

Appendix B

CalEEMod Emissions Calculations

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Calleguas Lindero Pump Station Project AQ

Ventura County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project is in Thousand Oaks, Ventura County

Land Use - Site area is approximately 0.66-acres

Construction Phase - Applicant provided construction schedule. Construction would occur from May 2022-May 2023 BUT the schedule is shorter since it excludes time for obtaining equipment and startup/testing

Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

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Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

Trips and VMT -

Demolition - Approximated building sf and pump removal area using google earth

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Grading - Import and export 1,000 cubic yards

Architectural Coating - Included the entire area of the pump station for architectural coating

Area Coating - Included entire area of pump station for architectural coating

Construction Off-road Equipment Mitigation - Applicant provided BMPs

Stationary Sources - Emergency Generators and Fire Pumps - Diesel engine would be tested for a total of 20 hours per year. For daily usage, the maximum 20 hours was divided by 365 days.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	1,725.00	19,870.00
tblAreaCoating	Area_Parking	1725	19870
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	15.00
tblConstructionPhase	NumDays	100.00	150.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	5.00	15.00
tblConstructionPhase	NumDays	1.00	15.00
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	1,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	4,332.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.05
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	20.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

2.0 Emissions Summary

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2022	2.5066	21.4780	24.0354	0.0456	0.5713	1.1042	1.2366	0.1521	1.0557	1.0916	0.0000	4,327.0334	4,327.0334	0.8446	0.2641	4,353.6440
2023	6.4333	19.8941	23.9198	0.0455	0.2054	0.9791	1.1116	0.0545	0.9355	0.9714	0.0000	4,322.3936	4,322.3936	0.8353	0.0176	4,348.5105
Maximum	6.4333	21.4780	24.0354	0.0456	0.5713	1.1042	1.2366	0.1521	1.0557	1.0916	0.0000	4,327.0334	4,327.0334	0.8446	0.2641	4,353.6440

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					
2022	2.5066	21.4780	24.0354	0.0456	0.5558	1.1042	1.2366	0.1498	1.0557	1.0916	0.0000	4,327.0334	4,327.0334	0.8446	0.2641	4,353.6440
2023	6.4333	19.8941	23.9198	0.0455	0.2054	0.9791	1.1116	0.0545	0.9355	0.9714	0.0000	4,322.3936	4,322.3936	0.8353	0.0176	4,348.5105
Maximum	6.4333	21.4780	24.0354	0.0456	0.5558	1.1042	1.2366	0.1498	1.0557	1.0916	0.0000	4,327.0334	4,327.0334	0.8446	0.2641	4,353.6440

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	1.99	0.00	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	lb/day										lb/day					
Area	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004
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
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
Stationary	0.3838	1.7167	0.9788	1.8400e-003		0.0565	0.0565		0.0565	0.0565		196.3859	196.3859	0.0275		197.0742
Total	0.4193	1.7167	0.9789	1.8400e-003	0.0000	0.0565	0.0565	0.0000	0.0565	0.0565		196.3860	196.3860	0.0275	0.0000	197.0744

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004
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
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
Stationary	0.3838	1.7167	0.9788	1.8400e-003		0.0565	0.0565		0.0565	0.0565		196.3859	196.3859	0.0275		197.0742
Total	0.4193	1.7167	0.9789	1.8400e-003	0.0000	0.0565	0.0565	0.0000	0.0565	0.0565		196.3860	196.3860	0.0275	0.0000	197.0744

	ROG	NOx	CO	SO2	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	Demolition	Demolition	5/2/2022	5/20/2022	5	15	
2	Site Preparation	Site Preparation	5/21/2022	6/10/2022	5	15	
3	Grading	Grading	6/11/2022	6/24/2022	5	10	
4	Building Construction	Building Construction	6/25/2022	1/20/2023	5	150	

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5	Paving	Paving	1/21/2023	2/10/2023	5	15
6	Architectural Coating	Architectural Coating	2/11/2023	3/3/2023	5	15

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 19,870 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.00	63	0.31
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Excavators	1	6.00	158	0.38
Demolition	Generator Sets	1	6.00	84	0.74
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Aerial Lifts	1	6.00	63	0.31
Site Preparation	Concrete/Industrial Saws	1	6.00	81	0.73
Site Preparation	Generator Sets	1	6.00	84	0.74
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Generator Sets	1	6.00	84	0.74
Grading	Graders	0	6.00	187	0.41
Grading	Plate Compactors	1	6.00	8	0.43
Grading	Rollers	1	6.00	80	0.38
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Grading	Sweepers/Scrubbers	1	6.00	64	0.46
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37

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Building Construction	Aerial Lifts	1	6.00	63	0.31
Building Construction	Air Compressors	1	6.00	78	0.48
Building Construction	Bore/Drill Rigs	1	6.00	221	0.50
Building Construction	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	6.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Excavators	1	6.00	158	0.38
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Plate Compactors	1	6.00	8	0.43
Building Construction	Pressure Washers	1	6.00	13	0.30
Building Construction	Pumps	1	6.00	84	0.74
Building Construction	Sweepers/Scrubbers	1	6.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Trenchers	1	6.00	78	0.50
Building Construction	Welders	1	6.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Concrete/Industrial Saws	1	6.00	81	0.73
Paving	Generator Sets	1	6.00	84	0.74
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Plate Compactors	1	6.00	8	0.43
Paving	Rollers	1	6.00	80	0.38
Paving	Rubber Tired Loaders	1	6.00	203	0.36
Paving	Surfacing Equipment	1	6.00	263	0.30
Paving	Sweepers/Scrubbers	1	6.00	64	0.46
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Aerial Lifts	1	6.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48

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Architectural Coating	Generator Sets	1	6.00	84	0.74
Architectural Coating	Pressure Washers	1	6.00	13	0.30

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
Demolition	5	13.00	0.00	20.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	12.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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					0.2884	0.0000	0.2884	0.0437	0.0000	0.0437			0.0000			0.0000
Off-Road	0.8182	7.3067	10.4458	0.0171		0.3626	0.3626		0.3515	0.3515		1,634.6800	1,634.6800	0.2803		1,641.6862
Total	0.8182	7.3067	10.4458	0.0171	0.2884	0.3626	0.6510	0.0437	0.3515	0.3951		1,634.6800	1,634.6800	0.2803		1,641.6862

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	4.5800e-003	0.2093	0.0496	7.9000e-004	0.0233	1.7100e-003	0.0250	6.3800e-003	1.6300e-003	8.0100e-003		87.5374	87.5374	5.5800e-003	0.0139	91.8272
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
Worker	0.0433	0.0304	0.3540	9.0000e-004	0.1068	6.1000e-004	0.1074	0.0283	5.6000e-004	0.0289		91.6124	91.6124	3.2900e-003	2.9200e-003	92.5649
Total	0.0479	0.2397	0.4036	1.6900e-003	0.1301	2.3200e-003	0.1324	0.0347	2.1900e-003	0.0369		179.1498	179.1498	8.8700e-003	0.0169	184.3920

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3.2 Demolition - 2022

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					0.1298	0.0000	0.1298	0.0197	0.0000	0.0197			0.0000			0.0000
Off-Road	0.8182	7.3067	10.4458	0.0171		0.3626	0.3626		0.3515	0.3515	0.0000	1,634.6800	1,634.6800	0.2803		1,641.6862
Total	0.8182	7.3067	10.4458	0.0171	0.1298	0.3626	0.4924	0.0197	0.3515	0.3711	0.0000	1,634.6800	1,634.6800	0.2803		1,641.6862

