

Appendix D

Air Quality and Greenhouse Gas
Modeling

VST_1A - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_1A
Merced County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.30	Acre	5.30	230,868.00	0
Apartments High Rise	696.00	Dwelling Unit	24.79	696,000.00	1991
Single Family Housing	36.00	Dwelling Unit	4.13	43,200.00	103
Single Family Housing	66.00	Dwelling Unit	10.50	125,400.00	189
Single Family Housing	43.00	Dwelling Unit	17.14	139,750.00	123
Convenience Market with Gas Pumps	50.00	1000sqft	1.15	50,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2029
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data of phase 1A
- Construction Phase - PD
- Off-road Equipment - defaults
- Off-road Equipment - defaults
- Off-road Equipment - defaults
- Off-road Equipment -

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Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - No NG and 100% electricity from solar for residential

Land Use Change -

Construction Off-road Equipment Mitigation - All engines used will be tier 4, 90% offroad equipment, limit traffic speed to 15 mph on unpaved roads

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Water And Wastewater - In operational run

Solid Waste - in operational run

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	50
tblAreaCoating	Area_EF_Residential_Exterior	150	50
tblAreaCoating	Area_EF_Residential_Interior	150	50
tblAreaCoating	Area_Nonresidential_Exterior	25000	0
tblAreaCoating	Area_Nonresidential_Interior	75000	0
tblAreaCoating	Area_Residential_Exterior	677936	0
tblAreaCoating	Area_Residential_Interior	2033809	0

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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	40.00	30.00
tblConstructionPhase	NumDays	110.00	81.00

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tblConstructionPhase	NumDays	1,110.00	822.00
tblConstructionPhase	NumDays	75.00	56.00
tblConstructionPhase	NumDays	75.00	56.00
tblConstructionPhase	PhaseEndDate	2/25/2025	2/11/2025
tblConstructionPhase	PhaseEndDate	7/29/2025	6/3/2025
tblConstructionPhase	PhaseEndDate	10/30/2029	7/27/2028
tblConstructionPhase	PhaseEndDate	2/12/2030	10/13/2028
tblConstructionPhase	PhaseEndDate	5/28/2030	1/1/2029
tblConstructionPhase	PhaseStartDate	2/26/2025	2/11/2025
tblConstructionPhase	PhaseStartDate	7/30/2025	6/4/2025
tblConstructionPhase	PhaseStartDate	10/31/2029	7/28/2028
tblConstructionPhase	PhaseStartDate	2/13/2030	10/14/2028
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	382.80	0.00
tblFireplaces	NumberGas	79.75	0.00
tblFireplaces	NumberNoFireplace	313.20	0.00
tblFireplaces	NumberNoFireplace	65.25	0.00
tblGrading	AcresOfGrading	243.00	63.00
tblGrading	AcresOfGrading	45.00	63.00
tblLandUse	LandUseSquareFeet	64,800.00	43,200.00

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tblLandUse	LandUseSquareFeet	77,400.00	139,750.00
tblLandUse	LandUseSquareFeet	118,800.00	125,400.00
tblLandUse	LotAcreage	11.23	24.79
tblLandUse	LotAcreage	11.69	4.13
tblLandUse	LotAcreage	13.96	17.14
tblLandUse	LotAcreage	21.43	10.50
tblSolidWaste	SolidWasteGenerationRate	320.16	0.00
tblSolidWaste	SolidWasteGenerationRate	0.46	0.00
tblSolidWaste	SolidWasteGenerationRate	150.26	0.00
tblSolidWaste	SolidWasteGenerationRate	149.40	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	45,347,201.83	0.00
tblWater	IndoorWaterUseRate	3,703,626.07	0.00
tblWater	IndoorWaterUseRate	9,447,333.72	0.00
tblWater	OutdoorWaterUseRate	28,588,453.33	0.00
tblWater	OutdoorWaterUseRate	6,314,851.15	0.00
tblWater	OutdoorWaterUseRate	2,269,964.37	0.00
tblWater	OutdoorWaterUseRate	5,955,927.78	0.00

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tblWoodstoves	NumberCatalytic	24.79	0.00
tblWoodstoves	NumberCatalytic	31.77	0.00
tblWoodstoves	NumberNoncatalytic	24.79	0.00
tblWoodstoves	NumberNoncatalytic	31.77	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.4273	3.0150	3.9543	0.0106	1.0593	0.1071	1.1664	0.4188	0.0995	0.5183	0.0000	957.4522	957.4522	0.1394	0.0381	972.2811
2026	0.4449	2.5730	4.3307	0.0127	0.8106	0.0776	0.8882	0.2182	0.0730	0.2912	0.0000	1,153.6115	1,153.6115	0.0874	0.0634	1,174.6817
2027	0.4260	2.5508	4.1844	0.0124	0.8106	0.0774	0.8880	0.2182	0.0728	0.2910	0.0000	1,131.1243	1,131.1243	0.0859	0.0614	1,151.5648
2028	3.4735	1.7235	2.8590	7.9300e-003	0.4953	0.0573	0.5526	0.1332	0.0537	0.1870	0.0000	720.0925	720.0925	0.0674	0.0346	732.0978
2029	0.0584	6.6000e-004	2.1600e-003	1.0000e-005	5.3000e-004	3.0000e-005	5.6000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	0.4941	0.4941	2.0000e-005	1.0000e-005	0.4973
Maximum	3.4735	3.0150	4.3307	0.0127	1.0593	0.1071	1.1664	0.4188	0.0995	0.5183	0.0000	1,153.6115	1,153.6115	0.1394	0.0634	1,174.6817

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2.1 Overall Construction

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					
2025	0.2358	0.9436	4.3679	0.0106	1.0593	0.0153	1.0746	0.4188	0.0148	0.4336	0.0000	957.4516	957.4516	0.1394	0.0381	972.2806
2026	0.3131	1.2855	4.5056	0.0127	0.8106	0.0161	0.8267	0.2182	0.0154	0.2336	0.0000	1,153.611 1	1,153.611 1	0.0874	0.0634	1,174.681 4
2027	0.2942	1.2633	4.3593	0.0124	0.8106	0.0158	0.8265	0.2182	0.0152	0.2334	0.0000	1,131.123 9	1,131.123 9	0.0859	0.0614	1,151.564 5
2028	3.3766	0.7543	3.0355	7.9300e-003	0.4953	0.0102	0.5055	0.1332	9.8200e-003	0.1431	0.0000	720.0923	720.0923	0.0674	0.0346	732.0975
2029	0.0584	1.5000e-004	2.1700e-003	1.0000e-005	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4941	0.4941	2.0000e-005	1.0000e-005	0.4973
Maximum	3.3766	1.2855	4.5056	0.0127	1.0593	0.0161	1.0746	0.4188	0.0154	0.4336	0.0000	1,153.611 1	1,153.611 1	0.1394	0.0634	1,174.681 4

	ROG	NOx	CO	SO2	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	11.43	56.94	-6.13	0.00	0.00	82.01	7.49	0.00	81.53	18.93	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	1-1-2025	3-31-2025	0.9587	0.1261
2	4-1-2025	6-30-2025	0.9336	0.2235
3	7-1-2025	9-30-2025	0.7704	0.4131
4	10-1-2025	12-31-2025	0.7826	0.4252
5	1-1-2026	3-31-2026	0.7539	0.4043
6	4-1-2026	6-30-2026	0.7504	0.3969
7	7-1-2026	9-30-2026	0.7587	0.4013

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8	10-1-2026	12-31-2026	0.7707	0.4133
9	1-1-2027	3-31-2027	0.7432	0.3936
10	4-1-2027	6-30-2027	0.7398	0.3863
11	7-1-2027	9-30-2027	0.7479	0.3906
12	10-1-2027	12-31-2027	0.7598	0.4024
13	1-1-2028	3-31-2028	0.7422	0.3887
14	4-1-2028	6-30-2028	0.7306	0.3771
15	7-1-2028	9-30-2028	0.4387	0.1481
16	10-1-2028	12-31-2028	3.3799	3.3101
17	1-1-2029	3-31-2029	0.0422	0.0418
		Highest	3.3799	3.3101

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	4.3073	0.0719	6.2391	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	10.2013	10.2013	9.7700e-003	0.0000	10.4456
Energy	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	64.9489	64.9489	6.4700e-003	1.2400e-003	65.4794
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.3102	0.0979	6.2610	4.9000e-004	0.0000	0.0366	0.0366	0.0000	0.0366	0.0366	0.0000	75.1502	75.1502	0.0162	1.2400e-003	75.9250

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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	4.3073	0.0719	6.2391	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	10.2013	10.2013	9.7700e-003	0.0000	10.4456
Energy	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	64.9489	64.9489	6.4700e-003	1.2400e-003	65.4794
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.3102	0.0979	6.2610	4.9000e-004	0.0000	0.0366	0.0366	0.0000	0.0366	0.0366	0.0000	75.1502	75.1502	0.0162	1.2400e-003	75.9250

	ROG	NOx	CO	SO2	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	1A SP	Site Preparation	1/1/2025	2/11/2025	5	30	
2	1A G	Grading	2/11/2025	6/3/2025	5	81	
3	1A BC	Building Construction	6/4/2025	7/27/2028	5	822	

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4	1A P	Paving	7/28/2028	10/13/2028	5	56
5	1A AC	Architectural Coating	10/14/2028	1/1/2029	5	56

Acres of Grading (Site Preparation Phase): 63

Acres of Grading (Grading Phase): 63

Acres of Paving: 0

Residential Indoor: 2,033,809; Residential Outdoor: 677,936; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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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
1A SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A BC	9	666.00	136.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A AC	1	133.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Reduce Vehicle Speed on Unpaved Roads

3.2 1A SP - 2025

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					0.3044	0.0000	0.3044	0.1526	0.0000	0.1526	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0371	0.3785	0.2687	5.7000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	50.2005	50.2005	0.0162	0.0000	50.6064
Total	0.0371	0.3785	0.2687	5.7000e-004	0.3044	0.0163	0.3207	0.1526	0.0150	0.1676	0.0000	50.2005	50.2005	0.0162	0.0000	50.6064

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3.2 1A SP - 2025

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	8.3000e-004	5.4000e-004	6.6500e-003	2.0000e-005	2.1500e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6697	1.6697	5.0000e-005	5.0000e-005	1.6856
Total	8.3000e-004	5.4000e-004	6.6500e-003	2.0000e-005	2.1500e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6697	1.6697	5.0000e-005	5.0000e-005	1.6856

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					0.3044	0.0000	0.3044	0.1526	0.0000	0.1526	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6600e-003	0.0387	0.3122	5.7000e-004		1.2800e-003	1.2800e-003		1.2500e-003	1.2500e-003	0.0000	50.2004	50.2004	0.0162	0.0000	50.6063
Total	7.6600e-003	0.0387	0.3122	5.7000e-004	0.3044	1.2800e-003	0.3057	0.1526	1.2500e-003	0.1538	0.0000	50.2004	50.2004	0.0162	0.0000	50.6063

VST_1A - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1A SP - 2025

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	8.3000e-004	5.4000e-004	6.6500e-003	2.0000e-005	2.1500e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6697	1.6697	5.0000e-005	5.0000e-005	1.6856
Total	8.3000e-004	5.4000e-004	6.6500e-003	2.0000e-005	2.1500e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6697	1.6697	5.0000e-005	5.0000e-005	1.6856

3.3 1A G - 2025

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					0.2773	0.0000	0.2773	0.1377	0.0000	0.1377	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1175	1.1317	1.0664	2.5100e-003		0.0458	0.0458		0.0421	0.0421	0.0000	220.7502	220.7502	0.0714	0.0000	222.5350
Total	0.1175	1.1317	1.0664	2.5100e-003	0.2773	0.0458	0.3231	0.1377	0.0421	0.1798	0.0000	220.7502	220.7502	0.0714	0.0000	222.5350

VST_1A - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1A G - 2025

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	2.4900e-003	1.6200e-003	0.0200	5.0000e-005	6.4600e-003	3.0000e-005	6.4900e-003	1.7200e-003	3.0000e-005	1.7500e-003	0.0000	5.0089	5.0089	1.6000e-004	1.5000e-004	5.0567
Total	2.4900e-003	1.6200e-003	0.0200	5.0000e-005	6.4600e-003	3.0000e-005	6.4900e-003	1.7200e-003	3.0000e-005	1.7500e-003	0.0000	5.0089	5.0089	1.6000e-004	1.5000e-004	5.0567

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					0.2773	0.0000	0.2773	0.1377	0.0000	0.1377	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0318	0.1450	1.3354	2.5100e-003		4.5900e-003	4.5900e-003		4.5500e-003	4.5500e-003	0.0000	220.7499	220.7499	0.0714	0.0000	222.5348
Total	0.0318	0.1450	1.3354	2.5100e-003	0.2773	4.5900e-003	0.2819	0.1377	4.5500e-003	0.1422	0.0000	220.7499	220.7499	0.0714	0.0000	222.5348

VST_1A - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1A G - 2025

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	2.4900e-003	1.6200e-003	0.0200	5.0000e-005	6.4600e-003	3.0000e-005	6.4900e-003	1.7200e-003	3.0000e-005	1.7500e-003	0.0000	5.0089	5.0089	1.6000e-004	1.5000e-004	5.0567
Total	2.4900e-003	1.6200e-003	0.0200	5.0000e-005	6.4600e-003	3.0000e-005	6.4900e-003	1.7200e-003	3.0000e-005	1.7500e-003	0.0000	5.0089	5.0089	1.6000e-004	1.5000e-004	5.0567

3.4 1A BC - 2025

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	0.1032	0.9415	1.2144	2.0400e-003		0.0398	0.0398		0.0375	0.0375	0.0000	175.0992	175.0992	0.0412	0.0000	176.1282
Total	0.1032	0.9415	1.2144	2.0400e-003		0.0398	0.0398		0.0375	0.0375	0.0000	175.0992	175.0992	0.0412	0.0000	176.1282

VST_1A - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2025

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	0.0112	0.4608	0.1398	2.0200e-003	0.0680	3.0300e-003	0.0710	0.0197	2.9000e-003	0.0226	0.0000	193.7799	193.7799	6.7000e-004	0.0287	202.3601
Worker	0.1549	0.1004	1.2384	3.3900e-003	0.4010	2.1300e-003	0.4031	0.1066	1.9600e-003	0.1086	0.0000	310.9439	310.9439	9.6800e-003	9.1400e-003	313.9091
Total	0.1661	0.5612	1.3782	5.4100e-003	0.4690	5.1600e-003	0.4742	0.1263	4.8600e-003	0.1311	0.0000	504.7238	504.7238	0.0104	0.0379	516.2692

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	0.0270	0.1966	1.3156	2.0400e-003		4.2500e-003	4.2500e-003		4.1400e-003	4.1400e-003	0.0000	175.0990	175.0990	0.0412	0.0000	176.1280
Total	0.0270	0.1966	1.3156	2.0400e-003		4.2500e-003	4.2500e-003		4.1400e-003	4.1400e-003	0.0000	175.0990	175.0990	0.0412	0.0000	176.1280

VST_1A - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2025

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	0.0112	0.4608	0.1398	2.0200e-003	0.0680	3.0300e-003	0.0710	0.0197	2.9000e-003	0.0226	0.0000	193.7799	193.7799	6.7000e-004	0.0287	202.3601
Worker	0.1549	0.1004	1.2384	3.3900e-003	0.4010	2.1300e-003	0.4031	0.1066	1.9600e-003	0.1086	0.0000	310.9439	310.9439	9.6800e-003	9.1400e-003	313.9091
Total	0.1661	0.5612	1.3782	5.4100e-003	0.4690	5.1600e-003	0.4742	0.1263	4.8600e-003	0.1311	0.0000	504.7238	504.7238	0.0104	0.0379	516.2692

3.4 1A BC - 2026

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

VST_1A - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2026

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	0.0189	0.7917	0.2362	3.4300e-003	0.1175	5.2100e-003	0.1227	0.0340	4.9800e-003	0.0390	0.0000	328.7926	328.7926	1.1100e-003	0.0487	343.3281
Worker	0.2475	0.1540	1.9955	5.6900e-003	0.6931	3.5400e-003	0.6967	0.1843	3.2600e-003	0.1875	0.0000	522.1640	522.1640	0.0151	0.0147	526.9201
Total	0.2664	0.9457	2.2317	9.1200e-003	0.8106	8.7500e-003	0.8194	0.2182	8.2400e-003	0.2265	0.0000	850.9566	850.9566	0.0163	0.0634	870.2482

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	0.0467	0.3398	2.2739	3.5200e-003		7.3400e-003	7.3400e-003		7.1600e-003	7.1600e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0467	0.3398	2.2739	3.5200e-003		7.3400e-003	7.3400e-003		7.1600e-003	7.1600e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2026

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	0.0189	0.7917	0.2362	3.4300e-003	0.1175	5.2100e-003	0.1227	0.0340	4.9800e-003	0.0390	0.0000	328.7926	328.7926	1.1100e-003	0.0487	343.3281
Worker	0.2475	0.1540	1.9955	5.6900e-003	0.6931	3.5400e-003	0.6967	0.1843	3.2600e-003	0.1875	0.0000	522.1640	522.1640	0.0151	0.0147	526.9201
Total	0.2664	0.9457	2.2317	9.1200e-003	0.8106	8.7500e-003	0.8194	0.2182	8.2400e-003	0.2265	0.0000	850.9566	850.9566	0.0163	0.0634	870.2482

3.4 1A BC - 2027

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

VST_1A - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2027

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	0.0184	0.7861	0.2313	3.3600e-003	0.1175	5.1700e-003	0.1227	0.0340	4.9500e-003	0.0389	0.0000	322.2193	322.2193	1.0800e-003	0.0476	336.4443
Worker	0.2291	0.1375	1.8540	5.5200e-003	0.6931	3.3300e-003	0.6965	0.1843	3.0600e-003	0.1873	0.0000	506.2501	506.2501	0.0137	0.0137	510.6870
Total	0.2475	0.9235	2.0853	8.8800e-003	0.8106	8.5000e-003	0.8191	0.2182	8.0100e-003	0.2262	0.0000	828.4694	828.4694	0.0148	0.0614	847.1313

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	0.0467	0.3398	2.2739	3.5200e-003		7.3400e-003	7.3400e-003		7.1600e-003	7.1600e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0467	0.3398	2.2739	3.5200e-003		7.3400e-003	7.3400e-003		7.1600e-003	7.1600e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

VST_1A - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2027

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	0.0184	0.7861	0.2313	3.3600e-003	0.1175	5.1700e-003	0.1227	0.0340	4.9500e-003	0.0389	0.0000	322.2193	322.2193	1.0800e-003	0.0476	336.4443
Worker	0.2291	0.1375	1.8540	5.5200e-003	0.6931	3.3300e-003	0.6965	0.1843	3.0600e-003	0.1873	0.0000	506.2501	506.2501	0.0137	0.0137	510.6870
Total	0.2475	0.9235	2.0853	8.8800e-003	0.8106	8.5000e-003	0.8191	0.2182	8.0100e-003	0.2262	0.0000	828.4694	828.4694	0.0148	0.0614	847.1313

3.4 1A BC - 2028

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	0.1019	0.9290	1.1983	2.0100e-003		0.0393	0.0393		0.0370	0.0370	0.0000	172.7800	172.7800	0.0406	0.0000	173.7954
Total	0.1019	0.9290	1.1983	2.0100e-003		0.0393	0.0393		0.0370	0.0370	0.0000	172.7800	172.7800	0.0406	0.0000	173.7954

VST_1A - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2028

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	0.0103	0.4463	0.1301	1.8800e-003	0.0671	2.9300e-003	0.0700	0.0194	2.8000e-003	0.0222	0.0000	180.3667	180.3667	6.0000e-004	0.0266	188.3176
Worker	0.1211	0.0706	0.9912	3.0600e-003	0.3957	1.7800e-003	0.3975	0.1052	1.6400e-003	0.1068	0.0000	280.7949	280.7949	7.0900e-003	7.3900e-003	283.1755
Total	0.1314	0.5169	1.1213	4.9400e-003	0.4628	4.7100e-003	0.4675	0.1246	4.4400e-003	0.1290	0.0000	461.1616	461.1616	7.6900e-003	0.0340	471.4930

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	0.0266	0.1940	1.2982	2.0100e-003		4.1900e-003	4.1900e-003		4.0900e-003	4.0900e-003	0.0000	172.7798	172.7798	0.0406	0.0000	173.7952
Total	0.0266	0.1940	1.2982	2.0100e-003		4.1900e-003	4.1900e-003		4.0900e-003	4.0900e-003	0.0000	172.7798	172.7798	0.0406	0.0000	173.7952

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2028

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	0.0103	0.4463	0.1301	1.8800e-003	0.0671	2.9300e-003	0.0700	0.0194	2.8000e-003	0.0222	0.0000	180.3667	180.3667	6.0000e-004	0.0266	188.3176
Worker	0.1211	0.0706	0.9912	3.0600e-003	0.3957	1.7800e-003	0.3975	0.1052	1.6400e-003	0.1068	0.0000	280.7949	280.7949	7.0900e-003	7.3900e-003	283.1755
Total	0.1314	0.5169	1.1213	4.9400e-003	0.4628	4.7100e-003	0.4675	0.1246	4.4400e-003	0.1290	0.0000	461.1616	461.1616	7.6900e-003	0.0340	471.4930

3.5 1A P - 2028

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	0.0256	0.2403	0.4082	6.4000e-004		0.0117	0.0117		0.0108	0.0108	0.0000	56.0539	56.0539	0.0181	0.0000	56.5071
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0256	0.2403	0.4082	6.4000e-004		0.0117	0.0117		0.0108	0.0108	0.0000	56.0539	56.0539	0.0181	0.0000	56.5071

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3.5 1A P - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	6.0000e-004	8.3900e-003	3.0000e-005	3.3500e-003	2.0000e-005	3.3600e-003	8.9000e-004	1.0000e-005	9.0000e-004	0.0000	2.3769	2.3769	6.0000e-005	6.0000e-005	2.3970
Total	1.0300e-003	6.0000e-004	8.3900e-003	3.0000e-005	3.3500e-003	2.0000e-005	3.3600e-003	8.9000e-004	1.0000e-005	9.0000e-004	0.0000	2.3769	2.3769	6.0000e-005	6.0000e-005	2.3970

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	7.8500e-003	0.0340	0.4843	6.4000e-004		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	56.0539	56.0539	0.0181	0.0000	56.5071
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.8500e-003	0.0340	0.4843	6.4000e-004		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	56.0539	56.0539	0.0181	0.0000	56.5071

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3.5 1A P - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	6.0000e-004	8.3900e-003	3.0000e-005	3.3500e-003	2.0000e-005	3.3600e-003	8.9000e-004	1.0000e-005	9.0000e-004	0.0000	2.3769	2.3769	6.0000e-005	6.0000e-005	2.3970
Total	1.0300e-003	6.0000e-004	8.3900e-003	3.0000e-005	3.3500e-003	2.0000e-005	3.3600e-003	8.9000e-004	1.0000e-005	9.0000e-004	0.0000	2.3769	2.3769	6.0000e-005	6.0000e-005	2.3970

3.6 1A AC - 2028

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	3.1999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7000e-003	0.0315	0.0498	8.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	7.0215	7.0215	3.8000e-004	0.0000	7.0310
Total	3.2046	0.0315	0.0498	8.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	7.0215	7.0215	3.8000e-004	0.0000	7.0310

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2028

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	8.9300e-003	5.2100e-003	0.0731	2.3000e-004	0.0292	1.3000e-004	0.0293	7.7500e-003	1.2000e-004	7.8800e-003	0.0000	20.6987	20.6987	5.2000e-004	5.5000e-004	20.8742
Total	8.9300e-003	5.2100e-003	0.0731	2.3000e-004	0.0292	1.3000e-004	0.0293	7.7500e-003	1.2000e-004	7.8800e-003	0.0000	20.6987	20.6987	5.2000e-004	5.5000e-004	20.8742

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	3.1999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2000e-004	3.5400e-003	0.0504	8.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.0214	7.0214	3.8000e-004	0.0000	7.0310
Total	3.2008	3.5400e-003	0.0504	8.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.0214	7.0214	3.8000e-004	0.0000	7.0310

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3.6 1A AC - 2028

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	8.9300e-003	5.2100e-003	0.0731	2.3000e-004	0.0292	1.3000e-004	0.0293	7.7500e-003	1.2000e-004	7.8800e-003	0.0000	20.6987	20.6987	5.2000e-004	5.5000e-004	20.8742
Total	8.9300e-003	5.2100e-003	0.0731	2.3000e-004	0.0292	1.3000e-004	0.0293	7.7500e-003	1.2000e-004	7.8800e-003	0.0000	20.6987	20.6987	5.2000e-004	5.5000e-004	20.8742

3.6 1A AC - 2029

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	0.0582					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-005	5.7000e-004	9.0000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1278
Total	0.0583	5.7000e-004	9.0000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1278

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	9.0000e-005	1.2500e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3664	0.3664	1.0000e-005	1.0000e-005	0.3694
Total	1.5000e-004	9.0000e-005	1.2500e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3664	0.3664	1.0000e-005	1.0000e-005	0.3694

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	0.0582					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-005	6.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1278
Total	0.0582	6.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1278

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3.6 1A AC - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	9.0000e-005	1.2500e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3664	0.3664	1.0000e-005	1.0000e-005	0.3694
Total	1.5000e-004	9.0000e-005	1.2500e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3664	0.3664	1.0000e-005	1.0000e-005	0.3694

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
City Park	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
Convenience Market with Gas Pumps	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
Single Family Housing	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412

