.9500e-003	0.4209	5.1700e-003	0.4260	0.1141	4.6200e-003	0.1187		530.4062	530.4062	0.0381		531.2056

Total	0.8452	5.4859	9.3865	0.0146	0.6217	0.1104	0.7321	0.1732	0.1014	0.2746		1,415.6162	1,415.6162	0.0477		1,416.6169
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3.4 Architectural Coating - 2014

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	0.9656					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4462	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452		281.4481	281.4481	0.0401		282.2905
Total	1.4119	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452		281.4481	281.4481	0.0401		282.2905

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	0.0739	0.1052	0.9709	1.1900e-003	0.1088	1.0300e-003	0.1098	0.0288	9.2000e-004	0.0298		106.0812	106.0812	7.6100e-003		106.2411
Total	0.0739	0.1052	0.9709	1.1900e-003	0.1088	1.0300e-003	0.1098	0.0288	9.2000e-004	0.0298		106.0812	106.0812	7.6100e-003		106.2411

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	0.9656					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4462	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452	0.0000	281.4481	281.4481	0.0401		282.2905
Total	1.4119	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452	0.0000	281.4481	281.4481	0.0401		282.2905

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	0.0739	0.1052	0.9709	1.1900e-003	0.0842	1.0300e-003	0.0852	0.0228	9.2000e-004	0.0237		106.0812	106.0812	7.6100e-003		106.2411
Total	0.0739	0.1052	0.9709	1.1900e-003	0.0842	1.0300e-003	0.0852	0.0228	9.2000e-004	0.0237		106.0812	106.0812	7.6100e-003		106.2411

Cambria Sustainable Water Facility Project
San Luis Obispo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	3.00	130,680.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage includes area of pond

Construction Phase - schedule

Off-road Equipment -

Off-road Equipment - anticipated equipment

Off-road Equipment - anticipated equipment

Trips and VMT - Cut and fill balanced on site, no import or export. Distance is movement of material across the site.

Grading - 50 CY of cut and 50 CY of fill balanced on site plus additional for pipe trenching

Architectural Coating - Pre-engineered equipment containers will be painted. Field painting will be limited to process piping and misc. equipment.

Vehicle Trips - Project is not a trip generating land use.

Area Coating - Pre-engineered equipment containers will be painted. Field painting will be limited to process piping and misc. equipment.

Energy Use - based on total installed load of 375 kW for 3 acres (130,680 SF) over an entire year.

Construction Off-road Equipment Mitigation - per SLOAPCD rules

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	65,340.00	1,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	196,020.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	196020	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	220.00	91.00
tblConstructionPhase	NumDays	6.00	132.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	11/28/2014	11/14/2014
tblConstructionPhase	PhaseEndDate	2/3/2015	11/14/2014
tblConstructionPhase	PhaseStartDate	11/15/2014	11/1/2014
tblConstructionPhase	PhaseStartDate	10/21/2014	8/1/2014
tblEnergyUse	T24E	0.00	3.00
tblGrading	AcresOfGrading	0.00	3.00
tblGrading	MaterialExported	0.00	300.00
tblGrading	MaterialImported	0.00	300.00
tblLandUse	LandUseSquareFeet	0.00	130,680.00
tblLandUse	LotAcreage	0.00	3.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.10

2.0 Emissions Summary

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					
2014	0.3750	4.0300	2.6230	3.7100e-003	0.4412	0.1926	0.6339	0.2301	0.1773	0.4074	0.0000	350.3827	350.3827	0.0865	0.0000	352.1988
Total	0.3750	4.0300	2.6230	3.7100e-003	0.4412	0.1926	0.6339	0.2301	0.1773	0.4074	0.0000	350.3827	350.3827	0.0865	0.0000	352.1988

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					
2014	0.3750	4.0300	2.6230	3.7100e-003	0.2037	0.1926	0.3963	0.1027	0.1773	0.2800	0.0000	350.3824	350.3824	0.0865	0.0000	352.1985
Total	0.3750	4.0300	2.6230	3.7100e-003	0.2037	0.1926	0.3963	0.1027	0.1773	0.2800	0.0000	350.3824	350.3824	0.0865	0.0000	352.1985

	ROG	NOx	CO	SO2	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	53.84	0.00	37.48	55.38	0.00	31.27	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	Grading	Grading	5/20/2014	10/20/2014	6	132	
2	Building Construction	Building Construction	8/1/2014	11/14/2014	6	91	
3	Architectural Coating	Architectural Coating	11/1/2014	11/14/2014	6	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 1,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Skid Steer Loaders	1	8.00	64	0.37
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Excavators	1	8.00	162	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74