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	4.5800e-003	0.2093	0.0496	7.9000e-004	0.0233	1.7100e-003	0.0250	6.3800e-003	1.6300e-003	8.0100e-003		87.5374	87.5374	5.5800e-003	0.0139	91.8272
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
Worker	0.0433	0.0304	0.3540	9.0000e-004	0.1068	6.1000e-004	0.1074	0.0283	5.6000e-004	0.0289		91.6124	91.6124	3.2900e-003	2.9200e-003	92.5649
Total	0.0479	0.2397	0.4036	1.6900e-003	0.1301	2.3200e-003	0.1324	0.0347	2.1900e-003	0.0369		179.1498	179.1498	8.8700e-003	0.0169	184.3920

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6664	5.9740	8.0044	0.0132		0.2982	0.2982		0.2922	0.2922		1,259.6685	1,259.6685	0.1590		1,263.6426
Total	0.6664	5.9740	8.0044	0.0132	0.0000	0.2982	0.2982	0.0000	0.2922	0.2922		1,259.6685	1,259.6685	0.1590		1,263.6426

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	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
Worker	0.0333	0.0234	0.2723	6.9000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		70.4711	70.4711	2.5300e-003	2.2500e-003	71.2037
Total	0.0333	0.0234	0.2723	6.9000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		70.4711	70.4711	2.5300e-003	2.2500e-003	71.2037

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3.3 Site Preparation - 2022

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6664	5.9740	8.0044	0.0132		0.2982	0.2982		0.2922	0.2922	0.0000	1,259.668 5	1,259.668 5	0.1590		1,263.642 6
Total	0.6664	5.9740	8.0044	0.0132	0.0000	0.2982	0.2982	0.0000	0.2922	0.2922	0.0000	1,259.668 5	1,259.668 5	0.1590		1,263.642 6

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
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
Worker	0.0333	0.0234	0.2723	6.9000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		70.4711	70.4711	2.5300e-003	2.2500e-003	71.2037
Total	0.0333	0.0234	0.2723	6.9000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		70.4711	70.4711	2.5300e-003	2.2500e-003	71.2037

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

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					0.0281	0.0000	0.0281	4.2600e-003	0.0000	4.2600e-003			0.0000			0.0000
Off-Road	0.6709	6.2880	7.4263	0.0115		0.3501	0.3501		0.3315	0.3315		1,094.2749	1,094.2749	0.2193		1,099.7575
Total	0.6709	6.2880	7.4263	0.0115	0.0281	0.3501	0.3782	4.2600e-003	0.3315	0.3357		1,094.2749	1,094.2749	0.2193		1,099.7575

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	0.0860	3.9235	0.9299	0.0149	0.4364	0.0320	0.4684	0.1195	0.0307	0.1502		1,641.3253	1,641.3253	0.1046	0.2611	1,721.7593
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
Worker	0.0433	0.0304	0.3540	9.0000e-004	0.1068	6.1000e-004	0.1074	0.0283	5.6000e-004	0.0289		91.6124	91.6124	3.2900e-003	2.9200e-003	92.5649
Total	0.1293	3.9540	1.2839	0.0158	0.5432	0.0326	0.5758	0.1479	0.0312	0.1791		1,732.9377	1,732.9377	0.1079	0.2641	1,814.3242

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

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					0.0127	0.0000	0.0127	1.9200e-003	0.0000	1.9200e-003			0.0000			0.0000
Off-Road	0.6709	6.2880	7.4263	0.0115		0.3501	0.3501		0.3315	0.3315	0.0000	1,094.2749	1,094.2749	0.2193		1,099.7575
Total	0.6709	6.2880	7.4263	0.0115	0.0127	0.3501	0.3627	1.9200e-003	0.3315	0.3334	0.0000	1,094.2749	1,094.2749	0.2193		1,099.7575

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	0.0860	3.9235	0.9299	0.0149	0.4364	0.0320	0.4684	0.1195	0.0307	0.1502		1,641.3253	1,641.3253	0.1046	0.2611	1,721.7593
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
Worker	0.0433	0.0304	0.3540	9.0000e-004	0.1068	6.1000e-004	0.1074	0.0283	5.6000e-004	0.0289		91.6124	91.6124	3.2900e-003	2.9200e-003	92.5649
Total	0.1293	3.9540	1.2839	0.0158	0.5432	0.0326	0.5758	0.1479	0.0312	0.1791		1,732.9377	1,732.9377	0.1079	0.2641	1,814.3242

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4583	21.2001	23.6301	0.0438		1.1009	1.1009		1.0526	1.0526		4,137.5298	4,137.5298	0.8374		4,158.4658
Total	2.4583	21.2001	23.6301	0.0438		1.1009	1.1009		1.0526	1.0526		4,137.5298	4,137.5298	0.8374		4,158.4658

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	0.0000
Vendor	8.2300e-003	0.2498	0.0786	9.7000e-004	0.0338	2.7500e-003	0.0366	9.7400e-003	2.6300e-003	0.0124		104.9383	104.9383	4.1500e-003	0.0157	109.7337
Worker	0.0400	0.0281	0.3267	8.3000e-004	0.0986	5.7000e-004	0.0991	0.0262	5.2000e-004	0.0267		84.5653	84.5653	3.0300e-003	2.7000e-003	85.4445
Total	0.0482	0.2779	0.4053	1.8000e-003	0.1324	3.3200e-003	0.1357	0.0359	3.1500e-003	0.0390		189.5036	189.5036	7.1800e-003	0.0184	195.1782

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4583	21.2001	23.6301	0.0438		1.1009	1.1009		1.0526	1.0526	0.0000	4,137.5298	4,137.5298	0.8374		4,158.4658
Total	2.4583	21.2001	23.6301	0.0438		1.1009	1.1009		1.0526	1.0526	0.0000	4,137.5298	4,137.5298	0.8374		4,158.4658

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
Vendor	8.2300e-003	0.2498	0.0786	9.7000e-004	0.0338	2.7500e-003	0.0366	9.7400e-003	2.6300e-003	0.0124		104.9383	104.9383	4.1500e-003	0.0157	109.7337
Worker	0.0400	0.0281	0.3267	8.3000e-004	0.0986	5.7000e-004	0.0991	0.0262	5.2000e-004	0.0267		84.5653	84.5653	3.0300e-003	2.7000e-003	85.4445
Total	0.0482	0.2779	0.4053	1.8000e-003	0.1324	3.3200e-003	0.1357	0.0359	3.1500e-003	0.0390		189.5036	189.5036	7.1800e-003	0.0184	195.1782

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3056	19.6713	23.5479	0.0438		0.9775	0.9775		0.9340	0.9340		4,139.4156	4,139.4156	0.8284		4,160.1259
Total	2.3056	19.6713	23.5479	0.0438		0.9775	0.9775		0.9340	0.9340		4,139.4156	4,139.4156	0.8284		4,160.1259

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	0.0000
Vendor	4.7800e-003	0.1978	0.0695	9.3000e-004	0.0338	1.1300e-003	0.0350	9.7400e-003	1.0800e-003	0.0108		100.6212	100.6212	4.1200e-003	0.0151	105.2142
Worker	0.0373	0.0250	0.3025	8.0000e-004	0.0986	5.3000e-004	0.0991	0.0262	4.9000e-004	0.0266		82.3568	82.3568	2.7500e-003	2.5000e-003	83.1704
Total	0.0421	0.2228	0.3719	1.7300e-003	0.1324	1.6600e-003	0.1341	0.0359	1.5700e-003	0.0375		182.9780	182.9780	6.8700e-003	0.0176	188.3846