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	36.6394	36.6394	5.9300e-003	7.2000e-004	37.0017
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	36.6394	36.6394	5.9300e-003	7.2000e-004	37.0017
NaturalGas Mitigated	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3095	28.3095	5.4000e-004	5.2000e-004	28.4777
NaturalGas Unmitigated	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3095	28.3095	5.4000e-004	5.2000e-004	28.4777

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	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	0.0000
City Park	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	0.0000
Convenience Market with Gas Pumps	530500	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3095	28.3095	5.4000e-004	5.2000e-004	28.4777
Single Family Housing	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	0.0000
Total		2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3095	28.3095	5.4000e-004	5.2000e-004	28.4777

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	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	0.0000
City Park	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	0.0000
Convenience Market with Gas Pumps	530500	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3095	28.3095	5.4000e-004	5.2000e-004	28.4777
Single Family Housing	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	0.0000
Total		2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3095	28.3095	5.4000e-004	5.2000e-004	28.4777

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market with Gas Pumps	396000	36.6394	5.9300e-003	7.2000e-004	37.0017
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		36.6394	5.9300e-003	7.2000e-004	37.0017

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market with Gas Pumps	396000	36.6394	5.9300e-003	7.2000e-004	37.0017
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		36.6394	5.9300e-003	7.2000e-004	37.0017

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	4.3073	0.0719	6.2391	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	10.2013	10.2013	9.7700e-003	0.0000	10.4456
Unmitigated	4.3073	0.0719	6.2391	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	10.2013	10.2013	9.7700e-003	0.0000	10.4456

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1874	0.0719	6.2391	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	10.2013	10.2013	9.7700e-003	0.0000	10.4456
Total	4.3073	0.0719	6.2391	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	10.2013	10.2013	9.7700e-003	0.0000	10.4456

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1874	0.0719	6.2391	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	10.2013	10.2013	9.7700e-003	0.0000	10.4456
Total	4.3073	0.0719	6.2391	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	10.2013	10.2013	9.7700e-003	0.0000	10.4456

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number
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11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_1B

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.00	Acre	8.00	348,480.00	0
Condo/Townhouse	226.00	Dwelling Unit	37.83	339,000.00	646

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2030
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data (1B)
- Construction Phase - Dates from modeling data document and project description (1B)
- Off-road Equipment - defaults
- Trips and VMT - defaults
- Grading - Acreage is the total acreage from that phase
- Architectural Coating - Sq ft per phase
- SJVAPCD VOC limit = 50 g/L
- Vehicle Trips - in operational model
- Woodstoves - defaults
- Area Coating - SJVAPCD VOC limit = 50g/L

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - 100% single family residential electricity from solar, 25% more efficient than Title 24 for multifamily housing

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 15 mph on unpaved roads, mitigated to 90% of equipment

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Water And Wastewater - in operational model

Solid Waste - in operational model

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Residential_Exterior	228825	0
tblAreaCoating	Area_Residential_Interior	686475	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	18.00
tblConstructionPhase	NumDays	75.00	51.00
tblConstructionPhase	NumDays	740.00	515.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	PhaseEndDate	8/25/2026	7/24/2026
tblConstructionPhase	PhaseEndDate	1/26/2027	10/5/2026
tblConstructionPhase	PhaseEndDate	4/29/2031	9/25/2028
tblConstructionPhase	PhaseEndDate	11/25/2031	1/1/2029
tblConstructionPhase	PhaseEndDate	8/12/2031	11/13/2028
tblConstructionPhase	PhaseStartDate	8/26/2026	7/25/2026
tblConstructionPhase	PhaseStartDate	1/27/2027	10/6/2026
tblConstructionPhase	PhaseStartDate	8/13/2031	11/14/2028
tblConstructionPhase	PhaseStartDate	4/30/2031	9/26/2028
tblEnergyUse	LightingElect	1,001.10	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	NumberGas	124.30	0.00
tblFireplaces	NumberNoFireplace	101.70	0.00
tblGrading	AcresOfGrading	153.00	45.00
tblGrading	AcresOfGrading	27.00	45.00
tblLandUse	LandUseSquareFeet	226,000.00	339,000.00
tblLandUse	LotAcreage	14.13	37.83
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	103.96	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	14,724,809.79	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	9,283,032.26	0.00
tblWoodstoves	NumberCatalytic	37.83	0.00
tblWoodstoves	NumberNoncatalytic	37.83	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

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 Not 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					
2026	0.1717	1.4647	1.6122	3.9500e-003	0.4638	0.0564	0.5202	0.2059	0.0523	0.2582	0.0000	351.9490	351.9490	0.0738	8.7600e-003	356.4047
2027	0.2957	2.1593	3.0970	8.0800e-003	0.3916	0.0735	0.4651	0.1057	0.0691	0.1749	0.0000	729.4467	729.4467	0.0781	0.0348	741.7561
2028	1.2629	1.7451	2.5371	6.3600e-003	0.2971	0.0619	0.3590	0.0802	0.0582	0.1383	0.0000	573.0142	573.0142	0.0685	0.0249	582.1543
2029	0.0305	6.1000e-004	1.4900e-003	0.0000	2.5000e-004	3.0000e-005	2.7000e-004	7.0000e-005	3.0000e-005	9.0000e-005	0.0000	0.2985	0.2985	1.0000e-005	0.0000	0.3001
Maximum	1.2629	2.1593	3.0970	8.0800e-003	0.4638	0.0735	0.5202	0.2059	0.0691	0.2582	0.0000	729.4467	729.4467	0.0781	0.0348	741.7561

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

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					
2026	0.0682	0.3288	1.8499	3.9500e-003	0.4638	6.6000e-003	0.4704	0.2059	6.4500e-003	0.2123	0.0000	351.9487	351.9487	0.0738	8.7600e-003	356.4045
2027	0.1639	0.8717	3.2719	8.0800e-003	0.3916	0.0120	0.4035	0.1057	0.0115	0.1173	0.0000	729.4463	729.4463	0.0781	0.0348	741.7558
2028	1.1530	0.6567	2.7130	6.3600e-003	0.2971	9.4400e-003	0.3065	0.0802	9.1200e-003	0.0893	0.0000	573.0139	573.0139	0.0685	0.0249	582.1539
2029	0.0304	1.0000e-004	1.5000e-003	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2985	0.2985	1.0000e-005	0.0000	0.3001
Maximum	1.1530	0.8717	3.2719	8.0800e-003	0.4638	0.0120	0.4704	0.2059	0.0115	0.2123	0.0000	729.4463	729.4463	0.0781	0.0348	741.7558

	ROG	NOx	CO	SO2	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	19.61	65.41	-8.12	0.00	0.00	85.40	12.19	0.00	84.91	26.68	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	7-1-2026	9-30-2026	0.9897	0.1357
2	10-1-2026	12-31-2026	0.6498	0.2646
3	1-1-2027	3-31-2027	0.6099	0.2603
4	4-1-2027	6-30-2027	0.6096	0.2561
5	7-1-2027	9-30-2027	0.6163	0.2589
6	10-1-2027	12-31-2027	0.6235	0.2661
7	1-1-2028	3-31-2028	0.6122	0.2588
8	4-1-2028	6-30-2028	0.6052	0.2517

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

9	7-1-2028	9-30-2028	0.5957	0.2434
10	10-1-2028	12-31-2028	1.2161	1.0705
11	1-1-2029	3-31-2029	0.0222	0.0218
		Highest	1.2161	1.0705

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3773	0.0193	1.6737	9.0000e-005		9.3100e-003	9.3100e-003		9.3100e-003	9.3100e-003	0.0000	2.7413	2.7413	2.6100e-003	0.0000	2.8066
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.3773	0.0193	1.6737	9.0000e-005	0.0000	9.3100e-003	9.3100e-003	0.0000	9.3100e-003	9.3100e-003	0.0000	2.7413	2.7413	2.6100e-003	0.0000	2.8066

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	1.3773	0.0193	1.6737	9.0000e-005		9.3100e-003	9.3100e-003		9.3100e-003	9.3100e-003	0.0000	2.7413	2.7413	2.6100e-003	0.0000	2.8066
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.3773	0.0193	1.6737	9.0000e-005	0.0000	9.3100e-003	9.3100e-003	0.0000	9.3100e-003	9.3100e-003	0.0000	2.7413	2.7413	2.6100e-003	0.0000	2.8066

	ROG	NOx	CO	SO2	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	1B SP	Site Preparation	7/1/2026	7/24/2026	5	18	
2	1B G	Grading	7/25/2026	10/5/2026	5	51	
3	1B BC	Building Construction	10/6/2026	9/25/2028	5	515	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	1B P	Paving	9/26/2028	11/13/2028	5	35
5	1B AC	Architectural Coating	11/14/2028	1/1/2029	5	35

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 686,475; Residential Outdoor: 228,825; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
1B SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B BC	9	309.00	81.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B AC	1	62.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Reduce Vehicle Speed on Unpaved Roads

3.2 1B SP - 2026

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					0.1865	0.0000	0.1865	0.0920	0.0000	0.0920	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.2271	0.1612	3.4000e-004		9.7800e-003	9.7800e-003		9.0000e-003	9.0000e-003	0.0000	30.1203	30.1203	9.7400e-003	0.0000	30.3638
Total	0.0223	0.2271	0.1612	3.4000e-004	0.1865	9.7800e-003	0.1962	0.0920	9.0000e-003	0.1010	0.0000	30.1203	30.1203	9.7400e-003	0.0000	30.3638

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3.2 1B SP - 2026

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	4.6000e-004	2.9000e-004	3.7200e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.9733	0.9733	3.0000e-005	3.0000e-005	0.9821
Total	4.6000e-004	2.9000e-004	3.7200e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.9733	0.9733	3.0000e-005	3.0000e-005	0.9821

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					0.1865	0.0000	0.1865	0.0920	0.0000	0.0920	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-003	0.0232	0.1873	3.4000e-004		7.7000e-004	7.7000e-004		7.5000e-004	7.5000e-004	0.0000	30.1203	30.1203	9.7400e-003	0.0000	30.3638
Total	4.6000e-003	0.0232	0.1873	3.4000e-004	0.1865	7.7000e-004	0.1872	0.0920	7.5000e-004	0.0927	0.0000	30.1203	30.1203	9.7400e-003	0.0000	30.3638

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3.2 1B SP - 2026

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	4.6000e-004	2.9000e-004	3.7200e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.9733	0.9733	3.0000e-005	3.0000e-005	0.9821
Total	4.6000e-004	2.9000e-004	3.7200e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.9733	0.9733	3.0000e-005	3.0000e-005	0.9821

3.3 1B G - 2026

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					0.1774	0.0000	0.1774	0.0870	0.0000	0.0870	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.7125	0.6714	1.5800e-003		0.0288	0.0288		0.0265	0.0265	0.0000	138.9908	138.9908	0.0450	0.0000	140.1147
Total	0.0740	0.7125	0.6714	1.5800e-003	0.1774	0.0288	0.2063	0.0870	0.0265	0.1135	0.0000	138.9908	138.9908	0.0450	0.0000	140.1147

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1B G - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	9.0000e-004	0.0117	3.0000e-005	4.0700e-003	2.0000e-005	4.0900e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.0640	3.0640	9.0000e-005	9.0000e-005	3.0919
Total	1.4500e-003	9.0000e-004	0.0117	3.0000e-005	4.0700e-003	2.0000e-005	4.0900e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.0640	3.0640	9.0000e-005	9.0000e-005	3.0919

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					0.1774	0.0000	0.1774	0.0870	0.0000	0.0870	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.0913	0.8408	1.5800e-003		2.8900e-003	2.8900e-003		2.8600e-003	2.8600e-003	0.0000	138.9907	138.9907	0.0450	0.0000	140.1145
Total	0.0200	0.0913	0.8408	1.5800e-003	0.1774	2.8900e-003	0.1803	0.0870	2.8600e-003	0.0899	0.0000	138.9907	138.9907	0.0450	0.0000	140.1145

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1B G - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	9.0000e-004	0.0117	3.0000e-005	4.0700e-003	2.0000e-005	4.0900e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.0640	3.0640	9.0000e-005	9.0000e-005	3.0919
Total	1.4500e-003	9.0000e-004	0.0117	3.0000e-005	4.0700e-003	2.0000e-005	4.0900e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.0640	3.0640	9.0000e-005	9.0000e-005	3.0919

3.4 1B BC - 2026

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	0.0431	0.3928	0.5067	8.5000e-004		0.0166	0.0166		0.0156	0.0156	0.0000	73.0546	73.0546	0.0172	0.0000	73.4840
Total	0.0431	0.3928	0.5067	8.5000e-004		0.0166	0.0166		0.0156	0.0156	0.0000	73.0546	73.0546	0.0172	0.0000	73.4840

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2026

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	2.7200e-003	0.1138	0.0340	4.9000e-004	0.0169	7.5000e-004	0.0176	4.8800e-003	7.2000e-004	5.6000e-003	0.0000	47.2681	47.2681	1.6000e-004	7.0000e-003	49.3578
Worker	0.0277	0.0173	0.2235	6.4000e-004	0.0776	4.0000e-004	0.0780	0.0206	3.7000e-004	0.0210	0.0000	58.4778	58.4778	1.7000e-003	1.6500e-003	59.0105
Total	0.0304	0.1311	0.2574	1.1300e-003	0.0945	1.1500e-003	0.0957	0.0255	1.0900e-003	0.0266	0.0000	105.7459	105.7459	1.8600e-003	8.6500e-003	108.3682

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	0.0113	0.0820	0.5489	8.5000e-004		1.7700e-003	1.7700e-003		1.7300e-003	1.7300e-003	0.0000	73.0545	73.0545	0.0172	0.0000	73.4839
Total	0.0113	0.0820	0.5489	8.5000e-004		1.7700e-003	1.7700e-003		1.7300e-003	1.7300e-003	0.0000	73.0545	73.0545	0.0172	0.0000	73.4839

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3.4 1B BC - 2026

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	2.7200e-003	0.1138	0.0340	4.9000e-004	0.0169	7.5000e-004	0.0176	4.8800e-003	7.2000e-004	5.6000e-003	0.0000	47.2681	47.2681	1.6000e-004	7.0000e-003	49.3578
Worker	0.0277	0.0173	0.2235	6.4000e-004	0.0776	4.0000e-004	0.0780	0.0206	3.7000e-004	0.0210	0.0000	58.4778	58.4778	1.7000e-003	1.6500e-003	59.0105
Total	0.0304	0.1311	0.2574	1.1300e-003	0.0945	1.1500e-003	0.0957	0.0255	1.0900e-003	0.0266	0.0000	105.7459	105.7459	1.8600e-003	8.6500e-003	108.3682

3.4 1B BC - 2027

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.4 1B BC - 2027

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	0.0110	0.4682	0.1378	2.0000e-003	0.0700	3.0800e-003	0.0731	0.0202	2.9500e-003	0.0232	0.0000	191.9100	191.9100	6.4000e-004	0.0284	200.3823
Worker	0.1063	0.0638	0.8602	2.5600e-003	0.3216	1.5400e-003	0.3231	0.0855	1.4200e-003	0.0869	0.0000	234.8818	234.8818	6.3400e-003	6.3800e-003	236.9404
Total	0.1173	0.5320	0.9980	4.5600e-003	0.3916	4.6200e-003	0.3962	0.1057	4.3700e-003	0.1101	0.0000	426.7918	426.7918	6.9800e-003	0.0348	437.3226

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	0.0467	0.3398	2.2739	3.5200e-003		7.3400e-003	7.3400e-003		7.1600e-003	7.1600e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0467	0.3398	2.2739	3.5200e-003		7.3400e-003	7.3400e-003		7.1600e-003	7.1600e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.4 1B BC - 2027

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	0.0110	0.4682	0.1378	2.0000e-003	0.0700	3.0800e-003	0.0731	0.0202	2.9500e-003	0.0232	0.0000	191.9100	191.9100	6.4000e-004	0.0284	200.3823
Worker	0.1063	0.0638	0.8602	2.5600e-003	0.3216	1.5400e-003	0.3231	0.0855	1.4200e-003	0.0869	0.0000	234.8818	234.8818	6.3400e-003	6.3800e-003	236.9404
Total	0.1173	0.5320	0.9980	4.5600e-003	0.3916	4.6200e-003	0.3962	0.1057	4.3700e-003	0.1101	0.0000	426.7918	426.7918	6.9800e-003	0.0348	437.3226

3.4 1B BC - 2028

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	0.1306	1.1909	1.5361	2.5700e-003		0.0504	0.0504		0.0474	0.0474	0.0000	221.4831	221.4831	0.0521	0.0000	222.7847
Total	0.1306	1.1909	1.5361	2.5700e-003		0.0504	0.0504		0.0474	0.0474	0.0000	221.4831	221.4831	0.0521	0.0000	222.7847

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2028

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	7.8800e-003	0.3407	0.0993	1.4400e-003	0.0512	2.2400e-003	0.0535	0.0148	2.1400e-003	0.0169	0.0000	137.7050	137.7050	4.6000e-004	0.0203	143.7752
Worker	0.0720	0.0420	0.5895	1.8200e-003	0.2353	1.0600e-003	0.2364	0.0626	9.7000e-004	0.0635	0.0000	167.0016	167.0016	4.2200e-003	4.4000e-003	168.4174
Total	0.0799	0.3827	0.6888	3.2600e-003	0.2866	3.3000e-003	0.2899	0.0774	3.1100e-003	0.0805	0.0000	304.7065	304.7065	4.6800e-003	0.0247	312.1926

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	0.0341	0.2486	1.6641	2.5700e-003		5.3700e-003	5.3700e-003		5.2400e-003	5.2400e-003	0.0000	221.4828	221.4828	0.0521	0.0000	222.7844
Total	0.0341	0.2486	1.6641	2.5700e-003		5.3700e-003	5.3700e-003		5.2400e-003	5.2400e-003	0.0000	221.4828	221.4828	0.0521	0.0000	222.7844

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3.4 1B BC - 2028

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	7.8800e-003	0.3407	0.0993	1.4400e-003	0.0512	2.2400e-003	0.0535	0.0148	2.1400e-003	0.0169	0.0000	137.7050	137.7050	4.6000e-004	0.0203	143.7752
Worker	0.0720	0.0420	0.5895	1.8200e-003	0.2353	1.0600e-003	0.2364	0.0626	9.7000e-004	0.0635	0.0000	167.0016	167.0016	4.2200e-003	4.4000e-003	168.4174
Total	0.0799	0.3827	0.6888	3.2600e-003	0.2866	3.3000e-003	0.2899	0.0774	3.1100e-003	0.0805	0.0000	304.7065	304.7065	4.6800e-003	0.0247	312.1926

3.5 1B P - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0160	0.1502	0.2551	4.0000e-004		7.3200e-003	7.3200e-003		6.7400e-003	6.7400e-003	0.0000	35.0337	35.0337	0.0113	0.0000	35.3170
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0160	0.1502	0.2551	4.0000e-004		7.3200e-003	7.3200e-003		6.7400e-003	6.7400e-003	0.0000	35.0337	35.0337	0.0113	0.0000	35.3170

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3.5 1B P - 2028

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	6.4000e-004	3.7000e-004	5.2400e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.4856	1.4856	4.0000e-005	4.0000e-005	1.4982
Total	6.4000e-004	3.7000e-004	5.2400e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.4856	1.4856	4.0000e-005	4.0000e-005	1.4982

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	4.9100e-003	0.0213	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.0337	35.0337	0.0113	0.0000	35.3169
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.9100e-003	0.0213	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.0337	35.0337	0.0113	0.0000	35.3169

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3.5 1B P - 2028

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	6.4000e-004	3.7000e-004	5.2400e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.4856	1.4856	4.0000e-005	4.0000e-005	1.4982
Total	6.4000e-004	3.7000e-004	5.2400e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.4856	1.4856	4.0000e-005	4.0000e-005	1.4982

3.6 1B AC - 2028

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	1.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0195	0.0308	5.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	4.3405	4.3405	2.4000e-004	0.0000	4.3465
Total	1.0332	0.0195	0.0308	5.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	4.3405	4.3405	2.4000e-004	0.0000	4.3465

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1B AC - 2028

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	2.5700e-003	1.5000e-003	0.0211	7.0000e-005	8.4100e-003	4.0000e-005	8.4400e-003	2.2300e-003	3.0000e-005	2.2700e-003	0.0000	5.9649	5.9649	1.5000e-004	1.6000e-004	6.0154
Total	2.5700e-003	1.5000e-003	0.0211	7.0000e-005	8.4100e-003	4.0000e-005	8.4400e-003	2.2300e-003	3.0000e-005	2.2700e-003	0.0000	5.9649	5.9649	1.5000e-004	1.6000e-004	6.0154

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	1.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	2.1900e-003	0.0312	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.3405	4.3405	2.4000e-004	0.0000	4.3465
Total	1.0308	2.1900e-003	0.0312	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.3405	4.3405	2.4000e-004	0.0000	4.3465

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3.6 1B AC - 2028

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	2.5700e-003	1.5000e-003	0.0211	7.0000e-005	8.4100e-003	4.0000e-005	8.4400e-003	2.2300e-003	3.0000e-005	2.2700e-003	0.0000	5.9649	5.9649	1.5000e-004	1.6000e-004	6.0154
Total	2.5700e-003	1.5000e-003	0.0211	7.0000e-005	8.4100e-003	4.0000e-005	8.4400e-003	2.2300e-003	3.0000e-005	2.2700e-003	0.0000	5.9649	5.9649	1.5000e-004	1.6000e-004	6.0154

3.6 1B AC - 2029

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	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-005	5.7000e-004	9.0000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1278
Total	0.0304	5.7000e-004	9.0000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1278

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3.6 1B AC - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	4.0000e-005	5.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1708	0.1708	0.0000	0.0000	0.1722
Total	7.0000e-005	4.0000e-005	5.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1708	0.1708	0.0000	0.0000	0.1722

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	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-005	6.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1278
Total	0.0303	6.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1278

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3.6 1B AC - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	4.0000e-005	5.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1708	0.1708	0.0000	0.0000	0.1722
Total	7.0000e-005	4.0000e-005	5.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1708	0.1708	0.0000	0.0000	0.1722

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
City Park	0.00	0.00	0.00		
Condo/Townhouse	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.553744	0.048044	0.155686	0.124485	0.022760	0.005987	0.014190	0.049817	0.000857	0.000453	0.019630	0.002020	0.002328
Condo/Townhouse	0.553744	0.048044	0.155686	0.124485	0.022760	0.005987	0.014190	0.049817	0.000857	0.000453	0.019630	0.002020	0.002328

5.0 Energy Detail

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3773	0.0193	1.6737	9.0000e-005		9.3100e-003	9.3100e-003		9.3100e-003	9.3100e-003	0.0000	2.7413	2.7413	2.6100e-003	0.0000	2.8066
Unmitigated	1.3773	0.0193	1.6737	9.0000e-005		9.3100e-003	9.3100e-003		9.3100e-003	9.3100e-003	0.0000	2.7413	2.7413	2.6100e-003	0.0000	2.8066

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0501	0.0193	1.6737	9.0000e-005		9.3100e-003	9.3100e-003		9.3100e-003	9.3100e-003	0.0000	2.7413	2.7413	2.6100e-003	0.0000	2.8066
Total	1.3773	0.0193	1.6737	9.0000e-005		9.3100e-003	9.3100e-003		9.3100e-003	9.3100e-003	0.0000	2.7413	2.7413	2.6100e-003	0.0000	2.8066

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0501	0.0193	1.6737	9.0000e-005		9.3100e-003	9.3100e-003		9.3100e-003	9.3100e-003	0.0000	2.7413	2.7413	2.6100e-003	0.0000	2.8066
Total	1.3773	0.0193	1.6737	9.0000e-005		9.3100e-003	9.3100e-003		9.3100e-003	9.3100e-003	0.0000	2.7413	2.7413	2.6100e-003	0.0000	2.8066

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

VST_1B - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	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

VST_1B - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
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Boilers

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

VST_1C - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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Merced County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	275.00	1000sqft	12.60	550,000.00	0
City Park	5.80	Acre	5.80	252,648.00	0
Junior High School	300.00	Student	0.81	35,268.51	0
Apartments High Rise	456.00	Dwelling Unit	16.24	707,499.00	1304
Apartments High Rise	108.00	Dwelling Unit	3.00	130,680.00	309
Single Family Housing	64.00	Dwelling Unit	7.33	76,800.00	183
Condo/Townhouse	364.00	Dwelling Unit	22.75	436,800.00	1041

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2032
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (1C)

Construction Phase - Dates from modeling data document and project description (1C)

Off-road Equipment - defaults

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - 100% single family residential electricity from solar, 25% more efficient than title 24 standards for multifamily

Land Use Change -

Construction Off-road Equipment Mitigation - tier 4 engines and 15 mph limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Water And Wastewater - in operational model