Building Construction	Other Construction Equipment	2	8.00	171	0.42
Building Construction	Rough Terrain Forklifts	1	6.00	100	0.40
Building Construction	Rubber Tired Loaders	1	6.00	255	0.40
Building Construction	Skid Steer Loaders	1	8.00	64	0.37
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Trenchers	1	6.00	80	0.50
Building Construction	Welders	0	8.00	46	0.45
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
Grading	4	10.00	0.00	38.00	13.00	13.00	0.10	LD_Mix	HDT_Mix	HHDT
Building Construction	8	55.00	21.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2014

Unmitigated Construction On-Site

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					

Fugitive Dust					0.3991	0.0000	0.3991	0.2187	0.0000	0.2187	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1509	1.7518	1.0826	1.3000e-003		0.0835	0.0835		0.0768	0.0768	0.0000	124.9993	124.9993	0.0369	0.0000	125.7750
Total	0.1509	1.7518	1.0826	1.3000e-003	0.3991	0.0835	0.4826	0.2187	0.0768	0.2955	0.0000	124.9993	124.9993	0.0369	0.0000	125.7750

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	2.9000e-004	5.9000e-004	3.9700e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0375	0.0375	0.0000	0.0000	0.0376
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	4.1500e-003	6.2100e-003	0.0569	7.0000e-005	6.3500e-003	6.0000e-005	6.4200e-003	1.6900e-003	6.0000e-005	1.7400e-003	0.0000	5.8204	5.8204	4.1000e-004	0.0000	5.8291
Total	4.4400e-003	6.8000e-003	0.0609	7.0000e-005	6.3500e-003	6.0000e-005	6.4300e-003	1.6900e-003	6.0000e-005	1.7400e-003	0.0000	5.8579	5.8579	4.1000e-004	0.0000	5.8667

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					0.1706	0.0000	0.1706	0.0935	0.0000	0.0935	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1509	1.7518	1.0826	1.3000e-003		0.0835	0.0835		0.0768	0.0768	0.0000	124.9992	124.9992	0.0369	0.0000	125.7749
Total	0.1509	1.7518	1.0826	1.3000e-003	0.1706	0.0835	0.2541	0.0935	0.0768	0.1703	0.0000	124.9992	124.9992	0.0369	0.0000	125.7749

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	2.9000e-004	5.9000e-004	3.9700e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0375	0.0375	0.0000	0.0000	0.0376
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	4.1500e-003	6.2100e-003	0.0569	7.0000e-005	4.9200e-003	6.0000e-005	4.9900e-003	1.3400e-003	6.0000e-005	1.3900e-003	0.0000	5.8204	5.8204	4.1000e-004	0.0000	5.8291
Total	4.4400e-003	6.8000e-003	0.0609	7.0000e-005	4.9200e-003	6.0000e-005	5.0000e-003	1.3400e-003	6.0000e-005	1.3900e-003	0.0000	5.8579	5.8579	4.1000e-004	0.0000	5.8667

3.3 Building Construction - 2014

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	0.1748	2.0027	1.0600	1.6500e-003		0.1026	0.1026		0.0944	0.0944	0.0000	158.7117	158.7117	0.0469	0.0000	159.6967
Total	0.1748	2.0027	1.0600	1.6500e-003		0.1026	0.1026		0.0944	0.0944	0.0000	158.7117	158.7117	0.0469	0.0000	159.6967

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
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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
Vendor	0.0204	0.2278	0.1864	3.9000e-004	0.0110	4.7600e-003	0.0158	3.1500e-003	4.3800e-003	7.5400e-003	0.0000	36.6308	36.6308	3.9000e-004	0.0000	36.6391
Worker	0.0157	0.0236	0.2159	2.7000e-004	0.0241	2.4000e-004	0.0243	6.4000e-003	2.1000e-004	6.6100e-003	0.0000	22.0690	22.0690	1.5700e-003	0.0000	22.1020
Total	0.0361	0.2514	0.4023	6.6000e-004	0.0351	5.0000e-003	0.0401	9.5500e-003	4.5900e-003	0.0142	0.0000	58.6998	58.6998	1.9600e-003	0.0000	58.7410

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	0.1748	2.0027	1.0600	1.6500e-003		0.1026	0.1026		0.0944	0.0944	0.0000	158.7116	158.7116	0.0469	0.0000	159.6965
Total	0.1748	2.0027	1.0600	1.6500e-003		0.1026	0.1026		0.0944	0.0944	0.0000	158.7116	158.7116	0.0469	0.0000	159.6965