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3056	19.6713	23.5479	0.0438		0.9775	0.9775		0.9340	0.9340	0.0000	4,139.4156	4,139.4156	0.8284		4,160.1259
Total	2.3056	19.6713	23.5479	0.0438		0.9775	0.9775		0.9340	0.9340	0.0000	4,139.4156	4,139.4156	0.8284		4,160.1259

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
Vendor	4.7800e-003	0.1978	0.0695	9.3000e-004	0.0338	1.1300e-003	0.0350	9.7400e-003	1.0800e-003	0.0108		100.6212	100.6212	4.1200e-003	0.0151	105.2142
Worker	0.0373	0.0250	0.3025	8.0000e-004	0.0986	5.3000e-004	0.0991	0.0262	4.9000e-004	0.0266		82.3568	82.3568	2.7500e-003	2.5000e-003	83.1704
Total	0.0421	0.2228	0.3719	1.7300e-003	0.1324	1.6600e-003	0.1341	0.0359	1.5700e-003	0.0375		182.9780	182.9780	6.8700e-003	0.0176	188.3846

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2023

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	1.4872	13.9474	16.5808	0.0326		0.6542	0.6542		0.6179	0.6179		3,121.3794	3,121.3794	0.7514		3,140.1646
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4872	13.9474	16.5808	0.0326		0.6542	0.6542		0.6179	0.6179		3,121.3794	3,121.3794	0.7514		3,140.1646

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	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
Worker	0.0777	0.0521	0.6301	1.6800e-003	0.2054	1.1100e-003	0.2065	0.0545	1.0200e-003	0.0555		171.5767	171.5767	5.7300e-003	5.2100e-003	173.2718
Total	0.0777	0.0521	0.6301	1.6800e-003	0.2054	1.1100e-003	0.2065	0.0545	1.0200e-003	0.0555		171.5767	171.5767	5.7300e-003	5.2100e-003	173.2718

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2023

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	1.4872	13.9474	16.5808	0.0326		0.6542	0.6542		0.6179	0.6179	0.0000	3,121.3794	3,121.3794	0.7514		3,140.1646
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4872	13.9474	16.5808	0.0326		0.6542	0.6542		0.6179	0.6179	0.0000	3,121.3794	3,121.3794	0.7514		3,140.1646

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
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
Worker	0.0777	0.0521	0.6301	1.6800e-003	0.2054	1.1100e-003	0.2065	0.0545	1.0200e-003	0.0555		171.5767	171.5767	5.7300e-003	5.2100e-003	173.2718
Total	0.0777	0.0521	0.6301	1.6800e-003	0.2054	1.1100e-003	0.2065	0.0545	1.0200e-003	0.0555		171.5767	171.5767	5.7300e-003	5.2100e-003	173.2718

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

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	6.1398					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2873	2.6608	3.7520	6.6100e-003		0.1127	0.1127		0.1122	0.1122		618.5583	618.5583	0.0628		620.1293
Total	6.4271	2.6608	3.7520	6.6100e-003		0.1127	0.1127		0.1122	0.1122		618.5583	618.5583	0.0628		620.1293

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	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
Worker	6.2100e-003	4.1700e-003	0.0504	1.3000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003		13.7261	13.7261	4.6000e-004	4.2000e-004	13.8617
Total	6.2100e-003	4.1700e-003	0.0504	1.3000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003		13.7261	13.7261	4.6000e-004	4.2000e-004	13.8617

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

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	6.1398					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2873	2.6608	3.7520	6.6100e-003		0.1127	0.1127		0.1122	0.1122	0.0000	618.5583	618.5583	0.0628		620.1293
Total	6.4271	2.6608	3.7520	6.6100e-003		0.1127	0.1127		0.1122	0.1122	0.0000	618.5583	618.5583	0.0628		620.1293

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
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
Worker	6.2100e-003	4.1700e-003	0.0504	1.3000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003		13.7261	13.7261	4.6000e-004	4.2000e-004	13.8617
Total	6.2100e-003	4.1700e-003	0.0504	1.3000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003		13.7261	13.7261	4.6000e-004	4.2000e-004	13.8617

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	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
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.543528	0.058189	0.173108	0.133952	0.027894	0.007577	0.011427	0.006062	0.000688	0.000393	0.029232	0.000646	0.007304

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	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					
Other Non-Asphalt Surfaces	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

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

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					
Other Non-Asphalt Surfaces	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	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004
Unmitigated	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004
Total	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004
Total	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-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 Stationary Equipment

Fire Pumps and Emergency Generators

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.054	20	4332	0.73	Diesel

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	0.3838	1.7167	0.9788	1.8400e-003		0.0565	0.0565		0.0565	0.0565		196.3859	196.3859	0.0275		197.0742
Total	0.3838	1.7167	0.9788	1.8400e-003		0.0565	0.0565		0.0565	0.0565		196.3859	196.3859	0.0275		197.0742

11.0 Vegetation

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Calleguas Lindero Pump Station Project AQ

Ventura County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project is in Thousand Oaks, Ventura County

Land Use - Site area is approximately 0.66-acres

Construction Phase - Applicant provided construction schedule. Construction would occur from May 2022-May 2023 BUT the schedule is shorter since it excludes time for obtaining equipment and startup/testing

Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

Trips and VMT -

Demolition - Approximated building sf and pump removal area using google earth

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading - Import and export 1,000 cubic yards

Architectural Coating - Included the entire area of the pump station for architectural coating

Area Coating - Included entire area of pump station for architectural coating

Construction Off-road Equipment Mitigation - Applicant provided BMPs

Stationary Sources - Emergency Generators and Fire Pumps - Diesel engine would be tested for a total of 20 hours per year. For daily usage, the maximum 20 hours was divided by 365 days.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	1,725.00	19,870.00
tblAreaCoating	Area_Parking	1725	19870
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	15.00
tblConstructionPhase	NumDays	100.00	150.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	5.00	15.00
tblConstructionPhase	NumDays	1.00	15.00
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	1,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	4,332.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.05
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	20.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

2.0 Emissions Summary

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2022	2.5038	21.4644	24.0397	0.0456	0.5713	1.1042	1.2366	0.1521	1.0557	1.0916	0.0000	4,330.818 ₉	4,330.818 ₉	0.8444	0.2637	4,357.336 ₉
2023	6.4328	19.8821	23.9233	0.0456	0.2054	0.9791	1.1116	0.0545	0.9355	0.9714	0.0000	4,325.974 ₈	4,325.974 ₈	0.8351	0.0173	4,352.001 ₇
Maximum	6.4328	21.4644	24.0397	0.0456	0.5713	1.1042	1.2366	0.1521	1.0557	1.0916	0.0000	4,330.818₉	4,330.818₉	0.8444	0.2637	4,357.336₉

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					
2022	2.5038	21.4644	24.0397	0.0456	0.5558	1.1042	1.2366	0.1498	1.0557	1.0916	0.0000	4,330.818 ₉	4,330.818 ₉	0.8444	0.2637	4,357.336 ₉
2023	6.4328	19.8821	23.9233	0.0456	0.2054	0.9791	1.1116	0.0545	0.9355	0.9714	0.0000	4,325.974 ₈	4,325.974 ₈	0.8351	0.0173	4,352.001 ₆
Maximum	6.4328	21.4644	24.0397	0.0456	0.5558	1.1042	1.2366	0.1498	1.0557	1.0916	0.0000	4,330.818₉	4,330.818₉	0.8444	0.2637	4,357.336₉