Solid Waste - in operational model

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	292634	0
tblAreaCoating	Area_Nonresidential_Interior	877903	0
tblAreaCoating	Area_Residential_Exterior	912451	0
tblAreaCoating	Area_Residential_Interior	2737352	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	40.00	37.00
tblConstructionPhase	NumDays	110.00	101.00
tblConstructionPhase	NumDays	1,110.00	1,027.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	75.00	69.00
tblConstructionPhase	NumDays	75.00	69.00
tblConstructionPhase	PhaseEndDate	2/25/2027	2/22/2027
tblConstructionPhase	PhaseEndDate	7/29/2027	7/13/2027
tblConstructionPhase	PhaseEndDate	10/30/2031	6/19/2031
tblConstructionPhase	PhaseEndDate	5/27/2032	12/30/2031
tblConstructionPhase	PhaseEndDate	2/12/2032	9/24/2031
tblConstructionPhase	PhaseStartDate	2/26/2027	2/23/2027
tblConstructionPhase	PhaseStartDate	7/30/2027	7/14/2027
tblConstructionPhase	PhaseStartDate	2/13/2032	9/25/2031
tblConstructionPhase	PhaseStartDate	10/31/2031	6/20/2031
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	310.20	0.00
tblFireplaces	NumberGas	200.20	0.00
tblFireplaces	NumberGas	35.20	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberNoFireplace	253.80	0.00
tblFireplaces	NumberNoFireplace	163.80	0.00
tblFireplaces	NumberNoFireplace	28.80	0.00
tblGrading	AcresOfGrading	303.00	60.00
tblGrading	AcresOfGrading	55.50	60.00
tblLandUse	LandUseSquareFeet	275,000.00	550,000.00
tblLandUse	LandUseSquareFeet	456,000.00	707,499.00
tblLandUse	LandUseSquareFeet	108,000.00	130,680.00
tblLandUse	LandUseSquareFeet	115,200.00	76,800.00
tblLandUse	LandUseSquareFeet	364,000.00	436,800.00
tblLandUse	LotAcreage	6.31	12.60
tblLandUse	LotAcreage	7.35	16.24
tblLandUse	LotAcreage	1.74	3.00
tblLandUse	LotAcreage	20.78	7.33
tblSolidWaste	SolidWasteGenerationRate	259.44	0.00
tblSolidWaste	SolidWasteGenerationRate	167.44	0.00
tblSolidWaste	SolidWasteGenerationRate	54.75	0.00
tblSolidWaste	SolidWasteGenerationRate	0.50	0.00
tblSolidWaste	SolidWasteGenerationRate	65.88	0.00
tblSolidWaste	SolidWasteGenerationRate	255.75	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	SU_TR	0.76	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	2.13	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblWater	IndoorWaterUseRate	36,746,870.45	0.00
tblWater	IndoorWaterUseRate	23,716,065.33	0.00
tblWater	IndoorWaterUseRate	727,272.00	0.00
tblWater	IndoorWaterUseRate	4,169,857.64	0.00
tblWater	IndoorWaterUseRate	48,876,780.70	0.00
tblWater	OutdoorWaterUseRate	23,166,505.28	0.00
tblWater	OutdoorWaterUseRate	14,951,432.49	0.00
tblWater	OutdoorWaterUseRate	1,870,128.00	0.00
tblWater	OutdoorWaterUseRate	6,910,591.83	0.00
tblWater	OutdoorWaterUseRate	2,628,823.29	0.00
tblWater	OutdoorWaterUseRate	29,956,736.56	0.00
tblWoodstoves	NumberCatalytic	19.24	0.00
tblWoodstoves	NumberCatalytic	22.75	0.00
tblWoodstoves	NumberCatalytic	7.33	0.00
tblWoodstoves	NumberNoncatalytic	19.24	0.00
tblWoodstoves	NumberNoncatalytic	22.75	0.00
tblWoodstoves	NumberNoncatalytic	7.33	0.00

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 Not 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					
2027	0.4556	3.4050	4.1699	0.0123	1.2962	0.1164	1.4126	0.5180	0.1079	0.6259	0.0000	1,112.870 5	1,112.870 5	0.1533	0.0499	1,131.583 4
2028	0.5235	3.1954	5.0624	0.0173	1.2335	0.0823	1.3158	0.3328	0.0775	0.4103	0.0000	1,590.724 4	1,590.724 4	0.0911	0.1022	1,623.448 1
2029	0.5016	3.1820	4.9273	0.0171	1.2382	0.0823	1.3205	0.3340	0.0774	0.4115	0.0000	1,566.782 4	1,566.782 4	0.0898	0.0999	1,598.785 9
2030	0.4716	2.5693	4.8062	0.0173	1.2382	0.0324	1.2706	0.3340	0.0317	0.3657	0.0000	1,580.099 1	1,580.099 1	0.0310	0.0975	1,609.921 9
2031	5.8624	1.4763	2.9277	9.4500e-003	0.6374	0.0273	0.6647	0.1717	0.0270	0.1987	0.0000	857.9026	857.9026	0.0189	0.0456	871.9514
Maximum	5.8624	3.4050	5.0624	0.0173	1.2962	0.1164	1.4126	0.5180	0.1079	0.6259	0.0000	1,590.724 4	1,590.724 4	0.1533	0.1022	1,623.448 1

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

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					
2027	0.2503	1.1488	4.6414	0.0123	1.2962	0.0175	1.3137	0.5180	0.0169	0.5350	0.0000	1,112.869 9	1,112.869 9	0.1533	0.0499	1,131.582 8
2028	0.3922	1.9127	5.2366	0.0173	1.2335	0.0211	1.2545	0.3328	0.0201	0.3529	0.0000	1,590.724 0	1,590.724 0	0.0911	0.1022	1,623.447 7
2029	0.3698	1.8944	5.1022	0.0171	1.2382	0.0208	1.2590	0.3340	0.0198	0.3539	0.0000	1,566.782 1	1,566.782 1	0.0898	0.0999	1,598.785 5
2030	0.3491	1.8610	4.9764	0.0173	1.2382	0.0190	1.2572	0.3340	0.0183	0.3523	0.0000	1,580.098 6	1,580.098 6	0.0310	0.0975	1,609.921 5
2031	5.7636	0.9164	3.0583	9.4500e-003	0.6374	0.0104	0.6478	0.1717	0.0100	0.1818	0.0000	857.9023	857.9023	0.0189	0.0456	871.9511
Maximum	5.7636	1.9127	5.2366	0.0173	1.2962	0.0211	1.3137	0.5180	0.0201	0.5350	0.0000	1,590.724 0	1,590.724 0	0.1533	0.1022	1,623.447 7

	ROG	NOx	CO	SO2	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	8.83	44.07	-5.12	0.00	0.00	73.98	4.21	0.00	73.51	11.75	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	1-1-2027	3-31-2027	0.9347	0.1189
2	4-1-2027	6-30-2027	1.0054	0.1448
3	7-1-2027	9-30-2027	0.9583	0.5285
4	10-1-2027	12-31-2027	0.9701	0.6128
5	1-1-2028	3-31-2028	0.9454	0.5920
6	4-1-2028	6-30-2028	0.9244	0.5709
7	7-1-2028	9-30-2028	0.9346	0.5772

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8	10-1-2028	12-31-2028	0.9558	0.5985
9	1-1-2029	3-31-2029	0.9222	0.5726
10	4-1-2029	6-30-2029	0.9115	0.5581
11	7-1-2029	9-30-2029	0.9216	0.5642
12	10-1-2029	12-31-2029	0.9427	0.5853
13	1-1-2030	3-31-2030	0.7634	0.5587
14	4-1-2030	6-30-2030	0.7509	0.5440
15	7-1-2030	9-30-2030	0.7592	0.5500
16	10-1-2030	12-31-2030	0.7803	0.5711
17	1-1-2031	3-31-2031	0.7535	0.5488
18	4-1-2031	6-30-2031	0.6849	0.4754
19	7-1-2031	9-30-2031	0.6131	0.3961
		Highest	1.0054	0.6128

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.7877	0.0847	7.3516	3.9000e-004		0.0409	0.0409		0.0409	0.0409	0.0000	12.0421	12.0421	0.0115	0.0000	12.3294
Energy	0.0716	0.6513	0.5471	3.9100e-003		0.0495	0.0495		0.0495	0.0495	0.0000	1,304.6620	1,304.6620	0.1100	0.0247	1,314.7654
Mobile	0.0312	0.0788	0.3099	8.7000e-004	0.0955	8.3000e-004	0.0963	0.0256	7.8000e-004	0.0264	0.0000	80.4529	80.4529	3.4800e-003	5.2000e-003	82.0889
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	7.8906	0.8148	8.2085	5.1700e-003	0.0955	0.0912	0.1867	0.0256	0.0911	0.1167	0.0000	1,397.1571	1,397.1571	0.1249	0.0299	1,409.1837

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	7.7877	0.0847	7.3516	3.9000e-004		0.0409	0.0409		0.0409	0.0409	0.0000	12.0421	12.0421	0.0115	0.0000	12.3294
Energy	0.0716	0.6513	0.5471	3.9100e-003		0.0495	0.0495		0.0495	0.0495	0.0000	1,304.6620	1,304.6620	0.1100	0.0247	1,314.7654
Mobile	0.0312	0.0788	0.3099	8.7000e-004	0.0955	8.3000e-004	0.0963	0.0256	7.8000e-004	0.0264	0.0000	80.4529	80.4529	3.4800e-003	5.2000e-003	82.0889
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	7.8906	0.8148	8.2085	5.1700e-003	0.0955	0.0912	0.1867	0.0256	0.0911	0.1167	0.0000	1,397.1571	1,397.1571	0.1249	0.0299	1,409.1837

	ROG	NOx	CO	SO2	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	1C SP	Site Preparation	1/1/2027	2/22/2027	5	37	
2	1C G	Grading	2/23/2027	7/13/2027	5	101	
3	1C BC	Building Construction	7/14/2027	6/19/2031	5	1027	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	1C P	Paving	6/20/2031	9/24/2031	5	69
5	1C AC	Architectural Coating	9/25/2031	12/30/2031	5	69

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 60

Acres of Paving: 0

Residential Indoor: 2,737,352; Residential Outdoor: 912,451; Non-Residential Indoor: 877,903; Non-Residential Outdoor: 292,634; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
1C SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C BC	9	988.00	243.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C AC	1	198.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Reduce Vehicle Speed on Unpaved Roads

3.2 1C SP - 2027

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					0.3660	0.0000	0.3660	0.1872	0.0000	0.1872	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0458	0.4668	0.3314	7.0000e-004		0.0201	0.0201		0.0185	0.0185	0.0000	61.9139	61.9139	0.0200	0.0000	62.4145
Total	0.0458	0.4668	0.3314	7.0000e-004	0.3660	0.0201	0.3862	0.1872	0.0185	0.2057	0.0000	61.9139	61.9139	0.0200	0.0000	62.4145

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3.2 1C SP - 2027

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	8.8000e-004	5.3000e-004	7.1000e-003	2.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	7.1000e-004	1.0000e-005	7.2000e-004	0.0000	1.9397	1.9397	5.0000e-005	5.0000e-005	1.9567
Total	8.8000e-004	5.3000e-004	7.1000e-003	2.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	7.1000e-004	1.0000e-005	7.2000e-004	0.0000	1.9397	1.9397	5.0000e-005	5.0000e-005	1.9567

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					0.3660	0.0000	0.3660	0.1872	0.0000	0.1872	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4500e-003	0.0477	0.3851	7.0000e-004		1.5800e-003	1.5800e-003		1.5500e-003	1.5500e-003	0.0000	61.9139	61.9139	0.0200	0.0000	62.4145
Total	9.4500e-003	0.0477	0.3851	7.0000e-004	0.3660	1.5800e-003	0.3676	0.1872	1.5500e-003	0.1887	0.0000	61.9139	61.9139	0.0200	0.0000	62.4145

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1C SP - 2027

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	8.8000e-004	5.3000e-004	7.1000e-003	2.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	7.1000e-004	1.0000e-005	7.2000e-004	0.0000	1.9397	1.9397	5.0000e-005	5.0000e-005	1.9567
Total	8.8000e-004	5.3000e-004	7.1000e-003	2.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	7.1000e-004	1.0000e-005	7.2000e-004	0.0000	1.9397	1.9397	5.0000e-005	5.0000e-005	1.9567

3.3 1C G - 2027

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					0.3359	0.0000	0.3359	0.1706	0.0000	0.1706	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1465	1.4111	1.3297	3.1300e-003		0.0571	0.0571		0.0525	0.0525	0.0000	275.2564	275.2564	0.0890	0.0000	277.4820
Total	0.1465	1.4111	1.3297	3.1300e-003	0.3359	0.0571	0.3930	0.1706	0.0525	0.2231	0.0000	275.2564	275.2564	0.0890	0.0000	277.4820

VST_1C - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1C G - 2027

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	2.6600e-003	1.6000e-003	0.0216	6.0000e-005	8.0500e-003	4.0000e-005	8.0900e-003	2.1400e-003	4.0000e-005	2.1800e-003	0.0000	5.8830	5.8830	1.6000e-004	1.6000e-004	5.9346
Total	2.6600e-003	1.6000e-003	0.0216	6.0000e-005	8.0500e-003	4.0000e-005	8.0900e-003	2.1400e-003	4.0000e-005	2.1800e-003	0.0000	5.8830	5.8830	1.6000e-004	1.6000e-004	5.9346

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					0.3359	0.0000	0.3359	0.1706	0.0000	0.1706	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0396	0.1808	1.6651	3.1300e-003		5.7200e-003	5.7200e-003		5.6700e-003	5.6700e-003	0.0000	275.2560	275.2560	0.0890	0.0000	277.4816
Total	0.0396	0.1808	1.6651	3.1300e-003	0.3359	5.7200e-003	0.3417	0.1706	5.6700e-003	0.1763	0.0000	275.2560	275.2560	0.0890	0.0000	277.4816

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1C G - 2027

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	2.6600e-003	1.6000e-003	0.0216	6.0000e-005	8.0500e-003	4.0000e-005	8.0900e-003	2.1400e-003	4.0000e-005	2.1800e-003	0.0000	5.8830	5.8830	1.6000e-004	1.6000e-004	5.9346
Total	2.6600e-003	1.6000e-003	0.0216	6.0000e-005	8.0500e-003	4.0000e-005	8.0900e-003	2.1400e-003	4.0000e-005	2.1800e-003	0.0000	5.8830	5.8830	1.6000e-004	1.6000e-004	5.9346

3.4 1C BC - 2027

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	0.0841	0.7669	0.9892	1.6600e-003		0.0324	0.0324		0.0305	0.0305	0.0000	142.6305	142.6305	0.0335	0.0000	143.4687
Total	0.0841	0.7669	0.9892	1.6600e-003		0.0324	0.0324		0.0305	0.0305	0.0000	142.6305	142.6305	0.0335	0.0000	143.4687

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2027

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	0.0155	0.6619	0.1948	2.8300e-003	0.0989	4.3500e-003	0.1033	0.0286	4.1600e-003	0.0328	0.0000	271.3210	271.3210	9.1000e-004	0.0401	283.2991
Worker	0.1602	0.0961	1.2962	3.8600e-003	0.4846	2.3300e-003	0.4869	0.1288	2.1400e-003	0.1310	0.0000	353.9260	353.9260	9.5600e-003	9.6100e-003	357.0279
Total	0.1757	0.7580	1.4909	6.6900e-003	0.5835	6.6800e-003	0.5902	0.1574	6.3000e-003	0.1637	0.0000	625.2470	625.2470	0.0105	0.0497	640.3269

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	0.0220	0.1601	1.0716	1.6600e-003		3.4600e-003	3.4600e-003		3.3700e-003	3.3700e-003	0.0000	142.6303	142.6303	0.0335	0.0000	143.4685
Total	0.0220	0.1601	1.0716	1.6600e-003		3.4600e-003	3.4600e-003		3.3700e-003	3.3700e-003	0.0000	142.6303	142.6303	0.0335	0.0000	143.4685

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2027

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	0.0155	0.6619	0.1948	2.8300e-003	0.0989	4.3500e-003	0.1033	0.0286	4.1600e-003	0.0328	0.0000	271.3210	271.3210	9.1000e-004	0.0401	283.2991
Worker	0.1602	0.0961	1.2962	3.8600e-003	0.4846	2.3300e-003	0.4869	0.1288	2.1400e-003	0.1310	0.0000	353.9260	353.9260	9.5600e-003	9.6100e-003	357.0279
Total	0.1757	0.7580	1.4909	6.6900e-003	0.5835	6.6800e-003	0.5902	0.1574	6.3000e-003	0.1637	0.0000	625.2470	625.2470	0.0105	0.0497	640.3269

3.4 1C BC - 2028

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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

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3.4 1C BC - 2028

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	0.0322	1.3915	0.4055	5.8700e-003	0.2091	9.1400e-003	0.2183	0.0605	8.7400e-003	0.0692	0.0000	562.3553	562.3553	1.8700e-003	0.0830	587.1448
Worker	0.3135	0.1828	2.5659	7.9300e-003	1.0243	4.6100e-003	1.0289	0.2723	4.2400e-003	0.2766	0.0000	726.8738	726.8738	0.0184	0.0191	733.0362
Total	0.3457	1.5743	2.9714	0.0138	1.2335	0.0138	1.2472	0.3328	0.0130	0.3457	0.0000	1,289.2291	1,289.2291	0.0202	0.1022	1,320.1810

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	0.0465	0.3384	2.2652	3.5000e-003		7.3100e-003	7.3100e-003		7.1300e-003	7.1300e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.0465	0.3384	2.2652	3.5000e-003		7.3100e-003	7.3100e-003		7.1300e-003	7.1300e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2028

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	0.0322	1.3915	0.4055	5.8700e-003	0.2091	9.1400e-003	0.2183	0.0605	8.7400e-003	0.0692	0.0000	562.3553	562.3553	1.8700e-003	0.0830	587.1448
Worker	0.3135	0.1828	2.5659	7.9300e-003	1.0243	4.6100e-003	1.0289	0.2723	4.2400e-003	0.2766	0.0000	726.8738	726.8738	0.0184	0.0191	733.0362
Total	0.3457	1.5743	2.9714	0.0138	1.2335	0.0138	1.2472	0.3328	0.0130	0.3457	0.0000	1,289.2291	1,289.2291	0.0202	0.1022	1,320.1810

3.4 1C BC - 2029

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2029

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	0.0318	1.3884	0.4020	5.7800e-003	0.2099	9.1000e-003	0.2190	0.0607	8.7000e-003	0.0694	0.0000	553.6913	553.6913	1.8500e-003	0.0816	578.0637
Worker	0.2914	0.1663	2.4263	7.7500e-003	1.0283	4.3200e-003	1.0326	0.2734	3.9800e-003	0.2773	0.0000	710.4362	710.4362	0.0168	0.0182	716.2886
Total	0.3232	1.5547	2.8283	0.0135	1.2382	0.0134	1.2516	0.3340	0.0127	0.3467	0.0000	1,264.1275	1,264.1275	0.0187	0.0999	1,294.3523

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	0.0467	0.3398	2.2739	3.5200e-003		7.3400e-003	7.3400e-003		7.1600e-003	7.1600e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0467	0.3398	2.2739	3.5200e-003		7.3400e-003	7.3400e-003		7.1600e-003	7.1600e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2029

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	0.0318	1.3884	0.4020	5.7800e-003	0.2099	9.1000e-003	0.2190	0.0607	8.7000e-003	0.0694	0.0000	553.6913	553.6913	1.8500e-003	0.0816	578.0637
Worker	0.2914	0.1663	2.4263	7.7500e-003	1.0283	4.3200e-003	1.0326	0.2734	3.9800e-003	0.2773	0.0000	710.4362	710.4362	0.0168	0.0182	716.2886
Total	0.3232	1.5547	2.8283	0.0135	1.2382	0.0134	1.2516	0.3340	0.0127	0.3467	0.0000	1,264.1275	1,264.1275	0.0187	0.0999	1,294.3523

3.4 1C BC - 2030

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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

VST_1C - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2030

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	0.0313	1.3822	0.3977	5.6800e-003	0.2099	9.0400e-003	0.2190	0.0607	8.6500e-003	0.0693	0.0000	543.8837	543.8837	1.8200e-003	0.0801	567.7921
Worker	0.2695	0.1516	2.3000	7.5600e-003	1.0283	4.0400e-003	1.0323	0.2734	3.7200e-003	0.2771	0.0000	693.1817	693.1817	0.0154	0.0174	698.7521
Total	0.3008	1.5339	2.6978	0.0132	1.2382	0.0131	1.2513	0.3340	0.0124	0.3464	0.0000	1,237.0654	1,237.0654	0.0172	0.0975	1,266.5442

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	0.0483	0.3271	2.2787	4.0400e-003		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.0483	0.3271	2.2787	4.0400e-003		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2030

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	0.0313	1.3822	0.3977	5.6800e-003	0.2099	9.0400e-003	0.2190	0.0607	8.6500e-003	0.0693	0.0000	543.8837	543.8837	1.8200e-003	0.0801	567.7921
Worker	0.2695	0.1516	2.3000	7.5600e-003	1.0283	4.0400e-003	1.0323	0.2734	3.7200e-003	0.2771	0.0000	693.1817	693.1817	0.0154	0.0174	698.7521
Total	0.3008	1.5339	2.6978	0.0132	1.2382	0.0131	1.2513	0.3340	0.0124	0.3464	0.0000	1,237.0654	1,237.0654	0.0172	0.0975	1,266.5442

3.4 1C BC - 2031

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	0.0799	0.4840	0.9856	1.8900e-003		9.0400e-003	9.0400e-003		9.0400e-003	9.0400e-003	0.0000	160.3452	160.3452	6.4300e-003	0.0000	160.5060
Total	0.0799	0.4840	0.9856	1.8900e-003		9.0400e-003	9.0400e-003		9.0400e-003	9.0400e-003	0.0000	160.3452	160.3452	6.4300e-003	0.0000	160.5060

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2031

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	0.0145	0.6442	0.1845	2.6100e-003	0.0981	4.2100e-003	0.1023	0.0284	4.0200e-003	0.0324	0.0000	250.1749	250.1749	8.4000e-004	0.0368	261.1614
Worker	0.1161	0.0650	1.0239	3.4500e-003	0.4807	1.7600e-003	0.4824	0.1278	1.6200e-003	0.1294	0.0000	316.8026	316.8026	6.6100e-003	7.8100e-003	319.2939
Total	0.1306	0.7092	1.2084	6.0600e-003	0.5788	5.9700e-003	0.5848	0.1561	5.6400e-003	0.1618	0.0000	566.9775	566.9775	7.4500e-003	0.0446	580.4554

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	0.0226	0.1529	1.0651	1.8900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	160.3450	160.3450	6.4300e-003	0.0000	160.5059
Total	0.0226	0.1529	1.0651	1.8900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	160.3450	160.3450	6.4300e-003	0.0000	160.5059

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2031

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	0.0145	0.6442	0.1845	2.6100e-003	0.0981	4.2100e-003	0.1023	0.0284	4.0200e-003	0.0324	0.0000	250.1749	250.1749	8.4000e-004	0.0368	261.1614
Worker	0.1161	0.0650	1.0239	3.4500e-003	0.4807	1.7600e-003	0.4824	0.1278	1.6200e-003	0.1294	0.0000	316.8026	316.8026	6.6100e-003	7.8100e-003	319.2939
Total	0.1306	0.7092	1.2084	6.0600e-003	0.5788	5.9700e-003	0.5848	0.1561	5.6400e-003	0.1618	0.0000	566.9775	566.9775	7.4500e-003	0.0446	580.4554

3.5 1C P - 2031

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	0.0478	0.2457	0.5468	9.7000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	83.1433	83.1433	3.9000e-003	0.0000	83.2408
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0478	0.2457	0.5468	9.7000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	83.1433	83.1433	3.9000e-003	0.0000	83.2408

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1C P - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	5.6000e-004	8.7900e-003	3.0000e-005	4.1300e-003	2.0000e-005	4.1400e-003	1.1000e-003	1.0000e-005	1.1100e-003	0.0000	2.7203	2.7203	6.0000e-005	7.0000e-005	2.7417
Total	1.0000e-003	5.6000e-004	8.7900e-003	3.0000e-005	4.1300e-003	2.0000e-005	4.1400e-003	1.1000e-003	1.0000e-005	1.1100e-003	0.0000	2.7203	2.7203	6.0000e-005	7.0000e-005	2.7417

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	9.6800e-003	0.0419	0.5967	9.7000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	83.1432	83.1432	3.9000e-003	0.0000	83.2407
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.6800e-003	0.0419	0.5967	9.7000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	83.1432	83.1432	3.9000e-003	0.0000	83.2407

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1C P - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	5.6000e-004	8.7900e-003	3.0000e-005	4.1300e-003	2.0000e-005	4.1400e-003	1.1000e-003	1.0000e-005	1.1100e-003	0.0000	2.7203	2.7203	6.0000e-005	7.0000e-005	2.7417
Total	1.0000e-003	5.6000e-004	8.7900e-003	3.0000e-005	4.1300e-003	2.0000e-005	4.1400e-003	1.1000e-003	1.0000e-005	1.1100e-003	0.0000	2.7203	2.7203	6.0000e-005	7.0000e-005	2.7417

3.6 1C AC - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.5856					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5100e-003	0.0295	0.0620	1.0000e-004		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	8.8087	8.8087	3.6000e-004	0.0000	8.8176
Total	5.5901	0.0295	0.0620	1.0000e-004		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	8.8087	8.8087	3.6000e-004	0.0000	8.8176

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1C AC - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0132	7.3600e-003	0.1161	3.9000e-004	0.0545	2.0000e-004	0.0547	0.0145	1.8000e-004	0.0147	0.0000	35.9076	35.9076	7.5000e-004	8.8000e-004	36.1900
Total	0.0132	7.3600e-003	0.1161	3.9000e-004	0.0545	2.0000e-004	0.0547	0.0145	1.8000e-004	0.0147	0.0000	35.9076	35.9076	7.5000e-004	8.8000e-004	36.1900

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.5856					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0300e-003	4.4400e-003	0.0632	1.0000e-004		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	8.8087	8.8087	3.6000e-004	0.0000	8.8176
Total	5.5866	4.4400e-003	0.0632	1.0000e-004		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	8.8087	8.8087	3.6000e-004	0.0000	8.8176