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	0.0204	0.2278	0.1864	3.9000e-004	8.9600e-003	4.7600e-003	0.0137	2.6500e-003	4.3800e-003	7.0300e-003	0.0000	36.6308	36.6308	3.9000e-004	0.0000	36.6391
Worker	0.0157	0.0236	0.2159	2.7000e-004	0.0187	2.4000e-004	0.0189	5.0700e-003	2.1000e-004	5.2800e-003	0.0000	22.0690	22.0690	1.5700e-003	0.0000	22.1020

Total	0.0361	0.2514	0.4023	6.6000e-004	0.0276	5.0000e-003	0.0326	7.7200e-003	4.5900e-003	0.0123	0.0000	58.6998	58.6998	1.9600e-003	0.0000	58.7410
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3.4 Architectural Coating - 2014

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	5.7900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6800e-003	0.0167	0.0115	2.0000e-005		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	1.5320	1.5320	2.2000e-004	0.0000	1.5365
Total	8.4700e-003	0.0167	0.0115	2.0000e-005		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	1.5320	1.5320	2.2000e-004	0.0000	1.5365

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	4.2000e-004	6.2000e-004	5.6900e-003	1.0000e-005	6.4000e-004	1.0000e-005	6.4000e-004	1.7000e-004	1.0000e-005	1.7000e-004	0.0000	0.5820	0.5820	4.0000e-005	0.0000	0.5829
Total	4.2000e-004	6.2000e-004	5.6900e-003	1.0000e-005	6.4000e-004	1.0000e-005	6.4000e-004	1.7000e-004	1.0000e-005	1.7000e-004	0.0000	0.5820	0.5820	4.0000e-005	0.0000	0.5829

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	5.7900e-003						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	2.6800e-003	0.0167	0.0115	2.0000e-005			1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	1.5320	1.5320	2.2000e-004	0.0000	1.5365
Total	8.4700e-003	0.0167	0.0115	2.0000e-005			1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	1.5320	1.5320	2.2000e-004	0.0000	1.5365

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	4.2000e-004	6.2000e-004	5.6900e-003	1.0000e-005	4.9000e-004	1.0000e-005	5.0000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	0.5820	0.5820	4.0000e-005	0.0000	0.5829
Total	4.2000e-004	6.2000e-004	5.6900e-003	1.0000e-005	4.9000e-004	1.0000e-005	5.0000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	0.5820	0.5820	4.0000e-005	0.0000	0.5829

**Parenthetical CALEEMOD Assumptions
For: SWF Mitigation Measures (Project Modifications)
Date: July 2016**

CONSTRUCTION

Trenching (2016)

- 22 days.

Equipment:

Type	Quantity	Hours of Daily Operation
Excavators	2	8
Tractors/Loaders/Backhoes	2	8

Grading – Earthwork (2016)

- 44 days.
- 2,533 cubic yards of balanced cut and fill.
- 2,350 hauling trips.

Equipment:

Type	Quantity	Hours of Daily Operation
Excavators	1	4
Tractors/Loaders/Backhoes	1	4

SWF Mitigation Measures (Project Modifications)
San Luis Obispo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	3.00	130,680.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage includes area of pond

Construction Phase - schedule

Off-road Equipment -

Off-road Equipment - Earthwork for trenching

Off-road Equipment - Construction equipment for pipeline conveyance

Trips and VMT - 2,350 hauling trips assumed for evap pond brine disposal and evaporator discharge. Trenching trip length for balanced cut and fill based on 5,700 LF of pipeline conveyance.

Grading - 2,533 cubic yards of balanced cut and fill based on 5,700 LF, and 2-foot wide x 6-foot deep trench.

Architectural Coating - Pre-engineered equipment containers will be painted. Field painting will be limited to process piping and misc. equipment.

Vehicle Trips - Project is not a trip generating land use.

Area Coating - Pre-engineered equipment containers will be painted. Field painting will be limited to process piping and misc. equipment.