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	1.99	0.00	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	lb/day										lb/day					
Area	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004
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
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
Stationary	0.3838	1.7167	0.9788	1.8400e-003		0.0565	0.0565		0.0565	0.0565		196.3859	196.3859	0.0275		197.0742
Total	0.4193	1.7167	0.9789	1.8400e-003	0.0000	0.0565	0.0565	0.0000	0.0565	0.0565		196.3860	196.3860	0.0275	0.0000	197.0744

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Area	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004
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
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
Stationary	0.3838	1.7167	0.9788	1.8400e-003		0.0565	0.0565		0.0565	0.0565		196.3859	196.3859	0.0275		197.0742
Total	0.4193	1.7167	0.9789	1.8400e-003	0.0000	0.0565	0.0565	0.0000	0.0565	0.0565		196.3860	196.3860	0.0275	0.0000	197.0744

	ROG	NOx	CO	SO2	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	Demolition	Demolition	5/2/2022	5/20/2022	5	15	
2	Site Preparation	Site Preparation	5/21/2022	6/10/2022	5	15	
3	Grading	Grading	6/11/2022	6/24/2022	5	10	
4	Building Construction	Building Construction	6/25/2022	1/20/2023	5	150	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Paving	Paving	1/21/2023	2/10/2023	5	15
6	Architectural Coating	Architectural Coating	2/11/2023	3/3/2023	5	15

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 19,870 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.00	63	0.31
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Excavators	1	6.00	158	0.38
Demolition	Generator Sets	1	6.00	84	0.74
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Aerial Lifts	1	6.00	63	0.31
Site Preparation	Concrete/Industrial Saws	1	6.00	81	0.73
Site Preparation	Generator Sets	1	6.00	84	0.74
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Generator Sets	1	6.00	84	0.74
Grading	Graders	0	6.00	187	0.41
Grading	Plate Compactors	1	6.00	8	0.43
Grading	Rollers	1	6.00	80	0.38
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Grading	Sweepers/Scrubbers	1	6.00	64	0.46
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Aerial Lifts	1	6.00	63	0.31
Building Construction	Air Compressors	1	6.00	78	0.48
Building Construction	Bore/Drill Rigs	1	6.00	221	0.50
Building Construction	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	6.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Excavators	1	6.00	158	0.38
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Plate Compactors	1	6.00	8	0.43
Building Construction	Pressure Washers	1	6.00	13	0.30
Building Construction	Pumps	1	6.00	84	0.74
Building Construction	Sweepers/Scrubbers	1	6.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Trenchers	1	6.00	78	0.50
Building Construction	Welders	1	6.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Concrete/Industrial Saws	1	6.00	81	0.73
Paving	Generator Sets	1	6.00	84	0.74
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Plate Compactors	1	6.00	8	0.43
Paving	Rollers	1	6.00	80	0.38
Paving	Rubber Tired Loaders	1	6.00	203	0.36
Paving	Surfacing Equipment	1	6.00	263	0.30
Paving	Sweepers/Scrubbers	1	6.00	64	0.46
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Aerial Lifts	1	6.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Architectural Coating	Generator Sets	1	6.00	84	0.74
Architectural Coating	Pressure Washers	1	6.00	13	0.30

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
Demolition	5	13.00	0.00	20.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	12.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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					0.2884	0.0000	0.2884	0.0437	0.0000	0.0437			0.0000			0.0000
Off-Road	0.8182	7.3067	10.4458	0.0171		0.3626	0.3626		0.3515	0.3515		1,634.6800	1,634.6800	0.2803		1,641.6862
Total	0.8182	7.3067	10.4458	0.0171	0.2884	0.3626	0.6510	0.0437	0.3515	0.3951		1,634.6800	1,634.6800	0.2803		1,641.6862

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	4.7300e-003	0.2012	0.0488	7.9000e-004	0.0233	1.7000e-003	0.0250	6.3800e-003	1.6300e-003	8.0100e-003		87.5056	87.5056	5.5900e-003	0.0139	91.7939
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
Worker	0.0402	0.0260	0.3614	9.4000e-004	0.1068	6.1000e-004	0.1074	0.0283	5.6000e-004	0.0289		95.7670	95.7670	3.0200e-003	2.6300e-003	96.6251
Total	0.0449	0.2272	0.4102	1.7300e-003	0.1301	2.3100e-003	0.1324	0.0347	2.1900e-003	0.0369		183.2725	183.2725	8.6100e-003	0.0166	188.4190

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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					0.1298	0.0000	0.1298	0.0197	0.0000	0.0197			0.0000			0.0000
Off-Road	0.8182	7.3067	10.4458	0.0171		0.3626	0.3626		0.3515	0.3515	0.0000	1,634.680 0	1,634.680 0	0.2803		1,641.686 2
Total	0.8182	7.3067	10.4458	0.0171	0.1298	0.3626	0.4924	0.0197	0.3515	0.3711	0.0000	1,634.680 0	1,634.680 0	0.2803		1,641.686 2

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	4.7300e-003	0.2012	0.0488	7.9000e-004	0.0233	1.7000e-003	0.0250	6.3800e-003	1.6300e-003	8.0100e-003		87.5056	87.5056	5.5900e-003	0.0139	91.7939
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
Worker	0.0402	0.0260	0.3614	9.4000e-004	0.1068	6.1000e-004	0.1074	0.0283	5.6000e-004	0.0289		95.7670	95.7670	3.0200e-003	2.6300e-003	96.6251
Total	0.0449	0.2272	0.4102	1.7300e-003	0.1301	2.3100e-003	0.1324	0.0347	2.1900e-003	0.0369		183.2725	183.2725	8.6100e-003	0.0166	188.4190

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6664	5.9740	8.0044	0.0132		0.2982	0.2982		0.2922	0.2922		1,259.6685	1,259.6685	0.1590		1,263.6426
Total	0.6664	5.9740	8.0044	0.0132	0.0000	0.2982	0.2982	0.0000	0.2922	0.2922		1,259.6685	1,259.6685	0.1590		1,263.6426

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	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
Worker	0.0309	0.0200	0.2780	7.2000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		73.6669	73.6669	2.3300e-003	2.0200e-003	74.3270
Total	0.0309	0.0200	0.2780	7.2000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		73.6669	73.6669	2.3300e-003	2.0200e-003	74.3270

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6664	5.9740	8.0044	0.0132		0.2982	0.2982		0.2922	0.2922	0.0000	1,259.6685	1,259.6685	0.1590		1,263.6426
Total	0.6664	5.9740	8.0044	0.0132	0.0000	0.2982	0.2982	0.0000	0.2922	0.2922	0.0000	1,259.6685	1,259.6685	0.1590		1,263.6426

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
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
Worker	0.0309	0.0200	0.2780	7.2000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		73.6669	73.6669	2.3300e-003	2.0200e-003	74.3270
Total	0.0309	0.0200	0.2780	7.2000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		73.6669	73.6669	2.3300e-003	2.0200e-003	74.3270

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

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					0.0281	0.0000	0.0281	4.2600e-003	0.0000	4.2600e-003			0.0000			0.0000
Off-Road	0.6709	6.2880	7.4263	0.0115		0.3501	0.3501		0.3315	0.3315		1,094.2749	1,094.2749	0.2193		1,099.7575
Total	0.6709	6.2880	7.4263	0.0115	0.0281	0.3501	0.3782	4.2600e-003	0.3315	0.3357		1,094.2749	1,094.2749	0.2193		1,099.7575