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1C AC - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0132	7.3600e-003	0.1161	3.9000e-004	0.0545	2.0000e-004	0.0547	0.0145	1.8000e-004	0.0147	0.0000	35.9076	35.9076	7.5000e-004	8.8000e-004	36.1900
Total	0.0132	7.3600e-003	0.1161	3.9000e-004	0.0545	2.0000e-004	0.0547	0.0145	1.8000e-004	0.0147	0.0000	35.9076	35.9076	7.5000e-004	8.8000e-004	36.1900

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	0.0312	0.0788	0.3099	8.7000e-004	0.0955	8.3000e-004	0.0963	0.0256	7.8000e-004	0.0264	0.0000	80.4529	80.4529	3.4800e-003	5.2000e-003	82.0889
Unmitigated	0.0312	0.0788	0.3099	8.7000e-004	0.0955	8.3000e-004	0.0963	0.0256	7.8000e-004	0.0264	0.0000	80.4529	80.4529	3.4800e-003	5.2000e-003	82.0889

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	0.00	0.00	0.00		
Apartments High Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Junior High School	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Single Family Housing	0.00	610.56	0.00	254,055	254,055
Office Park	0.00	0.00	0.00		
Total	0.00	610.56	0.00	254,055	254,055

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00	63	25	12
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Condo/Townhouse	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Junior High School	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
City Park	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Single Family Housing	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Office Park	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	595.6982	595.6982	0.0964	0.0117	601.5886
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	595.6982	595.6982	0.0964	0.0117	601.5886
NaturalGas Mitigated	0.0716	0.6513	0.5471	3.9100e-003		0.0495	0.0495		0.0495	0.0495	0.0000	708.9638	708.9638	0.0136	0.0130	713.1769
NaturalGas Unmitigated	0.0716	0.6513	0.5471	3.9100e-003		0.0495	0.0495		0.0495	0.0495	0.0000	708.9638	708.9638	0.0136	0.0130	713.1769

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Apartments High Rise	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	0.0000	0.0000
City Park	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	0.0000	0.0000
Condo/Townhouse	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	0.0000	0.0000
Junior High School	877481	4.7300e-003	0.0430	0.0361	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	46.8257	46.8257	9.0000e-004	8.6000e-004	47.1040	
Office Park	1.2408e+007	0.0669	0.6082	0.5109	3.6500e-003		0.0462	0.0462		0.0462	0.0462	0.0000	662.1381	662.1381	0.0127	0.0121	666.0729	
Single Family Housing	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	0.0000	
Total		0.0716	0.6513	0.5471	3.9100e-003		0.0495	0.0495		0.0495	0.0495	0.0000	708.9638	708.9638	0.0136	0.0130	713.1769	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr						
Apartments High Rise	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	0.0000	0.0000
City Park	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	0.0000	0.0000
Condo/Townhouse	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	0.0000	0.0000
Junior High School	877481	4.7300e-003	0.0430	0.0361	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	46.8257	46.8257	9.0000e-004	8.6000e-004	47.1040	
Office Park	1.2408e+007	0.0669	0.6082	0.5109	3.6500e-003		0.0462	0.0462		0.0462	0.0462	0.0000	662.1381	662.1381	0.0127	0.0121	666.0729	
Single Family Housing	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	0.0000	
Total		0.0716	0.6513	0.5471	3.9100e-003		0.0495	0.0495		0.0495	0.0495	0.0000	708.9638	708.9638	0.0136	0.0130	713.1769	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Junior High School	239826	22.1896	3.5900e-003	4.4000e-004	22.4090
Office Park	6.1985e+006	573.5086	0.0928	0.0113	579.1796
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		595.6982	0.0964	0.0117	601.5886

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Junior High School	239826	22.1896	3.5900e-003	4.4000e-004	22.4090
Office Park	6.1985e+006	573.5086	0.0928	0.0113	579.1796
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		595.6982	0.0964	0.0117	601.5886

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	7.7877	0.0847	7.3516	3.9000e-004		0.0409	0.0409		0.0409	0.0409	0.0000	12.0421	12.0421	0.0115	0.0000	12.3294
Unmitigated	7.7877	0.0847	7.3516	3.9000e-004		0.0409	0.0409		0.0409	0.0409	0.0000	12.0421	12.0421	0.0115	0.0000	12.3294

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.5675					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2202	0.0847	7.3516	3.9000e-004		0.0409	0.0409		0.0409	0.0409	0.0000	12.0421	12.0421	0.0115	0.0000	12.3294
Total	7.7877	0.0847	7.3516	3.9000e-004		0.0409	0.0409		0.0409	0.0409	0.0000	12.0421	12.0421	0.0115	0.0000	12.3294

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.5675					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2202	0.0847	7.3516	3.9000e-004		0.0409	0.0409		0.0409	0.0409	0.0000	12.0421	12.0421	0.0115	0.0000	12.3294
Total	7.7877	0.0847	7.3516	3.9000e-004		0.0409	0.0409		0.0409	0.0409	0.0000	12.0421	12.0421	0.0115	0.0000	12.3294

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Junior High School	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

VST_1C - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Junior High School	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Junior High School	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Junior High School	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_1D

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.30	Acre	7.30	317,988.00	0
City Park	1.40	Acre	1.40	60,984.00	0
Single Family Housing	24.00	Dwelling Unit	2.75	28,800.00	69
Single Family Housing	141.00	Dwelling Unit	23.60	211,500.00	403
Regional Shopping Center	175.00	1000sqft	4.01	175,000.00	0
Free-Standing Discount store	32.50	1000sqft	0.75	32,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2033
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (1D)

Construction Phase - Dates from modeling data document and project description (1D)

Off-road Equipment - defaults

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

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Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT study

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - tier 4 engines, 15 mph speed limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Water And Wastewater - in operational model

Solid Waste - in operational model

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	103750	0
tblAreaCoating	Area_Nonresidential_Interior	311250	0
tblAreaCoating	Area_Residential_Exterior	162203	0
tblAreaCoating	Area_Residential_Interior	486608	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	37.00
tblConstructionPhase	NumDays	75.00	102.00
tblConstructionPhase	NumDays	740.00	1,027.00

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tblConstructionPhase	NumDays	55.00	69.00
tblConstructionPhase	NumDays	55.00	69.00
tblConstructionPhase	PhaseEndDate	5/12/2027	5/21/2027
tblConstructionPhase	PhaseEndDate	8/25/2027	10/12/2027
tblConstructionPhase	PhaseEndDate	6/26/2030	9/18/2031
tblConstructionPhase	PhaseEndDate	11/27/2030	3/30/2032
tblConstructionPhase	PhaseEndDate	9/11/2030	12/24/2031
tblConstructionPhase	PhaseStartDate	5/13/2027	5/22/2027
tblConstructionPhase	PhaseStartDate	8/26/2027	10/13/2027
tblConstructionPhase	PhaseStartDate	9/12/2030	12/25/2031
tblConstructionPhase	PhaseStartDate	6/27/2030	9/19/2031
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberGas	90.75	0.00
tblFireplaces	NumberNoFireplace	74.25	0.00
tblGrading	AcresOfGrading	306.00	45.00
tblGrading	AcresOfGrading	55.50	45.00
tblLandUse	LandUseSquareFeet	43,200.00	28,800.00
tblLandUse	LandUseSquareFeet	253,800.00	211,500.00
tblLandUse	LotAcreage	7.79	2.75
tblLandUse	LotAcreage	45.78	23.60
tblLandUse	LotAcreage	4.02	4.01
tblSolidWaste	SolidWasteGenerationRate	139.77	0.00
tblSolidWaste	SolidWasteGenerationRate	0.75	0.00
tblSolidWaste	SolidWasteGenerationRate	183.75	0.00
tblSolidWaste	SolidWasteGenerationRate	169.92	0.00
tblVehicleTrips	ST_TR	70.76	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	60.21	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	53.12	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,407,356.95	0.00
tblWater	IndoorWaterUseRate	12,962,691.26	0.00
tblWater	IndoorWaterUseRate	10,750,414.23	0.00
tblWater	OutdoorWaterUseRate	1,475,476.84	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	OutdoorWaterUseRate	10,365,887.74	0.00
tblWater	OutdoorWaterUseRate	7,944,875.29	0.00
tblWater	OutdoorWaterUseRate	6,777,435.06	0.00
tblWoodstoves	NumberCatalytic	26.35	0.00
tblWoodstoves	NumberNoncatalytic	26.35	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.2622	2.4152	2.3890	5.8900e-003	0.7877	0.0944	0.8821	0.3844	0.0872	0.4716	0.0000	523.1963	523.1963	0.1275	0.0104	529.4806
2028	0.2833	2.3266	3.0214	8.5500e-003	0.3936	0.0742	0.4678	0.1069	0.0698	0.1768	0.0000	774.9914	774.9914	0.0770	0.0445	790.1705
2029	0.2774	2.3266	2.9875	8.4700e-003	0.3951	0.0744	0.4695	0.1073	0.0700	0.1773	0.0000	767.3448	767.3448	0.0769	0.0436	782.2456
2030	0.2633	1.7277	2.9586	8.8900e-003	0.3951	0.0247	0.4199	0.1073	0.0245	0.1318	0.0000	798.1452	798.1452	0.0191	0.0426	811.3124
2031	0.3228	1.4824	2.6586	7.3100e-003	0.2884	0.0291	0.3175	0.0783	0.0289	0.1072	0.0000	652.9974	652.9974	0.0174	0.0300	662.3711
2032	1.1508	0.0292	0.0872	2.0000e-004	0.0146	7.0000e-004	0.0153	3.8700e-003	7.0000e-004	4.5600e-003	0.0000	17.5644	17.5644	5.2000e-004	2.3000e-004	17.6453
Maximum	1.1508	2.4152	3.0214	8.8900e-003	0.7877	0.0944	0.8821	0.3844	0.0872	0.4716	0.0000	798.1452	798.1452	0.1275	0.0445	811.3124

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

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					
2027	0.0886	0.4675	2.8202	5.8900e-003	0.7877	0.0103	0.7980	0.3844	0.0101	0.3945	0.0000	523.1959	523.1959	0.1275	0.0104	529.4801
2028	0.1520	1.0440	3.1956	8.5500e-003	0.3936	0.0129	0.4065	0.1069	0.0125	0.1194	0.0000	774.9911	774.9911	0.0770	0.0445	790.1701
2029	0.1456	1.0391	3.1624	8.4700e-003	0.3951	0.0129	0.4080	0.1073	0.0124	0.1197	0.0000	767.3445	767.3445	0.0769	0.0436	782.2453
2030	0.1407	1.0193	3.1288	8.8900e-003	0.3951	0.0113	0.4064	0.1073	0.0110	0.1184	0.0000	798.1448	798.1448	0.0191	0.0426	811.3120
2031	0.1967	0.7693	2.8305	7.3100e-003	0.2884	9.3500e-003	0.2977	0.0783	9.1500e-003	0.0874	0.0000	652.9970	652.9970	0.0174	0.0300	662.3707
2032	1.1476	5.9400e-003	0.0883	2.0000e-004	0.0146	1.8000e-004	0.0147	3.8700e-003	1.7000e-004	4.0400e-003	0.0000	17.5644	17.5644	5.2000e-004	2.3000e-004	17.6453
Maximum	1.1476	1.0440	3.1956	8.8900e-003	0.7877	0.0129	0.7980	0.3844	0.0125	0.3945	0.0000	798.1448	798.1448	0.1275	0.0445	811.3120

	ROG	NOx	CO	SO2	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	26.90	57.85	-7.97	0.00	0.00	80.87	9.36	0.00	80.32	21.12	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	4-1-2027	6-30-2027	0.9481	0.1214
2	7-1-2027	9-30-2027	1.0164	0.1464
3	10-1-2027	12-31-2027	0.7154	0.2912
4	1-1-2028	3-31-2028	0.6585	0.3050
5	4-1-2028	6-30-2028	0.6484	0.2949

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6	7-1-2028	9-30-2028	0.6555	0.2981
7	10-1-2028	12-31-2028	0.6657	0.3084
8	1-1-2029	3-31-2029	0.6471	0.2976
9	4-1-2029	6-30-2029	0.6443	0.2908
10	7-1-2029	9-30-2029	0.6513	0.2940
11	10-1-2029	12-31-2029	0.6615	0.3042
12	1-1-2030	3-31-2030	0.4960	0.2913
13	4-1-2030	6-30-2030	0.4914	0.2845
14	7-1-2030	9-30-2030	0.4968	0.2876
15	10-1-2030	12-31-2030	0.5070	0.2978
16	1-1-2031	3-31-2031	0.4929	0.2883
17	4-1-2031	6-30-2031	0.4883	0.2814
18	7-1-2031	9-30-2031	0.4660	0.2540
19	10-1-2031	12-31-2031	0.3519	0.1370
20	1-1-2032	3-31-2032	1.1856	1.1590
		Highest	1.1856	1.1590

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7892	0.0141	1.2239	6.0000e-005		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	2.0051	2.0051	1.9200e-003	0.0000	2.0530
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.7892	0.0141	1.2239	6.0000e-005	0.0000	6.8000e-003	6.8000e-003	0.0000	6.8000e-003	6.8000e-003	0.0000	2.0051	2.0051	1.9200e-003	0.0000	2.0530

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	1.7892	0.0141	1.2239	6.0000e-005		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	2.0051	2.0051	1.9200e-003	0.0000	2.0530
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.7892	0.0141	1.2239	6.0000e-005	0.0000	6.8000e-003	6.8000e-003	0.0000	6.8000e-003	6.8000e-003	0.0000	2.0051	2.0051	1.9200e-003	0.0000	2.0530

	ROG	NOx	CO	SO2	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	1D SP	Site Preparation	4/1/2027	5/21/2027	5	37	
2	1D G	Grading	5/22/2027	10/12/2027	5	102	
3	1D BC	Building Construction	10/13/2027	9/18/2031	5	1027	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	1D P	Paving	9/19/2031	12/24/2031	5	69
5	1D AC	Architectural Coating	12/25/2031	3/30/2032	5	69

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 486,608; Residential Outdoor: 162,203; Non-Residential Indoor: 311,250; Non-Residential Outdoor: 103,750; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
1D SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D BC	9	285.00	114.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D AC	1	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Reduce Vehicle Speed on Unpaved Roads

3.2 1D SP - 2027

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					0.3581	0.0000	0.3581	0.1863	0.0000	0.1863	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0458	0.4668	0.3314	7.0000e-004		0.0201	0.0201		0.0185	0.0185	0.0000	61.9139	61.9139	0.0200	0.0000	62.4145
Total	0.0458	0.4668	0.3314	7.0000e-004	0.3581	0.0201	0.3782	0.1863	0.0185	0.2048	0.0000	61.9139	61.9139	0.0200	0.0000	62.4145

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1D SP - 2027

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	8.8000e-004	5.3000e-004	7.1000e-003	2.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	7.1000e-004	1.0000e-005	7.2000e-004	0.0000	1.9397	1.9397	5.0000e-005	5.0000e-005	1.9567
Total	8.8000e-004	5.3000e-004	7.1000e-003	2.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	7.1000e-004	1.0000e-005	7.2000e-004	0.0000	1.9397	1.9397	5.0000e-005	5.0000e-005	1.9567

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					0.3581	0.0000	0.3581	0.1863	0.0000	0.1863	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4500e-003	0.0477	0.3851	7.0000e-004		1.5800e-003	1.5800e-003		1.5500e-003	1.5500e-003	0.0000	61.9139	61.9139	0.0200	0.0000	62.4145
Total	9.4500e-003	0.0477	0.3851	7.0000e-004	0.3581	1.5800e-003	0.3597	0.1863	1.5500e-003	0.1878	0.0000	61.9139	61.9139	0.0200	0.0000	62.4145

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1D SP - 2027

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	8.8000e-004	5.3000e-004	7.1000e-003	2.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	7.1000e-004	1.0000e-005	7.2000e-004	0.0000	1.9397	1.9397	5.0000e-005	5.0000e-005	1.9567
Total	8.8000e-004	5.3000e-004	7.1000e-003	2.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	7.1000e-004	1.0000e-005	7.2000e-004	0.0000	1.9397	1.9397	5.0000e-005	5.0000e-005	1.9567

3.3 1D G - 2027

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					0.3310	0.0000	0.3310	0.1714	0.0000	0.1714	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1480	1.4251	1.3429	3.1700e-003		0.0577	0.0577		0.0531	0.0531	0.0000	277.9817	277.9817	0.0899	0.0000	280.2293
Total	0.1480	1.4251	1.3429	3.1700e-003	0.3310	0.0577	0.3887	0.1714	0.0531	0.2245	0.0000	277.9817	277.9817	0.0899	0.0000	280.2293

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1D G - 2027

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	2.6900e-003	1.6100e-003	0.0218	6.0000e-005	8.1300e-003	4.0000e-005	8.1700e-003	2.1600e-003	4.0000e-005	2.2000e-003	0.0000	5.9413	5.9413	1.6000e-004	1.6000e-004	5.9934
Total	2.6900e-003	1.6100e-003	0.0218	6.0000e-005	8.1300e-003	4.0000e-005	8.1700e-003	2.1600e-003	4.0000e-005	2.2000e-003	0.0000	5.9413	5.9413	1.6000e-004	1.6000e-004	5.9934

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					0.3310	0.0000	0.3310	0.1714	0.0000	0.1714	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0400	0.1826	1.6816	3.1700e-003		5.7800e-003	5.7800e-003		5.7300e-003	5.7300e-003	0.0000	277.9814	277.9814	0.0899	0.0000	280.2290
Total	0.0400	0.1826	1.6816	3.1700e-003	0.3310	5.7800e-003	0.3368	0.1714	5.7300e-003	0.1771	0.0000	277.9814	277.9814	0.0899	0.0000	280.2290

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1D G - 2027

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	2.6900e-003	1.6100e-003	0.0218	6.0000e-005	8.1300e-003	4.0000e-005	8.1700e-003	2.1600e-003	4.0000e-005	2.2000e-003	0.0000	5.9413	5.9413	1.6000e-004	1.6000e-004	5.9934
Total	2.6900e-003	1.6100e-003	0.0218	6.0000e-005	8.1300e-003	4.0000e-005	8.1700e-003	2.1600e-003	4.0000e-005	2.2000e-003	0.0000	5.9413	5.9413	1.6000e-004	1.6000e-004	5.9934

3.4 1D BC - 2027

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	0.0397	0.3616	0.4665	7.8000e-004		0.0153	0.0153		0.0144	0.0144	0.0000	67.2566	67.2566	0.0158	0.0000	67.6519
Total	0.0397	0.3616	0.4665	7.8000e-004		0.0153	0.0153		0.0144	0.0144	0.0000	67.2566	67.2566	0.0158	0.0000	67.6519

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2027

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	3.4300e-003	0.1464	0.0431	6.3000e-004	0.0219	9.6000e-004	0.0229	6.3300e-003	9.2000e-004	7.2500e-003	0.0000	60.0212	60.0212	2.0000e-004	8.8700e-003	62.6710
Worker	0.0218	0.0131	0.1763	5.3000e-004	0.0659	3.2000e-004	0.0662	0.0175	2.9000e-004	0.0178	0.0000	48.1419	48.1419	1.3000e-003	1.3100e-003	48.5638
Total	0.0252	0.1595	0.2194	1.1600e-003	0.0878	1.2800e-003	0.0891	0.0239	1.2100e-003	0.0251	0.0000	108.1631	108.1631	1.5000e-003	0.0102	111.2348

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	0.0104	0.0755	0.5053	7.8000e-004		1.6300e-003	1.6300e-003		1.5900e-003	1.5900e-003	0.0000	67.2566	67.2566	0.0158	0.0000	67.6518
Total	0.0104	0.0755	0.5053	7.8000e-004		1.6300e-003	1.6300e-003		1.5900e-003	1.5900e-003	0.0000	67.2566	67.2566	0.0158	0.0000	67.6518

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2027

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	3.4300e-003	0.1464	0.0431	6.3000e-004	0.0219	9.6000e-004	0.0229	6.3300e-003	9.2000e-004	7.2500e-003	0.0000	60.0212	60.0212	2.0000e-004	8.8700e-003	62.6710
Worker	0.0218	0.0131	0.1763	5.3000e-004	0.0659	3.2000e-004	0.0662	0.0175	2.9000e-004	0.0178	0.0000	48.1419	48.1419	1.3000e-003	1.3100e-003	48.5638
Total	0.0252	0.1595	0.2194	1.1600e-003	0.0878	1.2800e-003	0.0891	0.0239	1.2100e-003	0.0251	0.0000	108.1631	108.1631	1.5000e-003	0.0102	111.2348

3.4 1D BC - 2028

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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2028

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	0.0151	0.6528	0.1902	2.7600e-003	0.0981	4.2900e-003	0.1024	0.0284	4.1000e-003	0.0325	0.0000	263.8210	263.8210	8.8000e-004	0.0390	275.4507
Worker	0.0904	0.0527	0.7402	2.2900e-003	0.2955	1.3300e-003	0.2968	0.0786	1.2200e-003	0.0798	0.0000	209.6751	209.6751	5.2900e-003	5.5200e-003	211.4527
Total	0.1055	0.7055	0.9304	5.0500e-003	0.3936	5.6200e-003	0.3992	0.1069	5.3200e-003	0.1122	0.0000	473.4961	473.4961	6.1700e-003	0.0445	486.9034

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	0.0465	0.3384	2.2652	3.5000e-003		7.3100e-003	7.3100e-003		7.1300e-003	7.1300e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.0465	0.3384	2.2652	3.5000e-003		7.3100e-003	7.3100e-003		7.1300e-003	7.1300e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2028

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	0.0151	0.6528	0.1902	2.7600e-003	0.0981	4.2900e-003	0.1024	0.0284	4.1000e-003	0.0325	0.0000	263.8210	263.8210	8.8000e-004	0.0390	275.4507
Worker	0.0904	0.0527	0.7402	2.2900e-003	0.2955	1.3300e-003	0.2968	0.0786	1.2200e-003	0.0798	0.0000	209.6751	209.6751	5.2900e-003	5.5200e-003	211.4527
Total	0.1055	0.7055	0.9304	5.0500e-003	0.3936	5.6200e-003	0.3992	0.1069	5.3200e-003	0.1122	0.0000	473.4961	473.4961	6.1700e-003	0.0445	486.9034

3.4 1D BC - 2029

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2029

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	0.0149	0.6514	0.1886	2.7100e-003	0.0985	4.2700e-003	0.1028	0.0285	4.0800e-003	0.0326	0.0000	259.7564	259.7564	8.7000e-004	0.0383	271.1904
Worker	0.0841	0.0480	0.6999	2.2300e-003	0.2966	1.2500e-003	0.2979	0.0789	1.1500e-003	0.0800	0.0000	204.9335	204.9335	4.8500e-003	5.2600e-003	206.6217
Total	0.0990	0.6993	0.8885	4.9400e-003	0.3951	5.5200e-003	0.4006	0.1073	5.2300e-003	0.1126	0.0000	464.6899	464.6899	5.7200e-003	0.0436	477.8121

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	0.0467	0.3398	2.2739	3.5200e-003		7.3400e-003	7.3400e-003		7.1600e-003	7.1600e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0467	0.3398	2.2739	3.5200e-003		7.3400e-003	7.3400e-003		7.1600e-003	7.1600e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2029

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	0.0149	0.6514	0.1886	2.7100e-003	0.0985	4.2700e-003	0.1028	0.0285	4.0800e-003	0.0326	0.0000	259.7564	259.7564	8.7000e-004	0.0383	271.1904
Worker	0.0841	0.0480	0.6999	2.2300e-003	0.2966	1.2500e-003	0.2979	0.0789	1.1500e-003	0.0800	0.0000	204.9335	204.9335	4.8500e-003	5.2600e-003	206.6217
Total	0.0990	0.6993	0.8885	4.9400e-003	0.3951	5.5200e-003	0.4006	0.1073	5.2300e-003	0.1126	0.0000	464.6899	464.6899	5.7200e-003	0.0436	477.8121

3.4 1D BC - 2030

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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2030

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	0.0147	0.6484	0.1866	2.6600e-003	0.0985	4.2400e-003	0.1027	0.0285	4.0600e-003	0.0325	0.0000	255.1553	255.1553	8.5000e-004	0.0376	266.3716
Worker	0.0777	0.0437	0.6635	2.1800e-003	0.2966	1.1700e-003	0.2978	0.0789	1.0700e-003	0.0799	0.0000	199.9563	199.9563	4.4400e-003	5.0200e-003	201.5631
Total	0.0924	0.6922	0.8501	4.8400e-003	0.3951	5.4100e-003	0.4005	0.1073	5.1300e-003	0.1125	0.0000	455.1116	455.1116	5.2900e-003	0.0426	467.9347

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	0.0483	0.3271	2.2787	4.0400e-003		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.0483	0.3271	2.2787	4.0400e-003		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2030

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	0.0147	0.6484	0.1866	2.6600e-003	0.0985	4.2400e-003	0.1027	0.0285	4.0600e-003	0.0325	0.0000	255.1553	255.1553	8.5000e-004	0.0376	266.3716
Worker	0.0777	0.0437	0.6635	2.1800e-003	0.2966	1.1700e-003	0.2978	0.0789	1.0700e-003	0.0799	0.0000	199.9563	199.9563	4.4400e-003	5.0200e-003	201.5631
Total	0.0924	0.6922	0.8501	4.8400e-003	0.3951	5.4100e-003	0.4005	0.1073	5.1300e-003	0.1125	0.0000	455.1116	455.1116	5.2900e-003	0.0426	467.9347

3.4 1D BC - 2031

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	0.1224	0.7419	1.5107	2.8900e-003		0.0139	0.0139		0.0139	0.0139	0.0000	245.7751	245.7751	9.8600e-003	0.0000	246.0216
Total	0.1224	0.7419	1.5107	2.8900e-003		0.0139	0.0139		0.0139	0.0139	0.0000	245.7751	245.7751	9.8600e-003	0.0000	246.0216