Construction Off-road Equipment Mitigation - per SLOAPCD rules

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	196020	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	PhaseEndDate	9/30/2016	10/1/2016
tblEnergyUse	T24E	0.00	3.00
tblGrading	AcresOfGrading	0.00	0.26
tblGrading	MaterialExported	0.00	2,533.00
tblGrading	MaterialImported	0.00	2,533.00
tblLandUse	LandUseSquareFeet	0.00	130,680.00
tblLandUse	LotAcreage	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.54
tblTripsAndVMT	HaulingTripLength	20.00	85.00
tblTripsAndVMT	HaulingTripNumber	317.00	2,350.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Trenching	9/1/2016	10/1/2016	5	22	
2	Grading - Earthwork	Grading	10/2/2016	12/1/2016	5	44	

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
Trenching	Excavators	2	8.00	162	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading - Earthwork	Excavators	1	4.00	162	0.38
Grading - Earthwork	Graders	0	8.00	174	0.41
Grading - Earthwork	Rubber Tired Dozers	0	8.00	255	0.40
Grading - Earthwork	Tractors/Loaders/Backhoes	1	4.00	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
Trenching	4	10.00	0.00	0.00	13.00	13.00	0.54	LD_Mix	HDT_Mix	HHDT
Grading - Earthwork	2	5.00	0.00	2,350.00	13.00	13.00	85.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Trenching - 2016

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	1.4575	15.3718	11.6821	0.0168		0.9373	0.9373		0.8623	0.8623		1,747.1908	1,747.1908	0.5270		1,758.2581
Total	1.4575	15.3718	11.6821	0.0168		0.9373	0.9373		0.8623	0.8623		1,747.1908	1,747.1908	0.5270		1,758.2581

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	0.0451	0.0641	0.6391	1.1300e-003	0.0989	7.8000e-004	0.0996	0.0262	7.0000e-004	0.0269		94.1437	94.1437	5.4300e-003		94.2578
Total	0.0451	0.0641	0.6391	1.1300e-003	0.0989	7.8000e-004	0.0996	0.0262	7.0000e-004	0.0269		94.1437	94.1437	5.4300e-003		94.2578

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	1.4575	15.3718	11.6821	0.0168		0.9373	0.9373		0.8623	0.8623	0.0000	1,747.1908	1,747.1908	0.5270		1,758.2581
Total	1.4575	15.3718	11.6821	0.0168		0.9373	0.9373		0.8623	0.8623	0.0000	1,747.1908	1,747.1908	0.5270		1,758.2581

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	0.0451	0.0641	0.6391	1.1300e-003	0.0989	7.8000e-004	0.0996	0.0262	7.0000e-004	0.0269		94.1437	94.1437	5.4300e-003		94.2578
Total	0.0451	0.0641	0.6391	1.1300e-003	0.0989	7.8000e-004	0.0996	0.0262	7.0000e-004	0.0269		94.1437	94.1437	5.4300e-003		94.2578

3.3 Grading - Earthwork - 2016
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					0.0275	0.0000	0.0275	3.8900e-003	0.0000	3.8900e-003			0.0000			0.0000
Off-Road	0.3644	3.8429	2.9205	4.2000e-003		0.2343	0.2343		0.2156	0.2156		436.7977	436.7977	0.1318		439.5645
Total	0.3644	3.8429	2.9205	4.2000e-003	0.0275	0.2343	0.2618	3.8900e-003	0.2156	0.2195		436.7977	436.7977	0.1318		439.5645

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	3.1468	67.1521	21.6576	0.1676	3.9450	0.9246	4.8695	1.0792	0.8505	1.9297		16,931.7265	16,931.7265	0.1126		16,934.0913
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	0.0226	0.0321	0.3196	5.6000e-004	0.0494	3.9000e-004	0.0498	0.0131	3.5000e-004	0.0135		47.0718	47.0718	2.7200e-003		47.1289
Total	3.1694	67.1842	21.9771	0.1682	3.9944	0.9250	4.9194	1.0923	0.8509	1.9432		16,978.7984	16,978.7984	0.1153		16,981.2202

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					0.0117	0.0000	0.0117	1.6600e-003	0.0000	1.6600e-003			0.0000			0.0000
Off-Road	0.3644	3.8429	2.9205	4.2000e-003		0.2343	0.2343		0.2156	0.2156	0.0000	436.7977	436.7977	0.1318		439.5645
Total	0.3644	3.8429	2.9205	4.2000e-003	0.0117	0.2343	0.2461	1.6600e-003	0.2156	0.2172	0.0000	436.7977	436.7977	0.1318		439.5645

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	3.1468	67.1521	21.6576	0.1676	3.9450	0.9246	4.8695	1.0792	0.8505	1.9297		16,931.7265	16,931.7265	0.1126		16,934.0913
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	0.0226	0.0321	0.3196	5.6000e-004	0.0494	3.9000e-004	0.0498	0.0131	3.5000e-004	0.0135		47.0718	47.0718	2.7200e-003		47.1289
Total	3.1694	67.1842	21.9771	0.1682	3.9944	0.9250	4.9194	1.0923	0.8509	1.9432		16,978.7984	16,978.7984	0.1153		16,981.2202