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	0.0886	3.7732	0.9149	0.0149	0.4364	0.0320	0.4684	0.1195	0.0306	0.1501		1,640.7290	1,640.7290	0.1048	0.2610	1,721.1359
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
Worker	0.0402	0.0260	0.3614	9.4000e-004	0.1068	6.1000e-004	0.1074	0.0283	5.6000e-004	0.0289		95.7670	95.7670	3.0200e-003	2.6300e-003	96.6251
Total	0.1288	3.7992	1.2763	0.0158	0.5432	0.0326	0.5758	0.1479	0.0311	0.1790		1,736.4960	1,736.4960	0.1078	0.2637	1,817.7610

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

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					0.0127	0.0000	0.0127	1.9200e-003	0.0000	1.9200e-003			0.0000			0.0000
Off-Road	0.6709	6.2880	7.4263	0.0115		0.3501	0.3501		0.3315	0.3315	0.0000	1,094.2749	1,094.2749	0.2193		1,099.7575
Total	0.6709	6.2880	7.4263	0.0115	0.0127	0.3501	0.3627	1.9200e-003	0.3315	0.3334	0.0000	1,094.2749	1,094.2749	0.2193		1,099.7575

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	0.0886	3.7732	0.9149	0.0149	0.4364	0.0320	0.4684	0.1195	0.0306	0.1501		1,640.7290	1,640.7290	0.1048	0.2610	1,721.1359
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
Worker	0.0402	0.0260	0.3614	9.4000e-004	0.1068	6.1000e-004	0.1074	0.0283	5.6000e-004	0.0289		95.7670	95.7670	3.0200e-003	2.6300e-003	96.6251
Total	0.1288	3.7992	1.2763	0.0158	0.5432	0.0326	0.5758	0.1479	0.0311	0.1790		1,736.4960	1,736.4960	0.1078	0.2637	1,817.7610

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4583	21.2001	23.6301	0.0438		1.1009	1.1009		1.0526	1.0526		4,137.5298	4,137.5298	0.8374		4,158.4658
Total	2.4583	21.2001	23.6301	0.0438		1.1009	1.1009		1.0526	1.0526		4,137.5298	4,137.5298	0.8374		4,158.4658

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	0.0000
Vendor	8.3500e-003	0.2403	0.0760	9.7000e-004	0.0338	2.7400e-003	0.0366	9.7400e-003	2.6200e-003	0.0124		104.8888	104.8888	4.1600e-003	0.0157	109.6788
Worker	0.0371	0.0240	0.3336	8.7000e-004	0.0986	5.7000e-004	0.0991	0.0262	5.2000e-004	0.0267		88.4003	88.4003	2.7900e-003	2.4200e-003	89.1924
Total	0.0455	0.2642	0.4096	1.8400e-003	0.1324	3.3100e-003	0.1357	0.0359	3.1400e-003	0.0390		193.2891	193.2891	6.9500e-003	0.0181	198.8712

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4583	21.2001	23.6301	0.0438		1.1009	1.1009		1.0526	1.0526	0.0000	4,137.5298	4,137.5298	0.8374		4,158.4658
Total	2.4583	21.2001	23.6301	0.0438		1.1009	1.1009		1.0526	1.0526	0.0000	4,137.5298	4,137.5298	0.8374		4,158.4658

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
Vendor	8.3500e-003	0.2403	0.0760	9.7000e-004	0.0338	2.7400e-003	0.0366	9.7400e-003	2.6200e-003	0.0124		104.8888	104.8888	4.1600e-003	0.0157	109.6788
Worker	0.0371	0.0240	0.3336	8.7000e-004	0.0986	5.7000e-004	0.0991	0.0262	5.2000e-004	0.0267		88.4003	88.4003	2.7900e-003	2.4200e-003	89.1924
Total	0.0455	0.2642	0.4096	1.8400e-003	0.1324	3.3100e-003	0.1357	0.0359	3.1400e-003	0.0390		193.2891	193.2891	6.9500e-003	0.0181	198.8712

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3056	19.6713	23.5479	0.0438		0.9775	0.9775		0.9340	0.9340		4,139.4156	4,139.4156	0.8284		4,160.1259
Total	2.3056	19.6713	23.5479	0.0438		0.9775	0.9775		0.9340	0.9340		4,139.4156	4,139.4156	0.8284		4,160.1259

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	0.0000
Vendor	4.9600e-003	0.1894	0.0673	9.3000e-004	0.0338	1.1300e-003	0.0350	9.7400e-003	1.0800e-003	0.0108		100.4773	100.4773	4.1300e-003	0.0150	105.0608
Worker	0.0345	0.0213	0.3081	8.4000e-004	0.0986	5.3000e-004	0.0991	0.0262	4.9000e-004	0.0266		86.0818	86.0818	2.5300e-003	2.2500e-003	86.8150
Total	0.0395	0.2108	0.3754	1.7700e-003	0.1324	1.6600e-003	0.1341	0.0359	1.5700e-003	0.0375		186.5591	186.5591	6.6600e-003	0.0173	191.8758

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3056	19.6713	23.5479	0.0438		0.9775	0.9775		0.9340	0.9340	0.0000	4,139.4156	4,139.4156	0.8284		4,160.1259
Total	2.3056	19.6713	23.5479	0.0438		0.9775	0.9775		0.9340	0.9340	0.0000	4,139.4156	4,139.4156	0.8284		4,160.1259

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
Vendor	4.9600e-003	0.1894	0.0673	9.3000e-004	0.0338	1.1300e-003	0.0350	9.7400e-003	1.0800e-003	0.0108		100.4773	100.4773	4.1300e-003	0.0150	105.0608
Worker	0.0345	0.0213	0.3081	8.4000e-004	0.0986	5.3000e-004	0.0991	0.0262	4.9000e-004	0.0266		86.0818	86.0818	2.5300e-003	2.2500e-003	86.8150
Total	0.0395	0.2108	0.3754	1.7700e-003	0.1324	1.6600e-003	0.1341	0.0359	1.5700e-003	0.0375		186.5591	186.5591	6.6600e-003	0.0173	191.8758

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2023

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	1.4872	13.9474	16.5808	0.0326		0.6542	0.6542		0.6179	0.6179		3,121.3794	3,121.3794	0.7514		3,140.1646
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4872	13.9474	16.5808	0.0326		0.6542	0.6542		0.6179	0.6179		3,121.3794	3,121.3794	0.7514		3,140.1646

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	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
Worker	0.0719	0.0445	0.6419	1.7500e-003	0.2054	1.1100e-003	0.2065	0.0545	1.0200e-003	0.0555		179.3371	179.3371	5.2600e-003	4.6800e-003	180.8645
Total	0.0719	0.0445	0.6419	1.7500e-003	0.2054	1.1100e-003	0.2065	0.0545	1.0200e-003	0.0555		179.3371	179.3371	5.2600e-003	4.6800e-003	180.8645

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2023

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	1.4872	13.9474	16.5808	0.0326		0.6542	0.6542		0.6179	0.6179	0.0000	3,121.3794	3,121.3794	0.7514		3,140.1646
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4872	13.9474	16.5808	0.0326		0.6542	0.6542		0.6179	0.6179	0.0000	3,121.3794	3,121.3794	0.7514		3,140.1646

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
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
Worker	0.0719	0.0445	0.6419	1.7500e-003	0.2054	1.1100e-003	0.2065	0.0545	1.0200e-003	0.0555		179.3371	179.3371	5.2600e-003	4.6800e-003	180.8645
Total	0.0719	0.0445	0.6419	1.7500e-003	0.2054	1.1100e-003	0.2065	0.0545	1.0200e-003	0.0555		179.3371	179.3371	5.2600e-003	4.6800e-003	180.8645