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2031

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	0.0104	0.4633	0.1326	1.8800e-003	0.0706	3.0200e-003	0.0736	0.0204	2.8900e-003	0.0233	0.0000	179.8971	179.8971	6.0000e-004	0.0265	187.7973
Worker	0.0513	0.0287	0.4527	1.5300e-003	0.2125	7.8000e-004	0.2133	0.0565	7.2000e-004	0.0572	0.0000	140.0743	140.0743	2.9200e-003	3.4500e-003	141.1758
Total	0.0617	0.4920	0.5854	3.4100e-003	0.2831	3.8000e-003	0.2869	0.0769	3.6100e-003	0.0805	0.0000	319.9713	319.9713	3.5200e-003	0.0299	328.9732

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	0.0346	0.2344	1.6326	2.8900e-003		4.2200e-003	4.2200e-003		4.2200e-003	4.2200e-003	0.0000	245.7748	245.7748	9.8600e-003	0.0000	246.0213
Total	0.0346	0.2344	1.6326	2.8900e-003		4.2200e-003	4.2200e-003		4.2200e-003	4.2200e-003	0.0000	245.7748	245.7748	9.8600e-003	0.0000	246.0213

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2031

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	0.0104	0.4633	0.1326	1.8800e-003	0.0706	3.0200e-003	0.0736	0.0204	2.8900e-003	0.0233	0.0000	179.8971	179.8971	6.0000e-004	0.0265	187.7973
Worker	0.0513	0.0287	0.4527	1.5300e-003	0.2125	7.8000e-004	0.2133	0.0565	7.2000e-004	0.0572	0.0000	140.0743	140.0743	2.9200e-003	3.4500e-003	141.1758
Total	0.0617	0.4920	0.5854	3.4100e-003	0.2831	3.8000e-003	0.2869	0.0769	3.6100e-003	0.0805	0.0000	319.9713	319.9713	3.5200e-003	0.0299	328.9732

3.5 1D P - 2031

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	0.0478	0.2457	0.5468	9.7000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	83.1433	83.1433	3.9000e-003	0.0000	83.2408
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0478	0.2457	0.5468	9.7000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	83.1433	83.1433	3.9000e-003	0.0000	83.2408

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1D P - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	5.6000e-004	8.7900e-003	3.0000e-005	4.1300e-003	2.0000e-005	4.1400e-003	1.1000e-003	1.0000e-005	1.1100e-003	0.0000	2.7203	2.7203	6.0000e-005	7.0000e-005	2.7417
Total	1.0000e-003	5.6000e-004	8.7900e-003	3.0000e-005	4.1300e-003	2.0000e-005	4.1400e-003	1.1000e-003	1.0000e-005	1.1100e-003	0.0000	2.7203	2.7203	6.0000e-005	7.0000e-005	2.7417

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	9.6800e-003	0.0419	0.5967	9.7000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	83.1432	83.1432	3.9000e-003	0.0000	83.2407
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.6800e-003	0.0419	0.5967	9.7000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	83.1432	83.1432	3.9000e-003	0.0000	83.2407

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1D P - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	5.6000e-004	8.7900e-003	3.0000e-005	4.1300e-003	2.0000e-005	4.1400e-003	1.1000e-003	1.0000e-005	1.1100e-003	0.0000	2.7203	2.7203	6.0000e-005	7.0000e-005	2.7417
Total	1.0000e-003	5.6000e-004	8.7900e-003	3.0000e-005	4.1300e-003	2.0000e-005	4.1400e-003	1.1000e-003	1.0000e-005	1.1100e-003	0.0000	2.7203	2.7203	6.0000e-005	7.0000e-005	2.7417

3.6 1D AC - 2031

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	0.0893					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3000e-004	2.1400e-003	4.4900e-003	1.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6383	0.6383	3.0000e-005	0.0000	0.6390
Total	0.0897	2.1400e-003	4.4900e-003	1.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6383	0.6383	3.0000e-005	0.0000	0.6390

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2031

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	2.7000e-004	1.5000e-004	2.4200e-003	1.0000e-005	1.1400e-003	0.0000	1.1400e-003	3.0000e-004	0.0000	3.1000e-004	0.0000	0.7491	0.7491	2.0000e-005	2.0000e-005	0.7550
Total	2.7000e-004	1.5000e-004	2.4200e-003	1.0000e-005	1.1400e-003	0.0000	1.1400e-003	3.0000e-004	0.0000	3.1000e-004	0.0000	0.7491	0.7491	2.0000e-005	2.0000e-005	0.7550

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	0.0893					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0000e-005	3.2000e-004	4.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.6383	0.6383	3.0000e-005	0.0000	0.6390
Total	0.0894	3.2000e-004	4.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.6383	0.6383	3.0000e-005	0.0000	0.6390

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2031

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	2.7000e-004	1.5000e-004	2.4200e-003	1.0000e-005	1.1400e-003	0.0000	1.1400e-003	3.0000e-004	0.0000	3.1000e-004	0.0000	0.7491	0.7491	2.0000e-005	2.0000e-005	0.7550
Total	2.7000e-004	1.5000e-004	2.4200e-003	1.0000e-005	1.1400e-003	0.0000	1.1400e-003	3.0000e-004	0.0000	3.1000e-004	0.0000	0.7491	0.7491	2.0000e-005	2.0000e-005	0.7550

3.6 1D AC - 2032

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	1.1434					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1800e-003	0.0274	0.0575	1.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	8.1704	8.1704	3.3000e-004	0.0000	8.1787
Total	1.1476	0.0274	0.0575	1.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	8.1704	8.1704	3.3000e-004	0.0000	8.1787

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2600e-003	1.8200e-003	0.0297	1.0000e-004	0.0146	5.0000e-005	0.0146	3.8700e-003	5.0000e-005	3.9100e-003	0.0000	9.3940	9.3940	1.8000e-004	2.3000e-004	9.4666
Total	3.2600e-003	1.8200e-003	0.0297	1.0000e-004	0.0146	5.0000e-005	0.0146	3.8700e-003	5.0000e-005	3.9100e-003	0.0000	9.3940	9.3940	1.8000e-004	2.3000e-004	9.4666

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	1.1434					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	4.1200e-003	0.0586	1.0000e-004		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	8.1704	8.1704	3.3000e-004	0.0000	8.1787
Total	1.1443	4.1200e-003	0.0586	1.0000e-004		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	8.1704	8.1704	3.3000e-004	0.0000	8.1787

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2600e-003	1.8200e-003	0.0297	1.0000e-004	0.0146	5.0000e-005	0.0146	3.8700e-003	5.0000e-005	3.9100e-003	0.0000	9.3940	9.3940	1.8000e-004	2.3000e-004	9.4666
Total	3.2600e-003	1.8200e-003	0.0297	1.0000e-004	0.0146	5.0000e-005	0.0146	3.8700e-003	5.0000e-005	3.9100e-003	0.0000	9.3940	9.3940	1.8000e-004	2.3000e-004	9.4666

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

VST_1D - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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
Free-Standing Discount store	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	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
Free-Standing Discount store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

VST_1D - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount store	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

VST_1D - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount store	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	1.7892	0.0141	1.2239	6.0000e-005		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	2.0051	2.0051	1.9200e-003	0.0000	2.0530
Unmitigated	1.7892	0.0141	1.2239	6.0000e-005		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	2.0051	2.0051	1.9200e-003	0.0000	2.0530

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0367	0.0141	1.2239	6.0000e-005		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	2.0051	2.0051	1.9200e-003	0.0000	2.0530
Total	1.7892	0.0141	1.2239	6.0000e-005		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	2.0051	2.0051	1.9200e-003	0.0000	2.0530

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0367	0.0141	1.2239	6.0000e-005		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	2.0051	2.0051	1.9200e-003	0.0000	2.0530
Total	1.7892	0.0141	1.2239	6.0000e-005		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	2.0051	2.0051	1.9200e-003	0.0000	2.0530

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1D - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount store	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

VST_1D - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount store	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

VST_1D - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount store	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

VST_1D - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount store	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
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
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Boilers

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

VST_1D - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number
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11.0 Vegetation

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_1E

Merced County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	950.00	Student	15.00	79,423.20	0
City Park	4.50	Acre	4.50	196,020.00	0
City Park	15.50	Acre	15.50	675,180.00	0
City Park	4.80	Acre	4.80	209,088.00	0
Single Family Housing	131.00	Dwelling Unit	15.00	18,013.00	375
Single Family Housing	186.00	Dwelling Unit	43.76	511,500.00	532

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEmod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data (1E)
- Construction Phase - Dates from modeling data document and project description (1E)
- Off-road Equipment - defaults
- Trips and VMT - defaults
- Grading - Acreage is the total acreage from that phase

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT study

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 15 mph limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Water And Wastewater - in operational model

Solid Waste - in operational model

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	39712	0
tblAreaCoating	Area_Nonresidential_Interior	119135	0
tblAreaCoating	Area_Residential_Exterior	357421	0
tblAreaCoating	Area_Residential_Interior	1072264	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	60.00	31.00
tblConstructionPhase	NumDays	155.00	87.00
tblConstructionPhase	NumDays	1,550.00	873.00

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	110.00	59.00
tblConstructionPhase	NumDays	110.00	59.00
tblConstructionPhase	PhaseEndDate	3/25/2030	2/12/2030
tblConstructionPhase	PhaseEndDate	10/28/2030	6/13/2030
tblConstructionPhase	PhaseEndDate	10/6/2036	10/18/2033
tblConstructionPhase	PhaseEndDate	8/10/2037	3/31/2034
tblConstructionPhase	PhaseEndDate	3/9/2037	1/9/2034
tblConstructionPhase	PhaseStartDate	3/26/2030	2/13/2030
tblConstructionPhase	PhaseStartDate	10/29/2030	6/14/2030
tblConstructionPhase	PhaseStartDate	3/10/2037	1/10/2034
tblConstructionPhase	PhaseStartDate	10/7/2036	10/19/2033
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24E	1.89	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	1.92	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24E	1.92	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblEnergyUse	T24NG	22.96	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	174.35	0.00
tblFireplaces	NumberNoFireplace	142.65	0.00
tblGrading	AcresOfGrading	261.00	90.00
tblGrading	AcresOfGrading	46.50	90.00
tblLandUse	LandUseSquareFeet	235,800.00	18,013.00

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	334,800.00	511,500.00
tblLandUse	LotAcreage	1.82	15.00
tblLandUse	LotAcreage	42.53	15.00
tblLandUse	LotAcreage	60.39	43.76
tblSolidWaste	SolidWasteGenerationRate	173.38	0.00
tblSolidWaste	SolidWasteGenerationRate	2.13	0.00
tblSolidWaste	SolidWasteGenerationRate	326.52	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,303,028.00	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	5,922,072.00	0.00
tblWater	OutdoorWaterUseRate	29,548,737.47	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	NumberCatalytic	58.76	0.00
tblWoodstoves	NumberNoncatalytic	58.76	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	0.3822	2.1315	3.3972	0.0114	1.0953	0.0445	1.1399	0.4324	0.0442	0.4766	0.0000	1,046.4936	1,046.4936	0.0283	0.0464	1,061.0273
2031	0.3504	2.3905	3.8048	0.0137	0.8190	0.0299	0.8490	0.2222	0.0294	0.2516	0.0000	1,248.6710	1,248.6710	0.0240	0.0827	1,273.9235
2032	0.3405	2.3904	3.7621	0.0136	0.8222	0.0299	0.8520	0.2231	0.0293	0.2524	0.0000	1,238.0150	1,238.0150	0.0234	0.0816	1,262.9168
2033	0.2985	2.0716	3.3606	0.0114	0.6527	0.0322	0.6850	0.1771	0.0318	0.2089	0.0000	1,033.1938	1,033.1938	0.0211	0.0635	1,052.6529
2034	1.8543	0.0498	0.1549	3.7000e-004	0.0286	1.6800e-003	0.0303	7.6000e-003	1.6700e-003	9.2700e-003	0.0000	32.5875	32.5875	9.6000e-004	4.3000e-004	32.7382
Maximum	1.8543	2.3905	3.8048	0.0137	1.0953	0.0445	1.1399	0.4324	0.0442	0.4766	0.0000	1,248.6710	1,248.6710	0.0283	0.0827	1,273.9235

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

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					
2030	0.1772	1.1195	3.9954	0.0114	1.0953	0.0148	1.1101	0.4324	0.0145	0.4469	0.0000	1,046.4929	1,046.4929	0.0283	0.0464	1,061.0267
2031	0.2279	1.6821	3.9750	0.0137	0.8190	0.0165	0.8355	0.2222	0.0159	0.2382	0.0000	1,248.6706	1,248.6706	0.0240	0.0827	1,273.9231
2032	0.2175	1.6794	3.9330	0.0136	0.8222	0.0164	0.8385	0.2231	0.0158	0.2389	0.0000	1,238.0146	1,238.0146	0.0234	0.0816	1,262.9164
2033	0.1721	1.3533	3.5339	0.0114	0.6527	0.0138	0.6665	0.1771	0.0134	0.1905	0.0000	1,033.1934	1,033.1934	0.0211	0.0635	1,052.6525
2034	1.8480	0.0106	0.1603	3.7000e-004	0.0286	3.2000e-004	0.0289	7.6000e-003	3.1000e-004	7.9100e-003	0.0000	32.5875	32.5875	9.6000e-004	4.3000e-004	32.7382
Maximum	1.8480	1.6821	3.9954	0.0137	1.0953	0.0165	1.1101	0.4324	0.0159	0.4469	0.0000	1,248.6706	1,248.6706	0.0283	0.0827	1,273.9231

	ROG	NOx	CO	SO2	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	18.08	35.30	-7.72	0.00	0.00	55.29	2.15	0.00	56.04	6.38	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	1-1-2030	3-31-2030	0.5370	0.1198
2	4-1-2030	6-30-2030	0.5816	0.2040
3	7-1-2030	9-30-2030	0.6879	0.4787
4	10-1-2030	12-31-2030	0.7078	0.4986
5	1-1-2031	3-31-2031	0.6861	0.4814
6	4-1-2031	6-30-2031	0.6740	0.4670
7	7-1-2031	9-30-2031	0.6814	0.4722

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8	10-1-2031	12-31-2031	0.7013	0.4921
9	1-1-2032	3-31-2032	0.6883	0.4814
10	4-1-2032	6-30-2032	0.6686	0.4616
11	7-1-2032	9-30-2032	0.6759	0.4667
12	10-1-2032	12-31-2032	0.6959	0.4867
13	1-1-2033	3-31-2033	0.6763	0.4716
14	4-1-2033	6-30-2033	0.6639	0.4570
15	7-1-2033	9-30-2033	0.6712	0.4620
16	10-1-2033	12-31-2033	0.3611	0.1349
17	1-1-2034	3-31-2034	1.8701	1.8236
		Highest	1.8701	1.8236

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.4593	0.0271	2.3544	1.2000e-004		0.0131	0.0131		0.0131	0.0131	0.0000	3.8623	3.8623	3.7000e-003	0.0000	3.9549
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.4593	0.0271	2.3544	1.2000e-004	0.0000	0.0131	0.0131	0.0000	0.0131	0.0131	0.0000	3.8623	3.8623	3.7000e-003	0.0000	3.9549

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	2.4593	0.0271	2.3544	1.2000e-004		0.0131	0.0131		0.0131	0.0131	0.0000	3.8623	3.8623	3.7000e-003	0.0000	3.9549
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.4593	0.0271	2.3544	1.2000e-004	0.0000	0.0131	0.0131	0.0000	0.0131	0.0131	0.0000	3.8623	3.8623	3.7000e-003	0.0000	3.9549

	ROG	NOx	CO	SO2	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	1E SP	Site Preparation	1/1/2030	2/12/2030	5	31	
2	1E G	Grading	2/13/2030	6/13/2030	5	87	
3	1E BC	Building Construction	6/14/2030	10/18/2033	5	873	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	1E P	Paving	10/19/2033	1/9/2034	5	59
5	1E AC	Architectural Coating	1/10/2034	3/31/2034	5	59

Acres of Grading (Site Preparation Phase): 90

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 1,072,264; Residential Outdoor: 357,421; Non-Residential Indoor: 119,135; Non-Residential Outdoor: 39,712; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
1E SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E BC	9	601.00	224.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E AC	1	120.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Reduce Vehicle Speed on Unpaved Roads

3.2 1E SP - 2030

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					0.3278	0.0000	0.3278	0.1591	0.0000	0.1591	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0378	0.2119	0.2525	7.2000e-004		6.7700e-003	6.7700e-003		6.7700e-003	6.7700e-003	0.0000	62.0072	62.0072	3.0600e-003	0.0000	62.0836
Total	0.0378	0.2119	0.2525	7.2000e-004	0.3278	6.7700e-003	0.3345	0.1591	6.7700e-003	0.1659	0.0000	62.0072	62.0072	3.0600e-003	0.0000	62.0836

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1E SP - 2030

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	5.8000e-004	3.3000e-004	4.9800e-003	2.0000e-005	2.2300e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.5000	1.5000	3.0000e-005	4.0000e-005	1.5120
Total	5.8000e-004	3.3000e-004	4.9800e-003	2.0000e-005	2.2300e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.5000	1.5000	3.0000e-005	4.0000e-005	1.5120

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					0.3278	0.0000	0.3278	0.1591	0.0000	0.1591	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2100e-003	0.0377	0.3235	7.2000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	62.0071	62.0071	3.0600e-003	0.0000	62.0836
Total	8.2100e-003	0.0377	0.3235	7.2000e-004	0.3278	1.0700e-003	0.3288	0.1591	1.0700e-003	0.1602	0.0000	62.0071	62.0071	3.0600e-003	0.0000	62.0836

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1E SP - 2030

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	5.8000e-004	3.3000e-004	4.9800e-003	2.0000e-005	2.2300e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.5000	1.5000	3.0000e-005	4.0000e-005	1.5120
Total	5.8000e-004	3.3000e-004	4.9800e-003	2.0000e-005	2.2300e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.5000	1.5000	3.0000e-005	4.0000e-005	1.5120

3.3 1E G - 2030

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					0.3097	0.0000	0.3097	0.1492	0.0000	0.1492	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1427	0.6023	1.0015	3.0400e-003		0.0212	0.0212		0.0212	0.0212	0.0000	284.6476	284.6476	0.0115	0.0000	284.9352
Total	0.1427	0.6023	1.0015	3.0400e-003	0.3097	0.0212	0.3309	0.1492	0.0212	0.1704	0.0000	284.6476	284.6476	0.0115	0.0000	284.9352

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1E G - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8200e-003	1.0200e-003	0.0155	5.0000e-005	6.9400e-003	3.0000e-005	6.9700e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	4.6773	4.6773	1.0000e-004	1.2000e-004	4.7149
Total	1.8200e-003	1.0200e-003	0.0155	5.0000e-005	6.9400e-003	3.0000e-005	6.9700e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	4.6773	4.6773	1.0000e-004	1.2000e-004	4.7149

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					0.3097	0.0000	0.3097	0.1492	0.0000	0.1492	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0345	0.1526	1.4355	3.0400e-003		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	284.6472	284.6472	0.0115	0.0000	284.9348
Total	0.0345	0.1526	1.4355	3.0400e-003	0.3097	4.5600e-003	0.3142	0.1492	4.5600e-003	0.1537	0.0000	284.6472	284.6472	0.0115	0.0000	284.9348

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1E G - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8200e-003	1.0200e-003	0.0155	5.0000e-005	6.9400e-003	3.0000e-005	6.9700e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	4.6773	4.6773	1.0000e-004	1.2000e-004	4.7149
Total	1.8200e-003	1.0200e-003	0.0155	5.0000e-005	6.9400e-003	3.0000e-005	6.9700e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	4.6773	4.6773	1.0000e-004	1.2000e-004	4.7149

3.4 1E BC - 2030

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	0.0936	0.5673	1.1552	2.2100e-003		0.0106	0.0106		0.0106	0.0106	0.0000	187.9456	187.9456	7.5400e-003	0.0000	188.1341
Total	0.0936	0.5673	1.1552	2.2100e-003		0.0106	0.0106		0.0106	0.0106	0.0000	187.9456	187.9456	7.5400e-003	0.0000	188.1341

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2030

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	0.0158	0.6981	0.2009	2.8700e-003	0.1060	4.5700e-003	0.1106	0.0307	4.3700e-003	0.0350	0.0000	274.6903	274.6903	9.2000e-004	0.0404	286.7653
Worker	0.0898	0.0505	0.7666	2.5200e-003	0.3427	1.3500e-003	0.3441	0.0911	1.2400e-003	0.0923	0.0000	231.0256	231.0256	5.1300e-003	5.8000e-003	232.8822
Total	0.1056	0.7486	0.9674	5.3900e-003	0.4487	5.9200e-003	0.4547	0.1218	5.6100e-003	0.1274	0.0000	505.7159	505.7159	6.0500e-003	0.0462	519.6475

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	0.0265	0.1792	1.2485	2.2100e-003		3.2300e-003	3.2300e-003		3.2300e-003	3.2300e-003	0.0000	187.9454	187.9454	7.5400e-003	0.0000	188.1339
Total	0.0265	0.1792	1.2485	2.2100e-003		3.2300e-003	3.2300e-003		3.2300e-003	3.2300e-003	0.0000	187.9454	187.9454	7.5400e-003	0.0000	188.1339

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2030

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	0.0158	0.6981	0.2009	2.8700e-003	0.1060	4.5700e-003	0.1106	0.0307	4.3700e-003	0.0350	0.0000	274.6903	274.6903	9.2000e-004	0.0404	286.7653
Worker	0.0898	0.0505	0.7666	2.5200e-003	0.3427	1.3500e-003	0.3441	0.0911	1.2400e-003	0.0923	0.0000	231.0256	231.0256	5.1300e-003	5.8000e-003	232.8822
Total	0.1056	0.7486	0.9674	5.3900e-003	0.4487	5.9200e-003	0.4547	0.1218	5.6100e-003	0.1274	0.0000	505.7159	505.7159	6.0500e-003	0.0462	519.6475

3.4 1E BC - 2031

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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2031

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	0.0285	1.2705	0.3638	5.1500e-003	0.1935	8.2900e-003	0.2018	0.0559	7.9300e-003	0.0639	0.0000	493.3625	493.3625	1.6500e-003	0.0726	515.0287
Worker	0.1511	0.0845	1.3325	4.5000e-003	0.6255	2.3000e-003	0.6278	0.1663	2.1100e-003	0.1684	0.0000	412.2749	412.2749	8.6000e-003	0.0102	415.5171
Total	0.1796	1.3550	1.6963	9.6500e-003	0.8190	0.0106	0.8296	0.2222	0.0100	0.2323	0.0000	905.6374	905.6374	0.0103	0.0827	930.5458

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	0.0483	0.3271	2.2787	4.0400e-003		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.0483	0.3271	2.2787	4.0400e-003		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2031

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	0.0285	1.2705	0.3638	5.1500e-003	0.1935	8.2900e-003	0.2018	0.0559	7.9300e-003	0.0639	0.0000	493.3625	493.3625	1.6500e-003	0.0726	515.0287
Worker	0.1511	0.0845	1.3325	4.5000e-003	0.6255	2.3000e-003	0.6278	0.1663	2.1100e-003	0.1684	0.0000	412.2749	412.2749	8.6000e-003	0.0102	415.5171
Total	0.1796	1.3550	1.6963	9.6500e-003	0.8190	0.0106	0.8296	0.2222	0.0100	0.2323	0.0000	905.6374	905.6374	0.0103	0.0827	930.5458

3.4 1E BC - 2032

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	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2032

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	0.0284	1.2723	0.3637	5.1000e-003	0.1943	8.2900e-003	0.2026	0.0562	7.9300e-003	0.0641	0.0000	488.1873	488.1873	1.6500e-003	0.0717	509.6084
Worker	0.1407	0.0787	1.2818	4.4200e-003	0.6279	2.1600e-003	0.6301	0.1669	1.9900e-003	0.1689	0.0000	405.4798	405.4798	7.9700e-003	9.8500e-003	408.6151
Total	0.1690	1.3510	1.6456	9.5200e-003	0.8222	0.0105	0.8326	0.2231	9.9200e-003	0.2330	0.0000	893.6671	893.6671	9.6200e-003	0.0816	918.2235

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	0.0485	0.3284	2.2874	4.0600e-003		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
Total	0.0485	0.3284	2.2874	4.0600e-003		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2032

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	0.0284	1.2723	0.3637	5.1000e-003	0.1943	8.2900e-003	0.2026	0.0562	7.9300e-003	0.0641	0.0000	488.1873	488.1873	1.6500e-003	0.0717	509.6084
Worker	0.1407	0.0787	1.2818	4.4200e-003	0.6279	2.1600e-003	0.6301	0.1669	1.9900e-003	0.1689	0.0000	405.4798	405.4798	7.9700e-003	9.8500e-003	408.6151
Total	0.1690	1.3510	1.6456	9.5200e-003	0.8222	0.0105	0.8326	0.2231	9.9200e-003	0.2330	0.0000	893.6671	893.6671	9.6200e-003	0.0816	918.2235

3.4 1E BC - 2033

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	0.1355	0.8212	1.6723	3.2000e-003		0.0153	0.0153		0.0153	0.0153	0.0000	272.0612	272.0612	0.0109	0.0000	272.3340
Total	0.1355	0.8212	1.6723	3.2000e-003		0.0153	0.0153		0.0153	0.0153	0.0000	272.0612	272.0612	0.0109	0.0000	272.3340