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	lb/day										lb/day					
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
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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	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
User Defined Industrial	13.00	13.00	13.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.455937	0.042338	0.214948	0.150714	0.068093	0.009944	0.017510	0.022507	0.002330	0.001401	0.008743	0.000855	0.004680

5.0 Energy Detail

4.4 Fleet Mix

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas 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

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					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	Natural Gas 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					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	3.0040	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	3.0040	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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	0.2074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	3.0040	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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					
Consumer Products	2.7966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Architectural Coating	0.2074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.0040	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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 Vegetation

SWF Mitigation Measures (Project Modifications)
San Luis Obispo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	3.00	130,680.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Acreage includes area of pond
 Construction Phase - schedule
 Off-road Equipment -
 Off-road Equipment - Earthwork for trenching
 Off-road Equipment - Construction equipment for pipeline conveyance
 Trips and VMT - 2,350 hauling trips assumed for evap pond brine disposal and evaporator discharge. Trenching trip length for balanced cut and fill based on 5,700 LF of pipeline conveyance.
 Grading - 2,533 cubic yards of balanced cut and fill based on 5,700 LF, and 2-foot wide x 6-foot deep trench.
 Architectural Coating - Pre-engineered equipment containers will be painted. Field painting will be limited to process piping and misc. equipment.
 Vehicle Trips - Project is not a trip generating land use.

Construction Off-road Equipment Mitigation - per SLOAPCD rules

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	196020	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	PhaseEndDate	9/30/2016	10/1/2016
tblEnergyUse	T24E	0.00	3.00
tblGrading	AcresOfGrading	0.00	0.26
tblGrading	MaterialExported	0.00	2,533.00
tblGrading	MaterialImported	0.00	2,533.00
tblLandUse	LandUseSquareFeet	0.00	130,680.00
tblLandUse	LotAcreage	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.54
tblTripsAndVMT	HaulingTripLength	20.00	85.00
tblTripsAndVMT	HaulingTripNumber	317.00	2,350.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Trenching	9/1/2016	10/1/2016	5	22	
2	Grading - Earthwork	Grading	10/2/2016	12/1/2016	5	44	

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
Trenching	Excavators	2	8.00	162	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading - Earthwork	Excavators	1	4.00	162	0.38
Grading - Earthwork	Graders	0	8.00	174	0.41
Grading - Earthwork	Rubber Tired Dozers	0	8.00	255	0.40
Grading - Earthwork	Tractors/Loaders/Backhoes	1	4.00	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
Trenching	4	10.00	0.00	0.00	13.00	13.00	0.54	LD_Mix	HDT_Mix	HHDT
Grading - Earthwork	2	5.00	0.00	2,350.00	13.00	13.00	85.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Trenching - 2016

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	1.4575	15.3718	11.6821	0.0168		0.9373	0.9373		0.8623	0.8623		1,747.1908	1,747.1908	0.5270		1,758.2581
Total	1.4575	15.3718	11.6821	0.0168		0.9373	0.9373		0.8623	0.8623		1,747.1908	1,747.1908	0.5270		1,758.2581

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	0.0485	0.0727	0.6481	1.0800e-003	0.0989	7.8000e-004	0.0996	0.0262	7.0000e-004	0.0269		89.7799	89.7799	5.4300e-003		89.8940
Total	0.0485	0.0727	0.6481	1.0800e-003	0.0989	7.8000e-004	0.0996	0.0262	7.0000e-004	0.0269		89.7799	89.7799	5.4300e-003		89.8940

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	1.4575	15.3718	11.6821	0.0168		0.9373	0.9373		0.8623	0.8623	0.0000	1,747.1908	1,747.1908	0.5270		1,758.2581
Total	1.4575	15.3718	11.6821	0.0168		0.9373	0.9373		0.8623	0.8623	0.0000	1,747.1908	1,747.1908	0.5270		1,758.2581

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	0.0485	0.0727	0.6481	1.0800e-003	0.0989	7.8000e-004	0.0996	0.0262	7.0000e-004	0.0269		89.7799	89.7799	5.4300e-003		89.8940
Total	0.0485	0.0727	0.6481	1.0800e-003	0.0989	7.8000e-004	0.0996	0.0262	7.0000e-004	0.0269		89.7799	89.7799	5.4300e-003		89.8940