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

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	6.1398					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2873	2.6608	3.7520	6.6100e-003		0.1127	0.1127		0.1122	0.1122		618.5583	618.5583	0.0628		620.1293
Total	6.4271	2.6608	3.7520	6.6100e-003		0.1127	0.1127		0.1122	0.1122		618.5583	618.5583	0.0628		620.1293

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	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
Worker	5.7500e-003	3.5600e-003	0.0514	1.4000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003		14.3470	14.3470	4.2000e-004	3.7000e-004	14.4692
Total	5.7500e-003	3.5600e-003	0.0514	1.4000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003		14.3470	14.3470	4.2000e-004	3.7000e-004	14.4692

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

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	6.1398					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2873	2.6608	3.7520	6.6100e-003		0.1127	0.1127		0.1122	0.1122	0.0000	618.5583	618.5583	0.0628		620.1293
Total	6.4271	2.6608	3.7520	6.6100e-003		0.1127	0.1127		0.1122	0.1122	0.0000	618.5583	618.5583	0.0628		620.1293

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
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
Worker	5.7500e-003	3.5600e-003	0.0514	1.4000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003		14.3470	14.3470	4.2000e-004	3.7000e-004	14.4692
Total	5.7500e-003	3.5600e-003	0.0514	1.4000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003		14.3470	14.3470	4.2000e-004	3.7000e-004	14.4692

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	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
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.543528	0.058189	0.173108	0.133952	0.027894	0.007577	0.011427	0.006062	0.000688	0.000393	0.029232	0.000646	0.007304

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	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					
Other Non-Asphalt Surfaces	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

Calleguas Lindero Pump Station Project AQ - Ventura County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	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	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004
Unmitigated	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004
Total	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-004
Total	0.0354	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.4000e-004	1.4000e-004	0.0000		1.5000e-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 Stationary Equipment

Fire Pumps and Emergency Generators

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.054	20	4332	0.73	Diesel

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	0.3838	1.7167	0.9788	1.8400e-003		0.0565	0.0565		0.0565	0.0565		196.3859	196.3859	0.0275		197.0742
Total	0.3838	1.7167	0.9788	1.8400e-003		0.0565	0.0565		0.0565	0.0565		196.3859	196.3859	0.0275		197.0742

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Calleguas Lindero Pump Station Project AQ

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project is in Thousand Oaks, Ventura County

Land Use - Site area is approximately 0.66-acres

Construction Phase - Applicant provided construction schedule. Construction would occur from May 2022-May 2023 BUT the schedule is shorter since it excludes time for obtaining equipment and startup/testing

Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

Off-road Equipment - Applicant provided equipment

Trips and VMT -

Demolition - Approximated building sf and pump removal area using google earth

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading - Import and export 1,000 cubic yards

Architectural Coating - Included the entire area of the pump station for architectural coating

Area Coating - Included entire area of pump station for architectural coating

Construction Off-road Equipment Mitigation - Applicant provided BMPs

Stationary Sources - Emergency Generators and Fire Pumps - Diesel engine would be tested for a total of 20 hours per year. For daily usage, the maximum 20 hours was divided by 365 days.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	1,725.00	19,870.00
tblAreaCoating	Area_Parking	1725	19870
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	15.00
tblConstructionPhase	NumDays	100.00	150.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	5.00	15.00
tblConstructionPhase	NumDays	1.00	15.00
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	1,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	4,332.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.05
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	20.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2022	0.1847	1.6025	1.8089	3.4600e-003	0.0153	0.0814	0.0967	3.8800e-003	0.0779	0.0818	0.0000	299.2253	299.2253	0.0563	2.4500e-003	301.3621
2023	0.0775	0.2742	0.3369	6.5000e-004	2.6100e-003	0.0131	0.0157	7.0000e-004	0.0125	0.0132	0.0000	56.1283	56.1283	0.0113	1.6000e-004	56.4565
Maximum	0.1847	1.6025	1.8089	3.4600e-003	0.0153	0.0814	0.0967	3.8800e-003	0.0779	0.0818	0.0000	299.2253	299.2253	0.0563	2.4500e-003	301.3621

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					
2022	0.1847	1.6025	1.8089	3.4600e-003	0.0141	0.0814	0.0955	3.6900e-003	0.0779	0.0816	0.0000	299.2249	299.2249	0.0563	2.4500e-003	301.3618
2023	0.0775	0.2742	0.3369	6.5000e-004	2.6100e-003	0.0131	0.0157	7.0000e-004	0.0125	0.0132	0.0000	56.1283	56.1283	0.0113	1.6000e-004	56.4564
Maximum	0.1847	1.6025	1.8089	3.4600e-003	0.0141	0.0814	0.0955	3.6900e-003	0.0779	0.0816	0.0000	299.2249	299.2249	0.0563	2.4500e-003	301.3618

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	7.08	0.00	1.13	4.15	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-2-2022	8-1-2022	0.4869	0.4869
2	8-2-2022	11-1-2022	0.7877	0.7877
3	11-2-2022	2-1-2023	0.7395	0.7395
4	2-2-2023	5-1-2023	0.1183	0.1183
		Highest	0.7877	0.7877

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	6.4600e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
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
Stationary	0.0711	0.3179	0.1813	3.4000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	32.9923	32.9923	4.6300e-003	0.0000	33.1079
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	0.0775	0.3179	0.1813	3.4000e-004	0.0000	0.0105	0.0105	0.0000	0.0105	0.0105	0.0000	32.9923	32.9923	4.6300e-003	0.0000	33.1079

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.4600e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
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
Stationary	0.0711	0.3179	0.1813	3.4000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	32.9923	32.9923	4.6300e-003	0.0000	33.1079
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	0.0775	0.3179	0.1813	3.4000e-004	0.0000	0.0105	0.0105	0.0000	0.0105	0.0105	0.0000	32.9923	32.9923	4.6300e-003	0.0000	33.1079

	ROG	NOx	CO	SO2	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	Demolition	Demolition	5/2/2022	5/20/2022	5	15	
2	Site Preparation	Site Preparation	5/21/2022	6/10/2022	5	15	

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3	Grading	Grading	6/11/2022	6/24/2022	5	10
4	Building Construction	Building Construction	6/25/2022	1/20/2023	5	150
5	Paving	Paving	1/21/2023	2/10/2023	5	15
6	Architectural Coating	Architectural Coating	2/11/2023	3/3/2023	5	15

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 19,870 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	6.00	63	0.31
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Excavators	1	6.00	158	0.38
Demolition	Generator Sets	1	6.00	84	0.74
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Aerial Lifts	1	6.00	63	0.31
Site Preparation	Concrete/Industrial Saws	1	6.00	81	0.73
Site Preparation	Generator Sets	1	6.00	84	0.74
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Generator Sets	1	6.00	84	0.74
Grading	Graders	0	6.00	187	0.41
Grading	Plate Compactors	1	6.00	8	0.43
Grading	Rollers	1	6.00	80	0.38
Grading	Rubber Tired Dozers	0	6.00	247	0.40