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2033

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	0.0223	1.0032	0.2869	3.9800e-003	0.1535	6.5200e-003	0.1600	0.0444	6.2400e-003	0.0506	0.0000	380.7734	380.7734	1.3000e-003	0.0559	397.4701
Worker	0.1034	0.0582	0.9751	3.4300e-003	0.4961	1.6000e-003	0.4977	0.1319	1.4700e-003	0.1334	0.0000	314.4859	314.4859	5.8500e-003	7.5600e-003	316.8852
Total	0.1257	1.0613	1.2621	7.4100e-003	0.6496	8.1200e-003	0.6577	0.1762	7.7100e-003	0.1840	0.0000	695.2593	695.2593	7.1500e-003	0.0635	714.3553

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	0.0383	0.2594	1.8072	3.2000e-003		4.6800e-003	4.6800e-003		4.6800e-003	4.6800e-003	0.0000	272.0608	272.0608	0.0109	0.0000	272.3337
Total	0.0383	0.2594	1.8072	3.2000e-003		4.6800e-003	4.6800e-003		4.6800e-003	4.6800e-003	0.0000	272.0608	272.0608	0.0109	0.0000	272.3337

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2033

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	0.0223	1.0032	0.2869	3.9800e-003	0.1535	6.5200e-003	0.1600	0.0444	6.2400e-003	0.0506	0.0000	380.7734	380.7734	1.3000e-003	0.0559	397.4701
Worker	0.1034	0.0582	0.9751	3.4300e-003	0.4961	1.6000e-003	0.4977	0.1319	1.4700e-003	0.1334	0.0000	314.4859	314.4859	5.8500e-003	7.5600e-003	316.8852
Total	0.1257	1.0613	1.2621	7.4100e-003	0.6496	8.1200e-003	0.6577	0.1762	7.7100e-003	0.1840	0.0000	695.2593	695.2593	7.1500e-003	0.0635	714.3553

3.5 1E P - 2033

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	0.0367	0.1887	0.4200	7.4000e-004		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	63.8637	63.8637	2.9900e-003	0.0000	63.9386
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0367	0.1887	0.4200	7.4000e-004		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	63.8637	63.8637	2.9900e-003	0.0000	63.9386

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2033

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	6.6000e-004	3.7000e-004	6.2300e-003	2.0000e-005	3.1700e-003	1.0000e-005	3.1800e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.0097	2.0097	4.0000e-005	5.0000e-005	2.0250
Total	6.6000e-004	3.7000e-004	6.2300e-003	2.0000e-005	3.1700e-003	1.0000e-005	3.1800e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.0097	2.0097	4.0000e-005	5.0000e-005	2.0250

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	7.4300e-003	0.0322	0.4583	7.4000e-004		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	63.8636	63.8636	2.9900e-003	0.0000	63.9385
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.4300e-003	0.0322	0.4583	7.4000e-004		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	63.8636	63.8636	2.9900e-003	0.0000	63.9385

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2033

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	6.6000e-004	3.7000e-004	6.2300e-003	2.0000e-005	3.1700e-003	1.0000e-005	3.1800e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.0097	2.0097	4.0000e-005	5.0000e-005	2.0250
Total	6.6000e-004	3.7000e-004	6.2300e-003	2.0000e-005	3.1700e-003	1.0000e-005	3.1800e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.0097	2.0097	4.0000e-005	5.0000e-005	2.0250

3.5 1E P - 2034

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	4.1500e-003	0.0214	0.0476	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	7.2299	7.2299	3.4000e-004	0.0000	7.2383
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.1500e-003	0.0214	0.0476	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	7.2299	7.2299	3.4000e-004	0.0000	7.2383

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	4.0000e-005	6.8000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2238	0.2238	0.0000	1.0000e-005	0.2254
Total	7.0000e-005	4.0000e-005	6.8000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2238	0.2238	0.0000	1.0000e-005	0.2254

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	8.4000e-004	3.6500e-003	0.0519	8.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.2299	7.2299	3.4000e-004	0.0000	7.2383
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.4000e-004	3.6500e-003	0.0519	8.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.2299	7.2299	3.4000e-004	0.0000	7.2383

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	4.0000e-005	6.8000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2238	0.2238	0.0000	1.0000e-005	0.2254
Total	7.0000e-005	4.0000e-005	6.8000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2238	0.2238	0.0000	1.0000e-005	0.2254

3.6 1E AC - 2034

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	1.8407					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8600e-003	0.0253	0.0530	9.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	7.5321	7.5321	3.0000e-004	0.0000	7.5397
Total	1.8446	0.0253	0.0530	9.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	7.5321	7.5321	3.0000e-004	0.0000	7.5397

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1E AC - 2034

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	5.5000e-003	3.1300e-003	0.0536	1.9000e-004	0.0282	9.0000e-005	0.0283	7.5100e-003	8.0000e-005	7.5800e-003	0.0000	17.6018	17.6018	3.1000e-004	4.2000e-004	17.7347
Total	5.5000e-003	3.1300e-003	0.0536	1.9000e-004	0.0282	9.0000e-005	0.0283	7.5100e-003	8.0000e-005	7.5800e-003	0.0000	17.6018	17.6018	3.1000e-004	4.2000e-004	17.7347

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	1.8407					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8000e-004	3.8000e-003	0.0541	9.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	7.5321	7.5321	3.0000e-004	0.0000	7.5397
Total	1.8416	3.8000e-003	0.0541	9.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	7.5321	7.5321	3.0000e-004	0.0000	7.5397

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1E AC - 2034

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	5.5000e-003	3.1300e-003	0.0536	1.9000e-004	0.0282	9.0000e-005	0.0283	7.5100e-003	8.0000e-005	7.5800e-003	0.0000	17.6018	17.6018	3.1000e-004	4.2000e-004	17.7347
Total	5.5000e-003	3.1300e-003	0.0536	1.9000e-004	0.0282	9.0000e-005	0.0283	7.5100e-003	8.0000e-005	7.5800e-003	0.0000	17.6018	17.6018	3.1000e-004	4.2000e-004	17.7347

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	
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	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	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Elementary School	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	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
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	2.4593	0.0271	2.3544	1.2000e-004		0.0131	0.0131		0.0131	0.0131	0.0000	3.8623	3.8623	3.7000e-003	0.0000	3.9549
Unmitigated	2.4593	0.0271	2.3544	1.2000e-004		0.0131	0.0131		0.0131	0.0131	0.0000	3.8623	3.8623	3.7000e-003	0.0000	3.9549

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3884					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0709	0.0271	2.3544	1.2000e-004		0.0131	0.0131		0.0131	0.0131	0.0000	3.8623	3.8623	3.7000e-003	0.0000	3.9549
Total	2.4593	0.0271	2.3544	1.2000e-004		0.0131	0.0131		0.0131	0.0131	0.0000	3.8623	3.8623	3.7000e-003	0.0000	3.9549

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3884					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0709	0.0271	2.3544	1.2000e-004		0.0131	0.0131		0.0131	0.0131	0.0000	3.8623	3.8623	3.7000e-003	0.0000	3.9549
Total	2.4593	0.0271	2.3544	1.2000e-004		0.0131	0.0131		0.0131	0.0131	0.0000	3.8623	3.8623	3.7000e-003	0.0000	3.9549

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Elementary School	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Elementary School	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
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Boilers

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

Equipment Type	Number
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VST_1E - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_phase2
Merced County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	45.60	Acre	45.60	1,986,336.00	0
Single Family Housing	105.00	Dwelling Unit	41.86	431,250.00	300
Single Family Housing	171.00	Dwelling Unit	40.24	470,250.00	489
Single Family Housing	326.00	Dwelling Unit	54.57	489,000.00	932
Single Family Housing	13.00	Dwelling Unit	2.07	24,700.00	37
Single Family Housing	225.00	Dwelling Unit	25.78	270,000.00	644
Condo/Townhouse	140.00	Dwelling Unit	8.60	168,000.00	400
Apartments High Rise	336.00	Dwelling Unit	11.97	336,000.00	961
Regional Shopping Center	54.50	1000sqft	1.25	54,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (phase 2)

Construction Phase - Dates from modeling data document and project description

Off-road Equipment - defaults

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - 100% SF residential electricity from solar, MF 25% more efficient than title 24

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 40 mph speed limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Water And Wastewater - in operational model

Solid Waste - in operational model

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	27250	0
tblAreaCoating	Area_Nonresidential_Interior	81750	0
tblAreaCoating	Area_Residential_Exterior	1477710	0
tblAreaCoating	Area_Residential_Interior	4433130	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	180.00	67.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	4,650.00	1,849.00
tblConstructionPhase	NumDays	465.00	183.00
tblConstructionPhase	NumDays	330.00	125.00
tblConstructionPhase	NumDays	330.00	125.00
tblConstructionPhase	PhaseEndDate	9/9/2030	6/3/2030
tblConstructionPhase	PhaseEndDate	4/18/2050	3/17/2038
tblConstructionPhase	PhaseEndDate	6/21/2032	2/13/2031
tblConstructionPhase	PhaseEndDate	10/28/2052	3/2/2039
tblConstructionPhase	PhaseEndDate	7/24/2051	9/8/2038
tblConstructionPhase	PhaseStartDate	1/1/2030	3/1/2030
tblConstructionPhase	PhaseStartDate	6/22/2032	2/14/2031
tblConstructionPhase	PhaseStartDate	9/10/2030	6/4/2030
tblConstructionPhase	PhaseStartDate	7/25/2051	9/9/2038
tblConstructionPhase	PhaseStartDate	4/19/2050	3/18/2038
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.91	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	184.80	0.00
tblFireplaces	NumberGas	77.00	0.00
tblFireplaces	NumberGas	462.00	0.00
tblFireplaces	NumberNoFireplace	151.20	0.00
tblFireplaces	NumberNoFireplace	63.00	0.00
tblFireplaces	NumberNoFireplace	378.00	0.00
tblGrading	AcresOfGrading	549.00	232.00
tblGrading	AcresOfGrading	100.50	232.00
tblLandUse	LandUseSquareFeet	189,000.00	431,250.00
tblLandUse	LandUseSquareFeet	307,800.00	470,250.00
tblLandUse	LandUseSquareFeet	586,800.00	489,000.00
tblLandUse	LandUseSquareFeet	23,400.00	24,700.00
tblLandUse	LandUseSquareFeet	405,000.00	270,000.00
tblLandUse	LandUseSquareFeet	140,000.00	168,000.00
tblLandUse	LotAcreage	34.09	41.86
tblLandUse	LotAcreage	55.52	40.24
tblLandUse	LotAcreage	105.84	54.57
tblLandUse	LotAcreage	4.22	2.07
tblLandUse	LotAcreage	73.05	25.78
tblLandUse	LotAcreage	8.75	8.60
tblLandUse	LotAcreage	5.42	11.97
tblSolidWaste	SolidWasteGenerationRate	154.56	0.00
tblSolidWaste	SolidWasteGenerationRate	3.92	0.00
tblSolidWaste	SolidWasteGenerationRate	64.40	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	57.23	0.00
tblSolidWaste	SolidWasteGenerationRate	864.72	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	21,891,752.61	0.00
tblWater	IndoorWaterUseRate	9,121,563.59	0.00
tblWater	IndoorWaterUseRate	4,036,952.42	0.00
tblWater	IndoorWaterUseRate	54,729,381.52	0.00
tblWater	OutdoorWaterUseRate	13,801,322.30	0.00
tblWater	OutdoorWaterUseRate	54,331,549.54	0.00
tblWater	OutdoorWaterUseRate	5,750,550.96	0.00
tblWater	OutdoorWaterUseRate	2,474,261.16	0.00
tblWater	OutdoorWaterUseRate	34,503,305.74	0.00
tblWoodstoves	NumberCatalytic	11.97	0.00
tblWoodstoves	NumberCatalytic	8.60	0.00
tblWoodstoves	NumberCatalytic	164.52	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberNoncatalytic	11.97	0.00
tblWoodstoves	NumberNoncatalytic	8.60	0.00
tblWoodstoves	NumberNoncatalytic	164.52	0.00

2.0 Emissions Summary

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	0.3338	1.5058	2.3218	6.9600e-003	1.3228	0.0515	1.3743	0.6137	0.0515	0.6652	0.0000	639.4189	639.4189	0.0268	2.9000e-004	640.1747
2031	0.5862	3.6790	5.8127	0.0241	1.9490	0.0452	1.9942	0.5344	0.0442	0.5786	0.0000	2,226.2891	2,226.2891	0.0382	0.1573	2,274.1065
2032	0.5821	3.9334	6.0807	0.0259	1.9759	0.0424	2.0183	0.5348	0.0412	0.5760	0.0000	2,389.5553	2,389.5553	0.0372	0.1767	2,443.1345
2033	0.5531	3.8853	5.9155	0.0254	1.9609	0.0416	2.0025	0.5308	0.0405	0.5712	0.0000	2,339.8008	2,339.8008	0.0355	0.1726	2,392.1214
2034	0.5316	3.8685	5.8130	0.0251	1.9609	0.0412	2.0021	0.5308	0.0401	0.5709	0.0000	2,311.6733	2,311.6733	0.0342	0.1702	2,363.2465
2035	0.5027	3.7665	5.7435	0.0249	1.9684	0.0335	2.0019	0.5328	0.0324	0.5652	0.0000	2,295.6161	2,295.6161	0.0323	0.1688	2,346.7137
2036	0.5046	3.7809	5.7655	0.0250	1.9760	0.0336	2.0096	0.5348	0.0325	0.5674	0.0000	2,304.4116	2,304.4116	0.0324	0.1694	2,355.7049
2037	0.5027	3.7665	5.7435	0.0249	1.9684	0.0335	2.0019	0.5328	0.0324	0.5652	0.0000	2,295.6161	2,295.6161	0.0323	0.1688	2,346.7137
2038	4.7753	1.1262	2.4447	7.7300e-003	0.5125	0.0194	0.5319	0.1382	0.0191	0.1573	0.0000	700.6936	700.6936	0.0139	0.0365	711.9047
2039	2.4115	0.0217	0.1331	4.1000e-004	0.0513	3.6000e-004	0.0516	0.0136	3.5000e-004	0.0140	0.0000	36.9820	36.9820	7.3000e-004	7.5000e-004	37.2232
Maximum	4.7753	3.9334	6.0807	0.0259	1.9760	0.0515	2.0183	0.6137	0.0515	0.6652	0.0000	2,389.5553	2,389.5553	0.0382	0.1767	2,443.1345

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2030	3-31-2030	0.1790	0.0335
2	4-1-2030	6-30-2030	0.5355	0.1113
3	7-1-2030	9-30-2030	0.5650	0.1436
4	10-1-2030	12-31-2030	0.5650	0.1436
5	1-1-2031	3-31-2031	0.8552	0.5490
6	4-1-2031	6-30-2031	1.1158	0.9089
7	7-1-2031	9-30-2031	1.1281	0.9189
8	10-1-2031	12-31-2031	1.1701	0.9609
9	1-1-2032	3-31-2032	1.1444	0.9375
10	4-1-2032	6-30-2032	1.1027	0.8958
11	7-1-2032	9-30-2032	1.1148	0.9056
12	10-1-2032	12-31-2032	1.1570	0.9478
13	1-1-2033	3-31-2033	1.1208	0.9162
14	4-1-2033	6-30-2033	1.0913	0.8844
15	7-1-2033	9-30-2033	1.1033	0.8941
16	10-1-2033	12-31-2033	1.1457	0.9365
17	1-1-2034	3-31-2034	1.1110	0.9063
18	4-1-2034	6-30-2034	1.0810	0.8741
19	7-1-2034	9-30-2034	1.0929	0.8837
20	10-1-2034	12-31-2034	1.1357	0.9265
21	1-1-2035	3-31-2035	1.0743	0.8967
22	4-1-2035	6-30-2035	1.0435	0.8640
23	7-1-2035	9-30-2035	1.0550	0.8735
24	10-1-2035	12-31-2035	1.0982	0.9166
25	1-1-2036	3-31-2036	1.0862	0.9067
26	4-1-2036	6-30-2036	1.0435	0.8640
27	7-1-2036	9-30-2036	1.0550	0.8735
28	10-1-2036	12-31-2036	1.0982	0.9166

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

29	1-1-2037	3-31-2037	1.0743	0.8967
30	4-1-2037	6-30-2037	1.0435	0.8640
31	7-1-2037	9-30-2037	1.0550	0.8735
32	10-1-2037	12-31-2037	1.0982	0.9166
33	1-1-2038	3-31-2038	0.9374	0.7649
34	4-1-2038	6-30-2038	0.1967	0.0498
35	7-1-2038	9-30-2038	1.0409	0.9222
36	10-1-2038	12-31-2038	3.7199	3.6964
37	1-1-2039	3-31-2039	2.4665	2.4509
		Highest	3.7199	3.6964

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	9.0727	0.1124	9.7380	5.2000e-004		0.0542	0.0542		0.0542	0.0542	0.0000	15.9633	15.9633	0.0152	0.0000	16.3433
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.0727	0.1124	9.7380	5.2000e-004	0.0000	0.0542	0.0542	0.0000	0.0542	0.0542	0.0000	15.9633	15.9633	0.0152	0.0000	16.3433

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	9.0727	0.1124	9.7380	5.2000e-004		0.0542	0.0542		0.0542	0.0542	0.0000	15.9633	15.9633	0.0152	0.0000	16.3433
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.0727	0.1124	9.7380	5.2000e-004	0.0000	0.0542	0.0542	0.0000	0.0542	0.0542	0.0000	15.9633	15.9633	0.0152	0.0000	16.3433

	ROG	NOx	CO	SO2	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	2 SP	Site Preparation	3/1/2030	6/3/2030	5	67	
2	2 G	Grading	6/4/2030	2/13/2031	5	183	
3	2 BC	Building Construction	2/14/2031	3/17/2038	5	1849	

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	2 P	Paving	3/18/2038	9/8/2038	5	125
5	2 AC	Architectural Coating	9/9/2038	3/2/2039	5	125

Acres of Grading (Site Preparation Phase): 232

Acres of Grading (Grading Phase): 232

Acres of Paving: 0

Residential Indoor: 4,433,130; Residential Outdoor: 1,477,710; Non-Residential Indoor: 81,750; Non-Residential Outdoor: 27,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	
2 SP		7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 BC		9	1,497.00	475.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 G		8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 AC		1	299.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 P		6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Reduce Vehicle Speed on Unpaved Roads

3.2 2 SP - 2030

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					0.7282	0.0000	0.7282	0.3460	0.0000	0.3460	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0817	0.4579	0.5458	1.5600e-003		0.0146	0.0146		0.0146	0.0146	0.0000	134.0155	134.0155	6.6100e-003	0.0000	134.1808
Total	0.0817	0.4579	0.5458	1.5600e-003	0.7282	0.0146	0.7429	0.3460	0.0146	0.3606	0.0000	134.0155	134.0155	6.6100e-003	0.0000	134.1808

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 2 SP - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2600e-003	7.1000e-004	0.0108	4.0000e-005	4.8100e-003	2.0000e-005	4.8300e-003	1.2800e-003	2.0000e-005	1.3000e-003	0.0000	3.2419	3.2419	7.0000e-005	8.0000e-005	3.2679
Total	1.2600e-003	7.1000e-004	0.0108	4.0000e-005	4.8100e-003	2.0000e-005	4.8300e-003	1.2800e-003	2.0000e-005	1.3000e-003	0.0000	3.2419	3.2419	7.0000e-005	8.0000e-005	3.2679

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					0.7282	0.0000	0.7282	0.3460	0.0000	0.3460	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0178	0.0815	0.6992	1.5600e-003		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	134.0153	134.0153	6.6100e-003	0.0000	134.1806
Total	0.0178	0.0815	0.6992	1.5600e-003	0.7282	2.3000e-003	0.7305	0.3460	2.3000e-003	0.3483	0.0000	134.0153	134.0153	6.6100e-003	0.0000	134.1806

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 2 SP - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2600e-003	7.1000e-004	0.0108	4.0000e-005	4.8100e-003	2.0000e-005	4.8300e-003	1.2800e-003	2.0000e-005	1.3000e-003	0.0000	3.2419	3.2419	7.0000e-005	8.0000e-005	3.2679
Total	1.2600e-003	7.1000e-004	0.0108	4.0000e-005	4.8100e-003	2.0000e-005	4.8300e-003	1.2800e-003	2.0000e-005	1.3000e-003	0.0000	3.2419	3.2419	7.0000e-005	8.0000e-005	3.2679

3.3 2 G - 2030

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					0.5777	0.0000	0.5777	0.2632	0.0000	0.2632	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2477	1.0454	1.7383	5.2800e-003		0.0368	0.0368		0.0368	0.0368	0.0000	494.0435	494.0435	0.0200	0.0000	494.5426
Total	0.2477	1.0454	1.7383	5.2800e-003	0.5777	0.0368	0.6145	0.2632	0.0368	0.3001	0.0000	494.0435	494.0435	0.0200	0.0000	494.5426

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1600e-003	1.7800e-003	0.0269	9.0000e-005	0.0120	5.0000e-005	0.0121	3.2000e-003	4.0000e-005	3.2400e-003	0.0000	8.1181	8.1181	1.8000e-004	2.0000e-004	8.1834
Total	3.1600e-003	1.7800e-003	0.0269	9.0000e-005	0.0120	5.0000e-005	0.0121	3.2000e-003	4.0000e-005	3.2400e-003	0.0000	8.1181	8.1181	1.8000e-004	2.0000e-004	8.1834

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					0.5777	0.0000	0.5777	0.2632	0.0000	0.2632	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0599	0.2648	2.4915	5.2800e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	494.0429	494.0429	0.0200	0.0000	494.5420
Total	0.0599	0.2648	2.4915	5.2800e-003	0.5777	7.9200e-003	0.5856	0.2632	7.9200e-003	0.2711	0.0000	494.0429	494.0429	0.0200	0.0000	494.5420

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1600e-003	1.7800e-003	0.0269	9.0000e-005	0.0120	5.0000e-005	0.0121	3.2000e-003	4.0000e-005	3.2400e-003	0.0000	8.1181	8.1181	1.8000e-004	2.0000e-004	8.1834
Total	3.1600e-003	1.7800e-003	0.0269	9.0000e-005	0.0120	5.0000e-005	0.0121	3.2000e-003	4.0000e-005	3.2400e-003	0.0000	8.1181	8.1181	1.8000e-004	2.0000e-004	8.1834

3.3 2 G - 2031

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					0.2194	0.0000	0.2194	0.0663	0.0000	0.0663	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0525	0.2215	0.3684	1.1200e-003		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	104.6980	104.6980	4.2300e-003	0.0000	104.8037
Total	0.0525	0.2215	0.3684	1.1200e-003	0.2194	7.8100e-003	0.2272	0.0663	7.8100e-003	0.0741	0.0000	104.6980	104.6980	4.2300e-003	0.0000	104.8037

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2031

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	6.2000e-004	3.4000e-004	5.4400e-003	2.0000e-005	2.5500e-003	1.0000e-005	2.5600e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	1.6821	1.6821	4.0000e-005	4.0000e-005	1.6953
Total	6.2000e-004	3.4000e-004	5.4400e-003	2.0000e-005	2.5500e-003	1.0000e-005	2.5600e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	1.6821	1.6821	4.0000e-005	4.0000e-005	1.6953

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					0.2194	0.0000	0.2194	0.0663	0.0000	0.0663	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.0561	0.5280	1.1200e-003		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	104.6978	104.6978	4.2300e-003	0.0000	104.8036
Total	0.0127	0.0561	0.5280	1.1200e-003	0.2194	1.6800e-003	0.2211	0.0663	1.6800e-003	0.0679	0.0000	104.6978	104.6978	4.2300e-003	0.0000	104.8036

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2031

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	6.2000e-004	3.4000e-004	5.4400e-003	2.0000e-005	2.5500e-003	1.0000e-005	2.5600e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	1.6821	1.6821	4.0000e-005	4.0000e-005	1.6953
Total	6.2000e-004	3.4000e-004	5.4400e-003	2.0000e-005	2.5500e-003	1.0000e-005	2.5600e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	1.6821	1.6821	4.0000e-005	4.0000e-005	1.6953

3.4 2 BC - 2031

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	0.1499	0.9085	1.8500	3.5400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	300.9759	300.9759	0.0121	0.0000	301.2777
Total	0.1499	0.9085	1.8500	3.5400e-003		0.0170	0.0170		0.0170	0.0170	0.0000	300.9759	300.9759	0.0121	0.0000	301.2777

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2031

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	0.0530	2.3638	0.6768	9.5900e-003	0.3601	0.0154	0.3755	0.1041	0.0148	0.1188	0.0000	917.9239	917.9239	3.0800e-003	0.1350	958.2350
Worker	0.3302	0.1848	2.9121	9.8300e-003	1.3670	5.0200e-003	1.3720	0.3634	4.6200e-003	0.3680	0.0000	901.0092	901.0092	0.0188	0.0222	908.0948
Total	0.3832	2.5486	3.5890	0.0194	1.7271	0.0205	1.7475	0.4675	0.0194	0.4869	0.0000	1,818.9331	1,818.9331	0.0219	0.1572	1,866.3298

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	0.0424	0.2870	1.9993	3.5400e-003		5.1700e-003	5.1700e-003		5.1700e-003	5.1700e-003	0.0000	300.9755	300.9755	0.0121	0.0000	301.2774
Total	0.0424	0.2870	1.9993	3.5400e-003		5.1700e-003	5.1700e-003		5.1700e-003	5.1700e-003	0.0000	300.9755	300.9755	0.0121	0.0000	301.2774