3.3 Grading - Earthwork - 2016
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					0.0275	0.0000	0.0275	3.8900e-003	0.0000	3.8900e-003			0.0000			0.0000
Off-Road	0.3644	3.8429	2.9205	4.2000e-003		0.2343	0.2343		0.2156	0.2156		436.7977	436.7977	0.1318		439.5645
Total	0.3644	3.8429	2.9205	4.2000e-003	0.0275	0.2343	0.2618	3.8900e-003	0.2156	0.2195		436.7977	436.7977	0.1318		439.5645

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	3.3561	68.7830	25.8255	0.1676	3.9450	0.9254	4.8703	1.0792	0.8513	1.9304		16,922.2995	16,922.2995	0.1130		16,924.6721
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	0.0243	0.0363	0.3241	5.4000e-004	0.0494	3.9000e-004	0.0498	0.0131	3.5000e-004	0.0135		44.8900	44.8900	2.7200e-003		44.9470
Total	3.3804	68.8193	26.1495	0.1681	3.9944	0.9258	4.9201	1.0923	0.8516	1.9439		16,967.1895	16,967.1895	0.1157		16,969.6191

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					0.0117	0.0000	0.0117	1.6600e-003	0.0000	1.6600e-003			0.0000			0.0000
Off-Road	0.3644	3.8429	2.9205	4.2000e-003		0.2343	0.2343		0.2156	0.2156	0.0000	436.7977	436.7977	0.1318		439.5645
Total	0.3644	3.8429	2.9205	4.2000e-003	0.0117	0.2343	0.2461	1.6600e-003	0.2156	0.2172	0.0000	436.7977	436.7977	0.1318		439.5645

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	3.3561	68.7830	25.8255	0.1676	3.9450	0.9254	4.8703	1.0792	0.8513	1.9304		16,922.2995	16,922.2995	0.1130		16,924.6721
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	0.0243	0.0363	0.3241	5.4000e-004	0.0494	3.9000e-004	0.0498	0.0131	3.5000e-004	0.0135		44.8900	44.8900	2.7200e-003		44.9470
Total	3.3804	68.8193	26.1495	0.1681	3.9944	0.9258	4.9201	1.0923	0.8516	1.9439		16,967.1895	16,967.1895	0.1157		16,969.6191

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	lb/day										lb/day					
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
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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	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
User Defined Industrial	13.00	13.00	13.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.455937	0.042338	0.214948	0.150714	0.068093	0.009944	0.017510	0.022507	0.002330	0.001401	0.008743	0.000855	0.004680

5.0 Energy Detail

4.4 Fleet Mix

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas 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

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					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	Natural Gas 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					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	3.0040	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	3.0040	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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	0.2074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	3.0040	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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	0.2074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	3.0040	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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 Vegetation

SWF Mitigation Measures (Project Modifications)
San Luis Obispo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	3.00	130,680.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage includes area of pond

Construction Phase - schedule

Off-road Equipment -

Off-road Equipment - Earthwork for trenching

Off-road Equipment - Construction equipment for pipeline conveyance

Trips and VMT - 2,350 hauling trips assumed for evap pond brine disposal and evaporator discharge. Trenching trip length for balanced cut and fill based on 5,700 LF of pipeline conveyance.
 Grading - 2,533 cubic yards of balanced cut and fill based on 5,700 LF, and 2-foot wide x 6-foot deep trench.

Architectural Coating - Pre-engineered equipment containers will be painted. Field painting will be limited to process piping and misc. equipment.

Vehicle Trips - Project is not a trip generating land use.

Area Coating - Pre-engineered equipment containers will be painted. Field painting will be limited to process piping and misc. equipment.

Construction Off-road Equipment Mitigation - per SLOAPCD rules

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	196020	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	PhaseEndDate	9/30/2016	10/1/2016
tblEnergyUse	T24E	0.00	3.00
tblGrading	AcresOfGrading	0.00	0.26
tblGrading	MaterialExported	0.00	2,533.00
tblGrading	MaterialImported	0.00	2,533.00
tblLandUse	LandUseSquareFeet	0.00	130,680.00
tblLandUse	LotAcreage	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.54
tblTripsAndVMT	HaulingTripLength	20.00	85.00
tblTripsAndVMT	HaulingTripNumber	317.00	2,350.00

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	0.5482	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	114.0489	114.0489	5.1600e-003	1.0700e-003	114.4880
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	0.5482	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	114.0490	114.0490	5.1600e-003	1.0700e-003	114.4880