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Grading	Sweepers/Scrubbers	1	6.00	64	0.46
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Aerial Lifts	1	6.00	63	0.31
Building Construction	Air Compressors	1	6.00	78	0.48
Building Construction	Bore/Drill Rigs	1	6.00	221	0.50
Building Construction	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	6.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Excavators	1	6.00	158	0.38
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Plate Compactors	1	6.00	8	0.43
Building Construction	Pressure Washers	1	6.00	13	0.30
Building Construction	Pumps	1	6.00	84	0.74
Building Construction	Sweepers/Scrubbers	1	6.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Trenchers	1	6.00	78	0.50
Building Construction	Welders	1	6.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Concrete/Industrial Saws	1	6.00	81	0.73
Paving	Generator Sets	1	6.00	84	0.74
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Plate Compactors	1	6.00	8	0.43
Paving	Rollers	1	6.00	80	0.38
Paving	Rubber Tired Loaders	1	6.00	203	0.36
Paving	Surfacing Equipment	1	6.00	263	0.30
Paving	Sweepers/Scrubbers	1	6.00	64	0.46
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37

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Architectural Coating	Aerial Lifts	1	6.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48
Architectural Coating	Generator Sets	1	6.00	84	0.74
Architectural Coating	Pressure Washers	1	6.00	13	0.30

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
Demolition	5	13.00	0.00	20.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	12.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Demolition - 2022

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					2.1600e-003	0.0000	2.1600e-003	3.3000e-004	0.0000	3.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1400e-003	0.0548	0.0783	1.3000e-004		2.7200e-003	2.7200e-003		2.6400e-003	2.6400e-003	0.0000	11.1222	11.1222	1.9100e-003	0.0000	11.1698
Total	6.1400e-003	0.0548	0.0783	1.3000e-004	2.1600e-003	2.7200e-003	4.8800e-003	3.3000e-004	2.6400e-003	2.9700e-003	0.0000	11.1222	11.1222	1.9100e-003	0.0000	11.1698

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	3.0000e-005	1.5700e-003	3.7000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5955	0.5955	4.0000e-005	9.0000e-005	0.6247
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.2000e-004	2.6200e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6278	0.6278	2.0000e-005	2.0000e-005	0.6341
Total	3.3000e-004	1.7900e-003	2.9900e-003	2.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.2232	1.2232	6.0000e-005	1.1000e-004	1.2587

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3.2 Demolition - 2022

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					9.7000e-004	0.0000	9.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1400e-003	0.0548	0.0783	1.3000e-004		2.7200e-003	2.7200e-003		2.6400e-003	2.6400e-003	0.0000	11.1222	11.1222	1.9100e-003	0.0000	11.1698
Total	6.1400e-003	0.0548	0.0783	1.3000e-004	9.7000e-004	2.7200e-003	3.6900e-003	1.5000e-004	2.6400e-003	2.7900e-003	0.0000	11.1222	11.1222	1.9100e-003	0.0000	11.1698

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	3.0000e-005	1.5700e-003	3.7000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5955	0.5955	4.0000e-005	9.0000e-005	0.6247
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.2000e-004	2.6200e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6278	0.6278	2.0000e-005	2.0000e-005	0.6341
Total	3.3000e-004	1.7900e-003	2.9900e-003	2.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.2232	1.2232	6.0000e-005	1.1000e-004	1.2587

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3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0000e-003	0.0448	0.0600	1.0000e-004		2.2400e-003	2.2400e-003		2.1900e-003	2.1900e-003	0.0000	8.5706	8.5706	1.0800e-003	0.0000	8.5977
Total	5.0000e-003	0.0448	0.0600	1.0000e-004	0.0000	2.2400e-003	2.2400e-003	0.0000	2.1900e-003	2.1900e-003	0.0000	8.5706	8.5706	1.0800e-003	0.0000	8.5977

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	2.3000e-004	1.7000e-004	2.0200e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4829	0.4829	2.0000e-005	1.0000e-005	0.4878
Total	2.3000e-004	1.7000e-004	2.0200e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4829	0.4829	2.0000e-005	1.0000e-005	0.4878

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3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0000e-003	0.0448	0.0600	1.0000e-004		2.2400e-003	2.2400e-003		2.1900e-003	2.1900e-003	0.0000	8.5706	8.5706	1.0800e-003	0.0000	8.5977
Total	5.0000e-003	0.0448	0.0600	1.0000e-004	0.0000	2.2400e-003	2.2400e-003	0.0000	2.1900e-003	2.1900e-003	0.0000	8.5706	8.5706	1.0800e-003	0.0000	8.5977

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	2.3000e-004	1.7000e-004	2.0200e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4829	0.4829	2.0000e-005	1.0000e-005	0.4878
Total	2.3000e-004	1.7000e-004	2.0200e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4829	0.4829	2.0000e-005	1.0000e-005	0.4878

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3.4 Grading - 2022

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					1.4000e-004	0.0000	1.4000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3500e-003	0.0314	0.0371	6.0000e-005		1.7500e-003	1.7500e-003		1.6600e-003	1.6600e-003	0.0000	4.9636	4.9636	9.9000e-004	0.0000	4.9884
Total	3.3500e-003	0.0314	0.0371	6.0000e-005	1.4000e-004	1.7500e-003	1.8900e-003	2.0000e-005	1.6600e-003	1.6800e-003	0.0000	4.9636	4.9636	9.9000e-004	0.0000	4.9884

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	4.4000e-004	0.0197	4.6000e-003	7.0000e-005	2.1500e-003	1.6000e-004	2.3100e-003	5.9000e-004	1.5000e-004	7.4000e-004	0.0000	7.4434	7.4434	4.7000e-004	1.1800e-003	7.8081
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	2.0000e-004	1.5000e-004	1.7500e-003	0.0000	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4185	0.4185	1.0000e-005	1.0000e-005	0.4227
Total	6.4000e-004	0.0198	6.3500e-003	7.0000e-005	2.6700e-003	1.6000e-004	2.8400e-003	7.3000e-004	1.5000e-004	8.8000e-004	0.0000	7.8619	7.8619	4.8000e-004	1.1900e-003	8.2308

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3.4 Grading - 2022

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					6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3500e-003	0.0314	0.0371	6.0000e-005		1.7500e-003	1.7500e-003		1.6600e-003	1.6600e-003	0.0000	4.9635	4.9635	9.9000e-004	0.0000	4.9884
Total	3.3500e-003	0.0314	0.0371	6.0000e-005	6.0000e-005	1.7500e-003	1.8100e-003	1.0000e-005	1.6600e-003	1.6700e-003	0.0000	4.9635	4.9635	9.9000e-004	0.0000	4.9884

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	4.4000e-004	0.0197	4.6000e-003	7.0000e-005	2.1500e-003	1.6000e-004	2.3100e-003	5.9000e-004	1.5000e-004	7.4000e-004	0.0000	7.4434	7.4434	4.7000e-004	1.1800e-003	7.8081
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	2.0000e-004	1.5000e-004	1.7500e-003	0.0000	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4185	0.4185	1.0000e-005	1.0000e-005	0.4227
Total	6.4000e-004	0.0198	6.3500e-003	7.0000e-005	2.6700e-003	1.6000e-004	2.8400e-003	7.3000e-004	1.5000e-004	8.8000e-004	0.0000	7.8619	7.8619	4.8000e-004	1.1900e-003	8.2308

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3.5 Building Construction - 2022

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	0.1659	1.4310	1.5950	2.9500e-003		0.0743	0.0743		0.0711	0.0711	0.0000	253.3615	253.3615	0.0513	0.0000	254.6435
Total	0.1659	1.4310	1.5950	2.9500e-003		0.0743	0.0743		0.0711	0.0711	0.0000	253.3615	253.3615	0.0513	0.0000	254.6435