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2031

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	0.0530	2.3638	0.6768	9.5900e-003	0.3601	0.0154	0.3755	0.1041	0.0148	0.1188	0.0000	917.9239	917.9239	3.0800e-003	0.1350	958.2350
Worker	0.3302	0.1848	2.9121	9.8300e-003	1.3670	5.0200e-003	1.3720	0.3634	4.6200e-003	0.3680	0.0000	901.0092	901.0092	0.0188	0.0222	908.0948
Total	0.3832	2.5486	3.5890	0.0194	1.7271	0.0205	1.7475	0.4675	0.0194	0.4869	0.0000	1,818.9331	1,818.9331	0.0219	0.1572	1,866.3298

3.4 2 BC - 2032

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	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2032

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	0.0602	2.6979	0.7713	0.0108	0.4120	0.0176	0.4295	0.1191	0.0168	0.1359	0.0000	1,035.2186	1,035.2186	3.4900e-003	0.1521	1,080.6429
Worker	0.3504	0.1960	3.1928	0.0110	1.5640	5.3800e-003	1.5694	0.4158	4.9500e-003	0.4207	0.0000	1,009.9888	1,009.9888	0.0199	0.0245	1,017.7983
Total	0.4106	2.8939	3.9641	0.0218	1.9759	0.0230	1.9989	0.5348	0.0218	0.5566	0.0000	2,045.2074	2,045.2074	0.0234	0.1767	2,098.4412

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	0.0485	0.3284	2.2874	4.0600e-003		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
Total	0.0485	0.3284	2.2874	4.0600e-003		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2032

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	0.0602	2.6979	0.7713	0.0108	0.4120	0.0176	0.4295	0.1191	0.0168	0.1359	0.0000	1,035.2186	1,035.2186	3.4900e-003	0.1521	1,080.6429
Worker	0.3504	0.1960	3.1928	0.0110	1.5640	5.3800e-003	1.5694	0.4158	4.9500e-003	0.4207	0.0000	1,009.9888	1,009.9888	0.0199	0.0245	1,017.7983
Total	0.4106	2.8939	3.9641	0.0218	1.9759	0.0230	1.9989	0.5348	0.0218	0.5566	0.0000	2,045.2074	2,045.2074	0.0234	0.1767	2,098.4412

3.4 2 BC - 2033

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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2033

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	0.0593	2.6719	0.7642	0.0106	0.4088	0.0174	0.4262	0.1182	0.0166	0.1348	0.0000	1,014.1803	1,014.1803	3.4500e-003	0.1489	1,058.6516
Worker	0.3236	0.1820	3.0508	0.0107	1.5520	5.0000e-003	1.5570	0.4126	4.6000e-003	0.4172	0.0000	983.9012	983.9012	0.0183	0.0237	991.4078
Total	0.3829	2.8538	3.8151	0.0213	1.9609	0.0224	1.9832	0.5308	0.0212	0.5520	0.0000	1,998.0815	1,998.0815	0.0218	0.1726	2,050.0594

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	0.0481	0.3259	2.2700	4.0200e-003		5.8700e-003	5.8700e-003		5.8700e-003	5.8700e-003	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	0.0481	0.3259	2.2700	4.0200e-003		5.8700e-003	5.8700e-003		5.8700e-003	5.8700e-003	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2033

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	0.0593	2.6719	0.7642	0.0106	0.4088	0.0174	0.4262	0.1182	0.0166	0.1348	0.0000	1,014.1803	1,014.1803	3.4500e-003	0.1489	1,058.6516
Worker	0.3236	0.1820	3.0508	0.0107	1.5520	5.0000e-003	1.5570	0.4126	4.6000e-003	0.4172	0.0000	983.9012	983.9012	0.0183	0.0237	991.4078
Total	0.3829	2.8538	3.8151	0.0213	1.9609	0.0224	1.9832	0.5308	0.0212	0.5520	0.0000	1,998.0815	1,998.0815	0.0218	0.1726	2,050.0594

3.4 2 BC - 2034

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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2034

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	0.0590	2.6652	0.7638	0.0105	0.4088	0.0173	0.4261	0.1182	0.0165	0.1347	0.0000	1,002.3023	1,002.3023	3.4400e-003	0.1471	1,046.2255
Worker	0.3024	0.1719	2.9489	0.0106	1.5520	4.6900e-003	1.5567	0.4126	4.3200e-003	0.4169	0.0000	967.6517	967.6517	0.0171	0.0231	974.9590
Total	0.3614	2.8370	3.7126	0.0210	1.9609	0.0220	1.9828	0.5308	0.0209	0.5516	0.0000	1,969.9539	1,969.9539	0.0205	0.1702	2,021.1845

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	0.0481	0.3259	2.2700	4.0200e-003		5.8700e-003	5.8700e-003		5.8700e-003	5.8700e-003	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	0.0481	0.3259	2.2700	4.0200e-003		5.8700e-003	5.8700e-003		5.8700e-003	5.8700e-003	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2034

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	0.0590	2.6652	0.7638	0.0105	0.4088	0.0173	0.4261	0.1182	0.0165	0.1347	0.0000	1,002.3023	1,002.3023	3.4400e-003	0.1471	1,046.2255
Worker	0.3024	0.1719	2.9489	0.0106	1.5520	4.6900e-003	1.5567	0.4126	4.3200e-003	0.4169	0.0000	967.6517	967.6517	0.0171	0.0231	974.9590
Total	0.3614	2.8370	3.7126	0.0210	1.9609	0.0220	1.9828	0.5308	0.0209	0.5516	0.0000	1,969.9539	1,969.9539	0.0205	0.1702	2,021.1845

3.4 2 BC - 2035

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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2035

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	0.0590	2.6674	0.7666	0.0104	0.4104	0.0173	0.4277	0.1186	0.0165	0.1351	0.0000	995.5428	995.5428	3.4500e-003	0.1460	1,039.1461
Worker	0.2849	0.1646	2.8735	0.0104	1.5580	4.4300e-003	1.5624	0.4142	4.0800e-003	0.4183	0.0000	957.0397	957.0397	0.0160	0.0227	964.2146
Total	0.3439	2.8319	3.6401	0.0208	1.9684	0.0217	1.9901	0.5328	0.0206	0.5534	0.0000	1,952.5825	1,952.5825	0.0195	0.1688	2,003.3606

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	0.0479	0.3244	2.2786	4.0400e-003		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
Total	0.0479	0.3244	2.2786	4.0400e-003		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2035

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	0.0590	2.6674	0.7666	0.0104	0.4104	0.0173	0.4277	0.1186	0.0165	0.1351	0.0000	995.5428	995.5428	3.4500e-003	0.1460	1,039.1461
Worker	0.2849	0.1646	2.8735	0.0104	1.5580	4.4300e-003	1.5624	0.4142	4.0800e-003	0.4183	0.0000	957.0397	957.0397	0.0160	0.0227	964.2146
Total	0.3439	2.8319	3.6401	0.0208	1.9684	0.0217	1.9901	0.5328	0.0206	0.5534	0.0000	1,952.5825	1,952.5825	0.0195	0.1688	2,003.3606

3.4 2 BC - 2036

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	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3479	344.3479	0.0128	0.0000	344.6686
Total	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3479	344.3479	0.0128	0.0000	344.6686

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2036

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	0.0592	2.6776	0.7696	0.0104	0.4120	0.0173	0.4293	0.1191	0.0166	0.1356	0.0000	999.3571	999.3571	3.4700e-003	0.1466	1,043.1275
Worker	0.2860	0.1652	2.8845	0.0105	1.5640	4.4500e-003	1.5684	0.4158	4.0900e-003	0.4199	0.0000	960.7065	960.7065	0.0161	0.0228	967.9089
Total	0.3452	2.8428	3.6541	0.0209	1.9759	0.0218	1.9977	0.5348	0.0207	0.5555	0.0000	1,960.0636	1,960.0636	0.0196	0.1694	2,011.0364

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	0.0481	0.3257	2.2874	4.0600e-003		5.6600e-003	5.6600e-003		5.6600e-003	5.6600e-003	0.0000	344.3475	344.3475	0.0128	0.0000	344.6682
Total	0.0481	0.3257	2.2874	4.0600e-003		5.6600e-003	5.6600e-003		5.6600e-003	5.6600e-003	0.0000	344.3475	344.3475	0.0128	0.0000	344.6682

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2036

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	0.0592	2.6776	0.7696	0.0104	0.4120	0.0173	0.4293	0.1191	0.0166	0.1356	0.0000	999.3571	999.3571	3.4700e-003	0.1466	1,043.1275
Worker	0.2860	0.1652	2.8845	0.0105	1.5640	4.4500e-003	1.5684	0.4158	4.0900e-003	0.4199	0.0000	960.7065	960.7065	0.0161	0.0228	967.9089
Total	0.3452	2.8428	3.6541	0.0209	1.9759	0.0218	1.9977	0.5348	0.0207	0.5555	0.0000	1,960.0636	1,960.0636	0.0196	0.1694	2,011.0364

3.4 2 BC - 2037

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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2037

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	0.0590	2.6674	0.7666	0.0104	0.4104	0.0173	0.4277	0.1186	0.0165	0.1351	0.0000	995.5428	995.5428	3.4500e-003	0.1460	1,039.1461
Worker	0.2849	0.1646	2.8735	0.0104	1.5580	4.4300e-003	1.5624	0.4142	4.0800e-003	0.4183	0.0000	957.0397	957.0397	0.0160	0.0227	964.2146
Total	0.3439	2.8319	3.6401	0.0208	1.9684	0.0217	1.9901	0.5328	0.0206	0.5534	0.0000	1,952.5825	1,952.5825	0.0195	0.1688	2,003.3606

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	0.0479	0.3244	2.2786	4.0400e-003		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
Total	0.0479	0.3244	2.2786	4.0400e-003		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2037

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	0.0590	2.6674	0.7666	0.0104	0.4104	0.0173	0.4277	0.1186	0.0165	0.1351	0.0000	995.5428	995.5428	3.4500e-003	0.1460	1,039.1461
Worker	0.2849	0.1646	2.8735	0.0104	1.5580	4.4300e-003	1.5624	0.4142	4.0800e-003	0.4183	0.0000	957.0397	957.0397	0.0160	0.0227	964.2146
Total	0.3439	2.8319	3.6401	0.0208	1.9684	0.0217	1.9901	0.5328	0.0206	0.5534	0.0000	1,952.5825	1,952.5825	0.0195	0.1688	2,003.3606

3.4 2 BC - 2038

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	0.0329	0.1934	0.4352	8.4000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	70.9725	70.9725	2.6400e-003	0.0000	71.0386
Total	0.0329	0.1934	0.4352	8.4000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	70.9725	70.9725	2.6400e-003	0.0000	71.0386

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2038

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	0.0122	0.5519	0.1586	2.1500e-003	0.0849	3.5700e-003	0.0885	0.0245	3.4200e-003	0.0280	0.0000	205.9744	205.9744	7.1000e-004	0.0302	214.9957
Worker	0.0589	0.0341	0.5945	2.1600e-003	0.3224	9.2000e-004	0.3233	0.0857	8.4000e-004	0.0865	0.0000	198.0082	198.0082	3.3200e-003	4.7000e-003	199.4927
Total	0.0712	0.5859	0.7531	4.3100e-003	0.4073	4.4900e-003	0.4117	0.1102	4.2600e-003	0.1145	0.0000	403.9826	403.9826	4.0300e-003	0.0349	414.4884

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	9.9200e-003	0.0671	0.4714	8.4000e-004		1.1700e-003	1.1700e-003		1.1700e-003	1.1700e-003	0.0000	70.9724	70.9724	2.6400e-003	0.0000	71.0385
Total	9.9200e-003	0.0671	0.4714	8.4000e-004		1.1700e-003	1.1700e-003		1.1700e-003	1.1700e-003	0.0000	70.9724	70.9724	2.6400e-003	0.0000	71.0385

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2038

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	0.0122	0.5519	0.1586	2.1500e-003	0.0849	3.5700e-003	0.0885	0.0245	3.4200e-003	0.0280	0.0000	205.9744	205.9744	7.1000e-004	0.0302	214.9957
Worker	0.0589	0.0341	0.5945	2.1600e-003	0.3224	9.2000e-004	0.3233	0.0857	8.4000e-004	0.0865	0.0000	198.0082	198.0082	3.3200e-003	4.7000e-003	199.4927
Total	0.0712	0.5859	0.7531	4.3100e-003	0.4073	4.4900e-003	0.4117	0.1102	4.2600e-003	0.1145	0.0000	403.9826	403.9826	4.0300e-003	0.0349	414.4884

3.5 2 P - 2038

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	0.0713	0.3048	0.9888	1.7500e-003		0.0117	0.0117		0.0117	0.0117	0.0000	150.6220	150.6220	5.8000e-003	0.0000	150.7669
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0713	0.3048	0.9888	1.7500e-003		0.0117	0.0117		0.0117	0.0117	0.0000	150.6220	150.6220	5.8000e-003	0.0000	150.7669

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 2 P - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3700e-003	7.9000e-004	0.0138	5.0000e-005	7.4800e-003	2.0000e-005	7.5000e-003	1.9900e-003	2.0000e-005	2.0100e-003	0.0000	4.5927	4.5927	8.0000e-005	1.1000e-004	4.6271
Total	1.3700e-003	7.9000e-004	0.0138	5.0000e-005	7.4800e-003	2.0000e-005	7.5000e-003	1.9900e-003	2.0000e-005	2.0100e-003	0.0000	4.5927	4.5927	8.0000e-005	1.1000e-004	4.6271

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	0.0175	0.0760	1.0810	1.7500e-003		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	150.6218	150.6218	5.8000e-003	0.0000	150.7667
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0175	0.0760	1.0810	1.7500e-003		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	150.6218	150.6218	5.8000e-003	0.0000	150.7667

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 2 P - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3700e-003	7.9000e-004	0.0138	5.0000e-005	7.4800e-003	2.0000e-005	7.5000e-003	1.9900e-003	2.0000e-005	2.0100e-003	0.0000	4.5927	4.5927	8.0000e-005	1.1000e-004	4.6271
Total	1.3700e-003	7.9000e-004	0.0138	5.0000e-005	7.4800e-003	2.0000e-005	7.5000e-003	1.9900e-003	2.0000e-005	2.0100e-003	0.0000	4.5927	4.5927	8.0000e-005	1.1000e-004	4.6271

3.6 2 AC - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8300e-003	0.0311	0.0736	1.2000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	10.4683	10.4683	3.9000e-004	0.0000	10.4780
Total	4.5808	0.0311	0.0736	1.2000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	10.4683	10.4683	3.9000e-004	0.0000	10.4780

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0179	0.0103	0.1803	6.5000e-004	0.0978	2.8000e-004	0.0981	0.0260	2.6000e-004	0.0263	0.0000	60.0555	60.0555	1.0100e-003	1.4300e-003	60.5057
Total	0.0179	0.0103	0.1803	6.5000e-004	0.0978	2.8000e-004	0.0981	0.0260	2.6000e-004	0.0263	0.0000	60.0555	60.0555	1.0100e-003	1.4300e-003	60.5057

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2200e-003	5.2800e-003	0.0751	1.2000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	10.4683	10.4683	3.9000e-004	0.0000	10.4780
Total	4.5771	5.2800e-003	0.0751	1.2000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	10.4683	10.4683	3.9000e-004	0.0000	10.4780

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0179	0.0103	0.1803	6.5000e-004	0.0978	2.8000e-004	0.0981	0.0260	2.6000e-004	0.0263	0.0000	60.0555	60.0555	1.0100e-003	1.4300e-003	60.5057
Total	0.0179	0.0103	0.1803	6.5000e-004	0.0978	2.8000e-004	0.0981	0.0260	2.6000e-004	0.0263	0.0000	60.0555	60.0555	1.0100e-003	1.4300e-003	60.5057

3.6 2 AC - 2039

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	2.3996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5300e-003	0.0163	0.0386	6.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	5.4895	5.4895	2.0000e-004	0.0000	5.4946
Total	2.4021	0.0163	0.0386	6.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	5.4895	5.4895	2.0000e-004	0.0000	5.4946

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2039

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	9.3700e-003	5.4200e-003	0.0946	3.4000e-004	0.0513	1.5000e-004	0.0514	0.0136	1.3000e-004	0.0138	0.0000	31.4925	31.4925	5.3000e-004	7.5000e-004	31.7286
Total	9.3700e-003	5.4200e-003	0.0946	3.4000e-004	0.0513	1.5000e-004	0.0514	0.0136	1.3000e-004	0.0138	0.0000	31.4925	31.4925	5.3000e-004	7.5000e-004	31.7286

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	2.3996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4000e-004	2.7700e-003	0.0394	6.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.4895	5.4895	2.0000e-004	0.0000	5.4946
Total	2.4002	2.7700e-003	0.0394	6.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.4895	5.4895	2.0000e-004	0.0000	5.4946

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2039

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	9.3700e-003	5.4200e-003	0.0946	3.4000e-004	0.0513	1.5000e-004	0.0514	0.0136	1.3000e-004	0.0138	0.0000	31.4925	31.4925	5.3000e-004	7.5000e-004	31.7286
Total	9.3700e-003	5.4200e-003	0.0946	3.4000e-004	0.0513	1.5000e-004	0.0514	0.0136	1.3000e-004	0.0138	0.0000	31.4925	31.4925	5.3000e-004	7.5000e-004	31.7286

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	
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	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	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Condo/Townhouse	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Regional Shopping Center	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	9.0727	0.1124	9.7380	5.2000e-004		0.0542	0.0542		0.0542	0.0542	0.0000	15.9633	15.9633	0.0152	0.0000	16.3433
Unmitigated	9.0727	0.1124	9.7380	5.2000e-004		0.0542	0.0542		0.0542	0.0542	0.0000	15.9633	15.9633	0.0152	0.0000	16.3433

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.7815					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2912	0.1124	9.7380	5.2000e-004		0.0542	0.0542		0.0542	0.0542	0.0000	15.9633	15.9633	0.0152	0.0000	16.3433
Total	9.0727	0.1124	9.7380	5.2000e-004		0.0542	0.0542		0.0542	0.0542	0.0000	15.9633	15.9633	0.0152	0.0000	16.3433

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.7815					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2912	0.1124	9.7380	5.2000e-004		0.0542	0.0542		0.0542	0.0542	0.0000	15.9633	15.9633	0.0152	0.0000	16.3433
Total	9.0727	0.1124	9.7380	5.2000e-004		0.0542	0.0542		0.0542	0.0542	0.0000	15.9633	15.9633	0.0152	0.0000	16.3433

7.0 Water Detail

7.1 Mitigation Measures Water

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
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
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

VST_phase2 - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1A Mitigated
Merced County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.30	Acre	5.30	230,868.00	0
Apartments High Rise	696.00	Dwelling Unit	24.79	696,000.00	1991
Single Family Housing	36.00	Dwelling Unit	4.13	43,200.00	103
Single Family Housing	66.00	Dwelling Unit	10.50	125,400.00	189
Single Family Housing	43.00	Dwelling Unit	17.14	139,750.00	123
Convenience Market with Gas Pumps	50.00	1000sqft	1.15	50,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2029
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data of phase 1A

Construction Phase - PD

Off-road Equipment - defaults

Off-road Equipment - defaults

Off-road Equipment - defaults

Off-road Equipment -

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - No NG and 100% electricity from solar for residential

Water And Wastewater - In operational run

Solid Waste - in operational run

Land Use Change -

Construction Off-road Equipment Mitigation - All engines used will be tier 4, 90% offroad equipment, limit traffic speed to 15 mph on unpaved roads

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	50
tblAreaCoating	Area_EF_Residential_Exterior	150	50
tblAreaCoating	Area_EF_Residential_Interior	150	50
tblAreaCoating	Area_Nonresidential_Exterior	25000	0
tblAreaCoating	Area_Nonresidential_Interior	75000	0
tblAreaCoating	Area_Residential_Exterior	677936	0
tblAreaCoating	Area_Residential_Interior	2033809	0

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	40.00	29.00
tblConstructionPhase	NumDays	110.00	81.00
tblConstructionPhase	NumDays	1,110.00	822.00
tblConstructionPhase	NumDays	75.00	56.00

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	75.00	56.00
tblConstructionPhase	PhaseEndDate	2/25/2025	2/10/2025
tblConstructionPhase	PhaseEndDate	7/29/2025	6/3/2025
tblConstructionPhase	PhaseEndDate	10/30/2029	7/27/2028
tblConstructionPhase	PhaseEndDate	2/12/2030	10/13/2028
tblConstructionPhase	PhaseEndDate	5/28/2030	1/1/2029
tblConstructionPhase	PhaseStartDate	2/26/2025	2/11/2025
tblConstructionPhase	PhaseStartDate	7/30/2025	6/4/2025
tblConstructionPhase	PhaseStartDate	10/31/2029	7/28/2028
tblConstructionPhase	PhaseStartDate	2/13/2030	10/14/2028
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	382.80	0.00
tblFireplaces	NumberGas	79.75	0.00
tblFireplaces	NumberNoFireplace	313.20	0.00
tblFireplaces	NumberNoFireplace	65.25	0.00
tblGrading	AcresOfGrading	243.00	63.00
tblGrading	AcresOfGrading	43.50	63.00
tblLandUse	LandUseSquareFeet	64,800.00	43,200.00
tblLandUse	LandUseSquareFeet	77,400.00	139,750.00
tblLandUse	LandUseSquareFeet	118,800.00	125,400.00

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LotAcreage	11.23	24.79
tblLandUse	LotAcreage	11.69	4.13
tblLandUse	LotAcreage	13.96	17.14
tblLandUse	LotAcreage	21.43	10.50
tblSolidWaste	SolidWasteGenerationRate	320.16	0.00
tblSolidWaste	SolidWasteGenerationRate	0.46	0.00
tblSolidWaste	SolidWasteGenerationRate	150.26	0.00
tblSolidWaste	SolidWasteGenerationRate	149.40	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	45,347,201.83	0.00
tblWater	IndoorWaterUseRate	3,703,626.07	0.00
tblWater	IndoorWaterUseRate	9,447,333.72	0.00
tblWater	OutdoorWaterUseRate	28,588,453.33	0.00
tblWater	OutdoorWaterUseRate	6,314,851.15	0.00
tblWater	OutdoorWaterUseRate	2,269,964.37	0.00
tblWater	OutdoorWaterUseRate	5,955,927.78	0.00
tblWoodstoves	NumberCatalytic	24.79	0.00
tblWoodstoves	NumberCatalytic	31.77	0.00

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberNoncatalytic	24.79	0.00
tblWoodstoves	NumberNoncatalytic	31.77	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	3.8945	27.9800	36.8289	0.1025	20.5180	1.1317	21.6055	10.2187	1.0412	11.2192	0.0000	10,307.6045	10,307.6045	1.9473	0.5462	10,489.0457
2026	3.7096	19.3799	35.4851	0.1006	6.3934	0.5946	6.9880	1.7168	0.5594	2.2762	0.0000	10,114.6068	10,114.6068	0.7338	0.5290	10,290.5901
2027	3.5413	19.2215	34.1705	0.0986	6.3934	0.5926	6.9861	1.7168	0.5576	2.2744	0.0000	9,912.5739	9,912.5739	0.7211	0.5126	10,083.3676
2028	116.9067	19.0924	33.0830	0.0968	6.3934	0.5907	6.9842	1.7168	0.5558	2.2726	0.0000	9,727.2576	9,727.2576	0.7160	0.4979	9,893.3914
2029	116.8788	1.3052	4.6796	0.0116	1.0926	0.0560	1.1485	0.2898	0.0556	0.3454	0.0000	1,157.1741	1,157.1741	0.0336	0.0198	1,163.9108
Maximum	116.9067	27.9800	36.8289	0.1025	20.5180	1.1317	21.6055	10.2187	1.0412	11.2192	0.0000	10,307.6045	10,307.6045	1.9473	0.5462	10,489.0457

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Energy	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
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
Total	24.6724	0.9410	69.4432	4.5100e-003	0.0000	0.3955	0.3955	0.0000	0.3955	0.3955	0.0000	295.9357	295.9357	0.1230	3.1300e-003	299.9436

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Energy	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
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
Total	24.6724	0.9410	69.4432	4.5100e-003	0.0000	0.3955	0.3955	0.0000	0.3955	0.3955	0.0000	295.9357	295.9357	0.1230	3.1300e-003	299.9436

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1A SP	Site Preparation	1/1/2025	2/10/2025	5	29	
2	1A G	Grading	2/11/2025	6/3/2025	5	81	
3	1A BC	Building Construction	6/4/2025	7/27/2028	5	822	
4	1A P	Paving	7/28/2028	10/13/2028	5	56	
5	1A AC	Architectural Coating	10/14/2028	1/1/2029	5	56	

Acres of Grading (Site Preparation Phase): 63

Acres of Grading (Grading Phase): 63

Acres of Paving: 0

Residential Indoor: 2,033,809; Residential Outdoor: 677,936; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1A SP	Rubber Tired Dozers	3	8.00	247	0.40
1A SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1A G	Excavators	2	8.00	158	0.38
1A G	Graders	1	8.00	187	0.41
1A G	Rubber Tired Dozers	1	8.00	247	0.40
1A G	Scrapers	2	8.00	367	0.48

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1A G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1A BC	Cranes	1	7.00	231	0.29
1A BC	Forklifts	3	8.00	89	0.20
1A BC	Generator Sets	1	8.00	84	0.74
1A BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1A BC	Welders	1	8.00	46	0.45
1A P	Pavers	2	8.00	130	0.42
1A P	Paving Equipment	2	8.00	132	0.36
1A P	Rollers	2	8.00	80	0.38
1A AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1A SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A BC	9	666.00	136.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A AC	1	133.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1A SP - 2025