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	0.5482	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	114.0489	114.0489	5.1600e-003	1.0700e-003	114.4880
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	0.5482	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	114.0490	114.0490	5.1600e-003	1.0700e-003	114.4880

	ROG	NOx	CO	SO2	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	Trenching	Trenching	9/1/2016	10/1/2016	5	22	
2	Grading - Earthwork	Grading	10/2/2016	12/1/2016	5	44	

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
Trenching	Excavators	2	8.00	162	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading - Earthwork	Excavators	1	4.00	162	0.38
Grading - Earthwork	Graders	0	8.00	174	0.41
Grading - Earthwork	Rubber Tired Dozers	0	8.00	255	0.40
Grading - Earthwork	Tractors/Loaders/Backhoes	1	4.00	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
Trenching	4	10.00	0.00	0.00	13.00	13.00	0.54	LD_Mix	HDT_Mix	HHDT
Grading - Earthwork	2	5.00	0.00	2,350.00	13.00	13.00	85.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Trenching - 2016

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	0.0160	0.1691	0.1285	1.8000e-004		0.0103	0.0103		9.4900e-003	9.4900e-003	0.0000	17.4353	17.4353	5.2600e-003	0.0000	17.5457
Total	0.0160	0.1691	0.1285	1.8000e-004		0.0103	0.0103		9.4900e-003	9.4900e-003	0.0000	17.4353	17.4353	5.2600e-003	0.0000	17.5457

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	5.0000e-004	7.9000e-004	7.0000e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9032	0.9032	5.0000e-005	0.0000	0.9043
Total	5.0000e-004	7.9000e-004	7.0000e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9032	0.9032	5.0000e-005	0.0000	0.9043

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	0.0160	0.1691	0.1285	1.8000e-004		0.0103	0.0103		9.4900e-003	9.4900e-003	0.0000	17.4353	17.4353	5.2600e-003	0.0000	17.5457
Total	0.0160	0.1691	0.1285	1.8000e-004		0.0103	0.0103		9.4900e-003	9.4900e-003	0.0000	17.4353	17.4353	5.2600e-003	0.0000	17.5457

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	5.0000e-004	7.9000e-004	7.0000e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9032	0.9032	5.0000e-005	0.0000	0.9043
Total	5.0000e-004	7.9000e-004	7.0000e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9032	0.9032	5.0000e-005	0.0000	0.9043

3.3 Grading - Earthwork - 2016

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					6.0000e-004	0.0000	6.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0200e-003	0.0845	0.0643	9.0000e-005		5.1600e-003	5.1600e-003		4.7400e-003	4.7400e-003	0.0000	8.7176	8.7176	2.6300e-003	0.0000	8.7729
Total	8.0200e-003	0.0845	0.0643	9.0000e-005	6.0000e-004	5.1600e-003	5.7600e-003	9.0000e-005	4.7400e-003	4.8300e-003	0.0000	8.7176	8.7176	2.6300e-003	0.0000	8.7729

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	0.0718	1.5261	0.5333	3.6900e-003	0.0848	0.0204	0.1052	0.0233	0.0187	0.0420	0.0000	337.8455	337.8455	2.2500e-003	0.0000	337.8927
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	5.0000e-004	7.9000e-004	7.0000e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9032	0.9032	5.0000e-005	0.0000	0.9043
Total	0.0723	1.5269	0.5403	3.7000e-003	0.0859	0.0204	0.1062	0.0235	0.0187	0.0423	0.0000	338.7486	338.7486	2.3000e-003	0.0000	338.7970

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					2.6000e-004	0.0000	2.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0200e-003	0.0845	0.0643	9.0000e-005		5.1600e-003	5.1600e-003		4.7400e-003	4.7400e-003	0.0000	8.7176	8.7176	2.6300e-003	0.0000	8.7729
Total	8.0200e-003	0.0845	0.0643	9.0000e-005	2.6000e-004	5.1600e-003	5.4200e-003	4.0000e-005	4.7400e-003	4.7800e-003	0.0000	8.7176	8.7176	2.6300e-003	0.0000	8.7729

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	392040	114.0489	5.1600e-003	1.0700e-003	114.4880
Total		114.0489	5.1600e-003	1.0700e-003	114.4880

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	392040	114.0489	5.1600e-003	1.0700e-003	114.4880
Total		114.0489	5.1600e-003	1.0700e-003	114.4880

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	0.5482	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.5482	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005

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	0.0379					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Total	0.5482	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005