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	5.6000e-004	0.0169	5.2000e-003	7.0000e-005	2.2500e-003	1.9000e-004	2.4300e-003	6.5000e-004	1.8000e-004	8.3000e-004	0.0000	6.4241	6.4241	2.5000e-004	9.6000e-004	6.7177
Worker	2.4900e-003	1.8300e-003	0.0218	6.0000e-005	6.5300e-003	4.0000e-005	6.5700e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	5.2153	5.2153	1.8000e-004	1.6000e-004	5.2677
Total	3.0500e-003	0.0187	0.0270	1.3000e-004	8.7800e-003	2.3000e-004	9.0000e-003	2.3800e-003	2.2000e-004	2.6000e-003	0.0000	11.6394	11.6394	4.3000e-004	1.1200e-003	11.9854

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3.5 Building Construction - 2022

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	0.1659	1.4310	1.5950	2.9500e-003		0.0743	0.0743		0.0711	0.0711	0.0000	253.3612	253.3612	0.0513	0.0000	254.6432
Total	0.1659	1.4310	1.5950	2.9500e-003		0.0743	0.0743		0.0711	0.0711	0.0000	253.3612	253.3612	0.0513	0.0000	254.6432

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	5.6000e-004	0.0169	5.2000e-003	7.0000e-005	2.2500e-003	1.9000e-004	2.4300e-003	6.5000e-004	1.8000e-004	8.3000e-004	0.0000	6.4241	6.4241	2.5000e-004	9.6000e-004	6.7177
Worker	2.4900e-003	1.8300e-003	0.0218	6.0000e-005	6.5300e-003	4.0000e-005	6.5700e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	5.2153	5.2153	1.8000e-004	1.6000e-004	5.2677
Total	3.0500e-003	0.0187	0.0270	1.3000e-004	8.7800e-003	2.3000e-004	9.0000e-003	2.3800e-003	2.2000e-004	2.6000e-003	0.0000	11.6394	11.6394	4.3000e-004	1.1200e-003	11.9854

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3.5 Building Construction - 2023

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	0.0173	0.1475	0.1766	3.3000e-004		7.3300e-003	7.3300e-003		7.0000e-003	7.0000e-003	0.0000	28.1641	28.1641	5.6400e-003	0.0000	28.3050
Total	0.0173	0.1475	0.1766	3.3000e-004		7.3300e-003	7.3300e-003		7.0000e-003	7.0000e-003	0.0000	28.1641	28.1641	5.6400e-003	0.0000	28.3050

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	4.0000e-005	1.4800e-003	5.1000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6841	0.6841	3.0000e-005	1.0000e-004	0.7153
Worker	2.6000e-004	1.8000e-004	2.2400e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5643	0.5643	2.0000e-005	2.0000e-005	0.5697
Total	3.0000e-004	1.6600e-003	2.7500e-003	2.0000e-005	9.8000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.8000e-004	0.0000	1.2484	1.2484	5.0000e-005	1.2000e-004	1.2850

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3.5 Building Construction - 2023

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	0.0173	0.1475	0.1766	3.3000e-004		7.3300e-003	7.3300e-003		7.0000e-003	7.0000e-003	0.0000	28.1641	28.1641	5.6400e-003	0.0000	28.3050
Total	0.0173	0.1475	0.1766	3.3000e-004		7.3300e-003	7.3300e-003		7.0000e-003	7.0000e-003	0.0000	28.1641	28.1641	5.6400e-003	0.0000	28.3050

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	4.0000e-005	1.4800e-003	5.1000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6841	0.6841	3.0000e-005	1.0000e-004	0.7153
Worker	2.6000e-004	1.8000e-004	2.2400e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5643	0.5643	2.0000e-005	2.0000e-005	0.5697
Total	3.0000e-004	1.6600e-003	2.7500e-003	2.0000e-005	9.8000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.8000e-004	0.0000	1.2484	1.2484	5.0000e-005	1.2000e-004	1.2850

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3.6 Paving - 2023

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	0.0112	0.1046	0.1244	2.4000e-004		4.9100e-003	4.9100e-003		4.6300e-003	4.6300e-003	0.0000	21.2375	21.2375	5.1100e-003	0.0000	21.3653
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0112	0.1046	0.1244	2.4000e-004		4.9100e-003	4.9100e-003		4.6300e-003	4.6300e-003	0.0000	21.2375	21.2375	5.1100e-003	0.0000	21.3653

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	5.4000e-004	3.8000e-004	4.6700e-003	1.0000e-005	1.5100e-003	1.0000e-005	1.5200e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1757	1.1757	4.0000e-005	3.0000e-005	1.1869
Total	5.4000e-004	3.8000e-004	4.6700e-003	1.0000e-005	1.5100e-003	1.0000e-005	1.5200e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1757	1.1757	4.0000e-005	3.0000e-005	1.1869

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3.6 Paving - 2023

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	0.0112	0.1046	0.1244	2.4000e-004		4.9100e-003	4.9100e-003		4.6300e-003	4.6300e-003	0.0000	21.2375	21.2375	5.1100e-003	0.0000	21.3653
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0112	0.1046	0.1244	2.4000e-004		4.9100e-003	4.9100e-003		4.6300e-003	4.6300e-003	0.0000	21.2375	21.2375	5.1100e-003	0.0000	21.3653

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	5.4000e-004	3.8000e-004	4.6700e-003	1.0000e-005	1.5100e-003	1.0000e-005	1.5200e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1757	1.1757	4.0000e-005	3.0000e-005	1.1869
Total	5.4000e-004	3.8000e-004	4.6700e-003	1.0000e-005	1.5100e-003	1.0000e-005	1.5200e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1757	1.1757	4.0000e-005	3.0000e-005	1.1869

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3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0461					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1500e-003	0.0200	0.0281	5.0000e-005		8.5000e-004	8.5000e-004		8.4000e-004	8.4000e-004	0.0000	4.2086	4.2086	4.3000e-004	0.0000	4.2193
Total	0.0482	0.0200	0.0281	5.0000e-005		8.5000e-004	8.5000e-004		8.4000e-004	8.4000e-004	0.0000	4.2086	4.2086	4.3000e-004	0.0000	4.2193

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	4.0000e-005	3.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0941	0.0941	0.0000	0.0000	0.0950
Total	4.0000e-005	3.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0941	0.0941	0.0000	0.0000	0.0950

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3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0461					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1500e-003	0.0200	0.0281	5.0000e-005		8.5000e-004	8.5000e-004		8.4000e-004	8.4000e-004	0.0000	4.2086	4.2086	4.3000e-004	0.0000	4.2193
Total	0.0482	0.0200	0.0281	5.0000e-005		8.5000e-004	8.5000e-004		8.4000e-004	8.4000e-004	0.0000	4.2086	4.2086	4.3000e-004	0.0000	4.2193

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	4.0000e-005	3.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0941	0.0941	0.0000	0.0000	0.0950
Total	4.0000e-005	3.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0941	0.0941	0.0000	0.0000	0.0950

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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
Other Non-Asphalt Surfaces	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
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.543528	0.058189	0.173108	0.133952	0.027894	0.007577	0.011427	0.006062	0.000688	0.000393	0.029232	0.000646	0.007304

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	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

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.4600e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	6.4600e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-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	4.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8600e-003					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	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	6.4600e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8600e-003					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	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	6.4600e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

7.0 Water Detail

7.1 Mitigation Measures Water

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	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			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	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

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	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			
Other Non-Asphalt Surfaces	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 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.054	20	4332	0.73	Diesel

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.0711	0.3179	0.1813	3.4000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	32.9923	32.9923	4.6300e-003	0.0000	33.1079
Total	0.0711	0.3179	0.1813	3.4000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	32.9923	32.9923	4.6300e-003	0.0000	33.1079

11.0 Vegetation