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	0.0379						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5104						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	2.0000e-005	0.0000			0.0000	0.0000		0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Total	0.5482	0.0000	2.0000e-005	0.0000			0.0000	0.0000		0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005

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			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	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			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	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			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	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

Operational Energy Calculations

AWTP

1,227	MWh/yr ¹
3	MWh/day ¹

Evaporation System

262	MWh/yr ¹
1	MWh/day ¹

		CO ₂	CH ₄	CH ₄ (CO ₂ eq)	N ₂ O	N ₂ O (CO ₂ eq)	Total MTCO ₂ eq
GHG Emissions Factors	lb/MWh ²	630.80	0.03	--	0.01	--	--
	MT/MWh	0.29	1.32E-05	--	2.72E-06	--	--
Emissions - AWTP	MT/yr	74.97	0.00	0.09	0.00	0.21	75.26
Emissions - Evaporation System	MT/yr	351.08	0.02	0.40	0.00	1.00	352.48
Total		426.04	0.02	0.49	0.00	1.21	427.74

Notes:

1. Assumes the system operates continuously for six months (24 hours per day, 7 days/per week).
2. Based on intensity factors for Southern California Edison (as provided in CalEEMod).

		ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Emissions Factor (lbs/MWh)		0.01	0.27	0.20	0.12	0.09	0.06
Emissions - AWTP	lb/day	0.01	0.19	0.14	0.09	0.06	0.04
Emissions - Evaporation System	lb/day	0.03	0.91	0.67	0.40	0.30	0.20
Total		0.04	1.10	0.82	0.49	0.37	0.24

Criteria emissions based on emissions factors from the EPA eGrid Database and the California Energy Commission, *Reference Appendices for the 2008 Building Energy Efficiency Standards for Residential and Nonresidential Buildings*, revised June 2009.

Operational Energy and Mobile Calculations

SWTP

1,284
4 MWh/yr¹
MWh/day¹

		CO ₂	CH ₄	CH ₄ (CO ₂ eq)	N ₂ O	N ₂ O (CO ₂ eq)	Total MTCO ₂ eq
GHG Emissions Factors	lb/MWh ²	630.80	0.03	--	0.01	--	--
	MT/MWh	0.29	1.32E-05	--	2.72E-06	--	--
Emissions - SWTP	MT/yr	367.44	0.02	0.42	0.00	1.04	368.90

Notes:

1. Assumes the system operates continuously for six months (24 hours per day, 7 days/per week).
2. Based on intensity factors for Southern California Edison (as provided in CalEEMod).

		ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Emissions Factor (lbs/MWh)		0.01	0.27	0.20	0.12	0.09	0.06
Emissions - SWTP	lb/day	0.04	0.95	0.70	0.42	0.32	0.21

Criteria emissions based on emissions factors from the EPA eGrid Database and the California Energy Commission, *Reference Appendices for the 2008 Building Energy Efficiency Standards for Residential and Nonresidential Buildings*, revised June 2009.

SWTP Operational Truck Trips - Brine Disposal

21,600 gpd
6,000 gallon water truck
4 trips per day
8 round trips
85 miles to disposal site
680 miles per day (round trips)
15 Idle minutes

		ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}	CO ₂
Emissions Factor	(g/mile)	0.67	13.74	2.53	--	0.37	0.35	1,769.88
Truck Emissions - Brine Disposal	g/day	455.93	9,342.86	1,719.70	0.00	250.81	239.96	1,203,515.63
	lbs/day	1.01	20.60	3.79	0.00	0.55	0.53	2,653.30
	tons/year	--	--	--	--	--	--	484.23
	MT/year	--	--	--	--	--	--	439.28
Idle Emissions Assume 15 minutes idling (900	(g/sec)	3.21E-04	3.69E-03	1.08E-03	--	4.98E-05	4.77E-05	3.20E-01
	lbs/day	6.37E-04	7.32E-03	2.14E-03	--	9.89E-05	9.46E-05	6.36E-01
Total Truck Emissions	lbs/day	1.01	20.60	3.79	--	0.55	0.53	2,653.93
	tons/year	--	--	--	--	--	--	484.34
	MT/year	--	--	--	--	--	--	439.39

Total Operational Emissions (lbs/day)

Energy Consumption

AWTP		0.01	0.19	0.14	0.09	0.06	0.04
SWTP		0.04	0.95	0.70	0.42	0.32	0.21
Truck		1.01	20.60	3.79	0.00	0.55	0.53
Total		1.05	21.75	4.64	0.51	0.93	0.78