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					20.3701	0.0000	20.3701	10.1794	0.0000	10.1794			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	20.3701	1.0868	21.4569	10.1794	0.9999	11.1793		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0641	0.0334	0.5113	1.3200e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		133.0893	133.0893	3.6900e-003	3.4400e-003	134.2061
Total	0.0641	0.0334	0.5113	1.3200e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		133.0893	133.0893	3.6900e-003	3.4400e-003	134.2061

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1A SP - 2025

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					9.1666	0.0000	9.1666	4.5808	0.0000	4.5808			0.0000			0.0000
Off-Road	0.5108	2.5793	20.8150	0.0381		0.0856	0.0856		0.0835	0.0835	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.5108	2.5793	20.8150	0.0381	9.1666	0.0856	9.2522	4.5808	0.0835	4.6643	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0641	0.0334	0.5113	1.3200e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		133.0893	133.0893	3.6900e-003	3.4400e-003	134.2061
Total	0.0641	0.0334	0.5113	1.3200e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		133.0893	133.0893	3.6900e-003	3.4400e-003	134.2061

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1A G - 2025

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					6.8469	0.0000	6.8469	3.3993	0.0000	3.3993			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.8469	1.1309	7.9778	3.3993	1.0404	4.4397		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0713	0.0371	0.5681	1.4600e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		147.8770	147.8770	4.1000e-003	3.8200e-003	149.1179
Total	0.0713	0.0371	0.5681	1.4600e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		147.8770	147.8770	4.1000e-003	3.8200e-003	149.1179

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1A G - 2025

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					3.0811	0.0000	3.0811	1.5297	0.0000	1.5297			0.0000			0.0000
Off-Road	0.7841	3.5810	32.9722	0.0621		0.1133	0.1133		0.1123	0.1123	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7841	3.5810	32.9722	0.0621	3.0811	0.1133	3.1944	1.5297	0.1123	1.6420	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0713	0.0371	0.5681	1.4600e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		147.8770	147.8770	4.1000e-003	3.8200e-003	149.1179
Total	0.0713	0.0371	0.5681	1.4600e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		147.8770	147.8770	4.1000e-003	3.8200e-003	149.1179

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1539	5.8475	1.8265	0.0268	0.9224	0.0401	0.9625	0.2656	0.0384	0.3040		2,826.825 0	2,826.825 0	9.9300e- 003	0.4190	2,951.922 7
Worker	2.3733	1.2358	18.9178	0.0487	5.4710	0.0282	5.4992	1.4512	0.0259	1.4771		4,924.305 1	4,924.305 1	0.1365	0.1272	4,965.624 9
Total	2.5271	7.0833	20.7443	0.0755	6.3934	0.0683	6.4617	1.7168	0.0643	1.7811		7,751.130 1	7,751.130 1	0.1464	0.5462	7,917.547 6

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2025

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1539	5.8475	1.8265	0.0268	0.9224	0.0401	0.9625	0.2656	0.0384	0.3040		2,826.825 0	2,826.825 0	9.9300e- 003	0.4190	2,951.922 7
Worker	2.3733	1.2358	18.9178	0.0487	5.4710	0.0282	5.4992	1.4512	0.0259	1.4771		4,924.305 1	4,924.305 1	0.1365	0.1272	4,965.624 9
Total	2.5271	7.0833	20.7443	0.0755	6.3934	0.0683	6.4617	1.7168	0.0643	1.7811		7,751.130 1	7,751.130 1	0.1464	0.5462	7,917.547 6

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1498	5.8126	1.7841	0.0263	0.9224	0.0399	0.9623	0.2656	0.0382	0.3038		2,774.902 2	2,774.902 2	9.5900e-003	0.4106	2,897.513 5
Worker	2.1924	1.0977	17.6163	0.0473	5.4710	0.0271	5.4982	1.4512	0.0250	1.4762		4,783.230 2	4,783.230 2	0.1232	0.1184	4,821.578 5
Total	2.3422	6.9102	19.4005	0.0736	6.3934	0.0670	6.4605	1.7168	0.0631	1.7799		7,558.132 4	7,558.132 4	0.1328	0.5290	7,719.092 0

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2026

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1498	5.8126	1.7841	0.0263	0.9224	0.0399	0.9623	0.2656	0.0382	0.3038		2,774.902 2	2,774.902 2	9.5900e-003	0.4106	2,897.513 5
Worker	2.1924	1.0977	17.6163	0.0473	5.4710	0.0271	5.4982	1.4512	0.0250	1.4762		4,783.230 2	4,783.230 2	0.1232	0.1184	4,821.578 5
Total	2.3422	6.9102	19.4005	0.0736	6.3934	0.0670	6.4605	1.7168	0.0631	1.7799		7,558.132 4	7,558.132 4	0.1328	0.5290	7,719.092 0

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1462	5.7716	1.7468	0.0258	0.9224	0.0396	0.9620	0.2656	0.0379	0.3035		2,719.415 0	2,719.415 0	9.2800e-003	0.4019	2,839.410 4
Worker	2.0277	0.9802	16.3390	0.0459	5.4710	0.0255	5.4965	1.4512	0.0235	1.4746		4,636.684 5	4,636.684 5	0.1109	0.1107	4,672.459 1
Total	2.1739	6.7518	18.0858	0.0716	6.3934	0.0651	6.4585	1.7168	0.0613	1.7781		7,356.099 5	7,356.099 5	0.1202	0.5126	7,511.869 5

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2027

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1462	5.7716	1.7468	0.0258	0.9224	0.0396	0.9620	0.2656	0.0379	0.3035		2,719.415 0	2,719.415 0	9.2800e- 003	0.4019	2,839.410 4
Worker	2.0277	0.9802	16.3390	0.0459	5.4710	0.0255	5.4965	1.4512	0.0235	1.4746		4,636.684 5	4,636.684 5	0.1109	0.1107	4,672.459 1
Total	2.1739	6.7518	18.0858	0.0716	6.3934	0.0651	6.4585	1.7168	0.0613	1.7781		7,356.099 5	7,356.099 5	0.1202	0.5126	7,511.869 5

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1434	5.7404	1.7201	0.0253	0.9224	0.0393	0.9617	0.2656	0.0376	0.3032		2,666.449 4	2,666.449 4	9.0700e-003	0.3935	2,783.935 5
Worker	1.8769	0.8823	15.2783	0.0446	5.4710	0.0239	5.4949	1.4512	0.0220	1.4732		4,504.333 8	4,504.333 8	0.1004	0.1044	4,537.957 9
Total	2.0203	6.6227	16.9984	0.0698	6.3934	0.0632	6.4566	1.7168	0.0596	1.7764		7,170.783 2	7,170.783 2	0.1095	0.4979	7,321.893 4

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2028

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1434	5.7404	1.7201	0.0253	0.9224	0.0393	0.9617	0.2656	0.0376	0.3032		2,666.449 4	2,666.449 4	9.0700e-003	0.3935	2,783.935 5
Worker	1.8769	0.8823	15.2783	0.0446	5.4710	0.0239	5.4949	1.4512	0.0220	1.4732		4,504.333 8	4,504.333 8	0.1004	0.1044	4,537.957 9
Total	2.0203	6.6227	16.9984	0.0698	6.3934	0.0632	6.4566	1.7168	0.0596	1.7764		7,170.783 2	7,170.783 2	0.1095	0.4979	7,321.893 4

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1A P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063
Total	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1A P - 2028

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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063
Total	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2028

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.3748	0.1762	3.0511	8.9000e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		899.5141	899.5141	0.0201	0.0209	906.2288
Total	0.3748	0.1762	3.0511	8.9000e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		899.5141	899.5141	0.0201	0.0209	906.2288

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2028

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.3748	0.1762	3.0511	8.9000e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		899.5141	899.5141	0.0201	0.0209	906.2288
Total	0.3748	0.1762	3.0511	8.9000e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		899.5141	899.5141	0.0201	0.0209	906.2288

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2029

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.3469	0.1597	2.8705	8.6600e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		875.7260	875.7260	0.0183	0.0198	882.0790
Total	0.3469	0.1597	2.8705	8.6600e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		875.7260	875.7260	0.0183	0.0198	882.0790

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2029

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.3469	0.1597	2.8705	8.6600e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		875.7260	875.7260	0.0183	0.0198	882.0790
Total	0.3469	0.1597	2.8705	8.6600e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		875.7260	875.7260	0.0183	0.0198	882.0790

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
City Park	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
Convenience Market with Gas Pumps	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
Single Family Housing	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
NaturalGas Unmitigated	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

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					
Apartments High Rise	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
City Park	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
Convenience Market with Gas Pumps	1453.42	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Single Family Housing	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		0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Convenience Market with Gas Pumps	1.45342	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Single Family Housing	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		0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

6.0 Area Detail

6.1 Mitigation Measures Area

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Unmitigated	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0818	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846		124.9446	124.9446	0.1197		127.9363
Total	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0818	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846		124.9446	124.9446	0.1197		127.9363
Total	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1A Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1A Mitigated
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.30	Acre	5.30	230,868.00	0
Apartments High Rise	696.00	Dwelling Unit	24.79	696,000.00	1991
Single Family Housing	36.00	Dwelling Unit	4.13	43,200.00	103
Single Family Housing	66.00	Dwelling Unit	10.50	125,400.00	189
Single Family Housing	43.00	Dwelling Unit	17.14	139,750.00	123
Convenience Market with Gas Pumps	50.00	1000sqft	1.15	50,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2029
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEmod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data of phase 1A

Construction Phase - PD

Off-road Equipment - defaults

Off-road Equipment - defaults

Off-road Equipment - defaults

Off-road Equipment -

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - No NG and 100% electricity from solar for residential

Water And Wastewater - In operational run

Solid Waste - in operational run

Land Use Change -

Construction Off-road Equipment Mitigation - All engines used will be tier 4, 90% offroad equipment, limit traffic speed to 15 mph on unpaved roads

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	50
tblAreaCoating	Area_EF_Residential_Exterior	150	50
tblAreaCoating	Area_EF_Residential_Interior	150	50
tblAreaCoating	Area_Nonresidential_Exterior	25000	0
tblAreaCoating	Area_Nonresidential_Interior	75000	0
tblAreaCoating	Area_Residential_Exterior	677936	0
tblAreaCoating	Area_Residential_Interior	2033809	0

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	40.00	29.00
tblConstructionPhase	NumDays	110.00	81.00
tblConstructionPhase	NumDays	1,110.00	822.00
tblConstructionPhase	NumDays	75.00	56.00

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	75.00	56.00
tblConstructionPhase	PhaseEndDate	2/25/2025	2/10/2025
tblConstructionPhase	PhaseEndDate	7/29/2025	6/3/2025
tblConstructionPhase	PhaseEndDate	10/30/2029	7/27/2028
tblConstructionPhase	PhaseEndDate	2/12/2030	10/13/2028
tblConstructionPhase	PhaseEndDate	5/28/2030	1/1/2029
tblConstructionPhase	PhaseStartDate	2/26/2025	2/11/2025
tblConstructionPhase	PhaseStartDate	7/30/2025	6/4/2025
tblConstructionPhase	PhaseStartDate	10/31/2029	7/28/2028
tblConstructionPhase	PhaseStartDate	2/13/2030	10/14/2028
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	382.80	0.00
tblFireplaces	NumberGas	79.75	0.00
tblFireplaces	NumberNoFireplace	313.20	0.00
tblFireplaces	NumberNoFireplace	65.25	0.00
tblGrading	AcresOfGrading	243.00	63.00
tblGrading	AcresOfGrading	43.50	63.00
tblLandUse	LandUseSquareFeet	64,800.00	43,200.00
tblLandUse	LandUseSquareFeet	77,400.00	139,750.00
tblLandUse	LandUseSquareFeet	118,800.00	125,400.00

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LotAcreage	11.23	24.79
tblLandUse	LotAcreage	11.69	4.13
tblLandUse	LotAcreage	13.96	17.14
tblLandUse	LotAcreage	21.43	10.50
tblSolidWaste	SolidWasteGenerationRate	320.16	0.00
tblSolidWaste	SolidWasteGenerationRate	0.46	0.00
tblSolidWaste	SolidWasteGenerationRate	150.26	0.00
tblSolidWaste	SolidWasteGenerationRate	149.40	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	45,347,201.83	0.00
tblWater	IndoorWaterUseRate	3,703,626.07	0.00
tblWater	IndoorWaterUseRate	9,447,333.72	0.00
tblWater	OutdoorWaterUseRate	28,588,453.33	0.00
tblWater	OutdoorWaterUseRate	6,314,851.15	0.00
tblWater	OutdoorWaterUseRate	2,269,964.37	0.00
tblWater	OutdoorWaterUseRate	5,955,927.78	0.00
tblWoodstoves	NumberCatalytic	24.79	0.00
tblWoodstoves	NumberCatalytic	31.77	0.00

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberNoncatalytic	24.79	0.00
tblWoodstoves	NumberNoncatalytic	31.77	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	3.6312	27.9869	34.2167	0.0974	20.5180	1.1317	21.6055	10.2187	1.0412	11.2192	0.0000	9,792.3325	9,792.3325	1.9477	0.5627	9,979.0420
2026	3.4700	19.9846	33.0911	0.0956	6.3934	0.5947	6.9881	1.7168	0.5595	2.2763	0.0000	9,615.3022	9,615.3022	0.7467	0.5443	9,796.1781
2027	3.3221	19.8008	32.0020	0.0938	6.3934	0.5928	6.9862	1.7168	0.5577	2.2745	0.0000	9,429.5809	9,429.5809	0.7333	0.5270	9,604.9500
2028	116.8684	19.6508	31.0987	0.0921	6.3934	0.5908	6.9843	1.7168	0.5559	2.2727	0.0000	9,258.8114	9,258.8114	0.7220	0.5114	9,429.2536
2029	116.8437	1.3344	4.3021	0.0107	1.0926	0.0560	1.1485	0.2898	0.0556	0.3454	0.0000	1,065.1354	1,065.1354	0.0359	0.0221	1,072.6217
Maximum	116.8684	27.9869	34.2167	0.0974	20.5180	1.1317	21.6055	10.2187	1.0412	11.2192	0.0000	9,792.3325	9,792.3325	1.9477	0.5627	9,979.0420

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Energy	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
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
Total	24.6724	0.9410	69.4432	4.5100e-003	0.0000	0.3955	0.3955	0.0000	0.3955	0.3955	0.0000	295.9357	295.9357	0.1230	3.1300e-003	299.9436

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Energy	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
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
Total	24.6724	0.9410	69.4432	4.5100e-003	0.0000	0.3955	0.3955	0.0000	0.3955	0.3955	0.0000	295.9357	295.9357	0.1230	3.1300e-003	299.9436

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1A SP	Site Preparation	1/1/2025	2/10/2025	5	29	
2	1A G	Grading	2/11/2025	6/3/2025	5	81	
3	1A BC	Building Construction	6/4/2025	7/27/2028	5	822	
4	1A P	Paving	7/28/2028	10/13/2028	5	56	
5	1A AC	Architectural Coating	10/14/2028	1/1/2029	5	56	

Acres of Grading (Site Preparation Phase): 63

Acres of Grading (Grading Phase): 63

Acres of Paving: 0

Residential Indoor: 2,033,809; Residential Outdoor: 677,936; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1A SP	Rubber Tired Dozers	3	8.00	247	0.40
1A SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1A G	Excavators	2	8.00	158	0.38
1A G	Graders	1	8.00	187	0.41
1A G	Rubber Tired Dozers	1	8.00	247	0.40
1A G	Scrapers	2	8.00	367	0.48

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1A G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1A BC	Cranes	1	7.00	231	0.29
1A BC	Forklifts	3	8.00	89	0.20
1A BC	Generator Sets	1	8.00	84	0.74
1A BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1A BC	Welders	1	8.00	46	0.45
1A P	Pavers	2	8.00	130	0.42
1A P	Paving Equipment	2	8.00	132	0.36
1A P	Rollers	2	8.00	80	0.38
1A AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1A SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A BC	9	666.00	136.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A AC	1	133.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1A SP - 2025

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					20.3701	0.0000	20.3701	10.1794	0.0000	10.1794			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	20.3701	1.0868	21.4569	10.1794	0.9999	11.1793		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0573	0.0396	0.4391	1.1800e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		119.0089	119.0089	4.0800e-003	3.8500e-003	120.2579
Total	0.0573	0.0396	0.4391	1.1800e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		119.0089	119.0089	4.0800e-003	3.8500e-003	120.2579

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1A SP - 2025

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					9.1666	0.0000	9.1666	4.5808	0.0000	4.5808			0.0000			0.0000
Off-Road	0.5108	2.5793	20.8150	0.0381		0.0856	0.0856		0.0835	0.0835	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.5108	2.5793	20.8150	0.0381	9.1666	0.0856	9.2522	4.5808	0.0835	4.6643	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0573	0.0396	0.4391	1.1800e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		119.0089	119.0089	4.0800e-003	3.8500e-003	120.2579
Total	0.0573	0.0396	0.4391	1.1800e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		119.0089	119.0089	4.0800e-003	3.8500e-003	120.2579

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1A G - 2025

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					6.8469	0.0000	6.8469	3.3993	0.0000	3.3993			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.8469	1.1309	7.9778	3.3993	1.0404	4.4397		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0637	0.0440	0.4879	1.3100e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		132.2321	132.2321	4.5300e-003	4.2800e-003	133.6199
Total	0.0637	0.0440	0.4879	1.3100e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		132.2321	132.2321	4.5300e-003	4.2800e-003	133.6199

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1A G - 2025

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					3.0811	0.0000	3.0811	1.5297	0.0000	1.5297			0.0000			0.0000
Off-Road	0.7841	3.5810	32.9722	0.0621		0.1133	0.1133		0.1123	0.1123	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7841	3.5810	32.9722	0.0621	3.0811	0.1133	3.1944	1.5297	0.1123	1.6420	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0637	0.0440	0.4879	1.3100e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		132.2321	132.2321	4.5300e-003	4.2800e-003	133.6199
Total	0.0637	0.0440	0.4879	1.3100e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		132.2321	132.2321	4.5300e-003	4.2800e-003	133.6199

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1441	6.2535	1.8850	0.0268	0.9224	0.0402	0.9626	0.2656	0.0385	0.3041		2,832.528 6	2,832.528 6	9.4800e-003	0.4203	2,958.000 8
Worker	2.1197	1.4638	16.2470	0.0436	5.4710	0.0282	5.4992	1.4512	0.0259	1.4771		4,403.329 6	4,403.329 6	0.1508	0.1424	4,449.543 1
Total	2.2638	7.7173	18.1320	0.0704	6.3934	0.0684	6.4618	1.7168	0.0644	1.7812		7,235.858 2	7,235.858 2	0.1603	0.5627	7,407.543 9

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2025

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1441	6.2535	1.8850	0.0268	0.9224	0.0402	0.9626	0.2656	0.0385	0.3041		2,832.528 6	2,832.528 6	9.4800e-003	0.4203	2,958.000 8
Worker	2.1197	1.4638	16.2470	0.0436	5.4710	0.0282	5.4992	1.4512	0.0259	1.4771		4,403.329 6	4,403.329 6	0.1508	0.1424	4,449.543 1
Total	2.2638	7.7173	18.1320	0.0704	6.3934	0.0684	6.4618	1.7168	0.0644	1.7812		7,235.858 2	7,235.858 2	0.1603	0.5627	7,407.543 9

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1402	6.2154	1.8426	0.0263	0.9224	0.0400	0.9624	0.2656	0.0383	0.3039		2,780.516 1	2,780.516 1	9.1500e-003	0.4119	2,903.487 7
Worker	1.9624	1.2995	15.1638	0.0423	5.4710	0.0271	5.4982	1.4512	0.0250	1.4762		4,278.311 8	4,278.311 8	0.1366	0.1324	4,321.192 3
Total	2.1026	7.5149	17.0064	0.0687	6.3934	0.0671	6.4606	1.7168	0.0632	1.7801		7,058.827 9	7,058.827 9	0.1457	0.5443	7,224.680 0

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2026

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1402	6.2154	1.8426	0.0263	0.9224	0.0400	0.9624	0.2656	0.0383	0.3039		2,780.516 1	2,780.516 1	9.1500e-003	0.4119	2,903.487 7
Worker	1.9624	1.2995	15.1638	0.0423	5.4710	0.0271	5.4982	1.4512	0.0250	1.4762		4,278.311 8	4,278.311 8	0.1366	0.1324	4,321.192 3
Total	2.1026	7.5149	17.0064	0.0687	6.3934	0.0671	6.4606	1.7168	0.0632	1.7801		7,058.827 9	7,058.827 9	0.1457	0.5443	7,224.680 0

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1366	6.1711	1.8052	0.0258	0.9224	0.0397	0.9621	0.2656	0.0380	0.3036		2,724.941 3	2,724.941 3	8.8500e-003	0.4031	2,845.284 6
Worker	1.8181	1.1600	14.1121	0.0410	5.4710	0.0255	5.4965	1.4512	0.0235	1.4746		4,148.165 2	4,148.165 2	0.1235	0.1239	4,188.167 4
Total	1.9547	7.3311	15.9173	0.0669	6.3934	0.0652	6.4586	1.7168	0.0614	1.7783		6,873.106 5	6,873.106 5	0.1324	0.5270	7,033.451 9

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2027

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1366	6.1711	1.8052	0.0258	0.9224	0.0397	0.9621	0.2656	0.0380	0.3036		2,724.941 3	2,724.941 3	8.8500e-003	0.4031	2,845.284 6
Worker	1.8181	1.1600	14.1121	0.0410	5.4710	0.0255	5.4965	1.4512	0.0235	1.4746		4,148.165 2	4,148.165 2	0.1235	0.1239	4,188.167 4
Total	1.9547	7.3311	15.9173	0.0669	6.3934	0.0652	6.4586	1.7168	0.0614	1.7783		6,873.106 5	6,873.106 5	0.1324	0.5270	7,033.451 9

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1338	6.1374	1.7784	0.0253	0.9224	0.0394	0.9618	0.2656	0.0377	0.3033		2,671.885 8	2,671.885 8	8.6400e- 003	0.3947	2,789.709 6
Worker	1.6849	1.0437	13.2356	0.0399	5.4710	0.0239	5.4949	1.4512	0.0220	1.4732		4,030.451 2	4,030.451 2	0.1124	0.1167	4,068.045 9
Total	1.8187	7.1811	15.0140	0.0652	6.3934	0.0633	6.4567	1.7168	0.0597	1.7765		6,702.337 0	6,702.337 0	0.1210	0.5114	6,857.755 5

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2028

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1338	6.1374	1.7784	0.0253	0.9224	0.0394	0.9618	0.2656	0.0377	0.3033		2,671.885 8	2,671.885 8	8.6400e- 003	0.3947	2,789.709 6
Worker	1.6849	1.0437	13.2356	0.0399	5.4710	0.0239	5.4949	1.4512	0.0220	1.4732		4,030.451 2	4,030.451 2	0.1124	0.1167	4,068.045 9
Total	1.8187	7.1811	15.0140	0.0652	6.3934	0.0633	6.4567	1.7168	0.0597	1.7765		6,702.337 0	6,702.337 0	0.1210	0.5114	6,857.755 5

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1A P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227
Total	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1A P - 2028

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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227
Total	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2028

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.3365	0.2084	2.6432	7.9600e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		804.8799	804.8799	0.0224	0.0233	812.3876
Total	0.3365	0.2084	2.6432	7.9600e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		804.8799	804.8799	0.0224	0.0233	812.3876

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2028

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.3365	0.2084	2.6432	7.9600e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		804.8799	804.8799	0.0224	0.0233	812.3876
Total	0.3365	0.2084	2.6432	7.9600e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		804.8799	804.8799	0.0224	0.0233	812.3876

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2029

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.3118	0.1889	2.4929	7.7500e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		783.6874	783.6874	0.0205	0.0221	790.7898
Total	0.3118	0.1889	2.4929	7.7500e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		783.6874	783.6874	0.0205	0.0221	790.7898

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2029

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.3118	0.1889	2.4929	7.7500e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		783.6874	783.6874	0.0205	0.0221	790.7898
Total	0.3118	0.1889	2.4929	7.7500e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		783.6874	783.6874	0.0205	0.0221	790.7898

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
City Park	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
Convenience Market with Gas Pumps	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
Single Family Housing	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
NaturalGas Unmitigated	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

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					
Apartments High Rise	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
City Park	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
Convenience Market with Gas Pumps	1453.42	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Single Family Housing	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		0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Convenience Market with Gas Pumps	1.45342	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Single Family Housing	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		0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

6.0 Area Detail

6.1 Mitigation Measures Area

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Unmitigated	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0818	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846		124.9446	124.9446	0.1197		127.9363
Total	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0818	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846		124.9446	124.9446	0.1197		127.9363
Total	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1A Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_1A Unmitigated

Merced County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.30	Acre	5.30	230,868.00	0
Apartments High Rise	696.00	Dwelling Unit	24.79	696,000.00	1991
Single Family Housing	36.00	Dwelling Unit	4.13	43,200.00	103
Single Family Housing	66.00	Dwelling Unit	10.50	125,400.00	189
Single Family Housing	43.00	Dwelling Unit	17.14	139,750.00	123
Convenience Market with Gas Pumps	50.00	1000sqft	1.15	50,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2029
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEmod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data of phase 1A

Construction Phase - PD

Off-road Equipment - defaults

Off-road Equipment - defaults

Off-road Equipment - defaults

Off-road Equipment -

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - No NG and 100% electricity from solar for residential

Water And Wastewater - In operational run

Solid Waste - in operational run

Land Use Change -

Construction Off-road Equipment Mitigation - All engines used will be tier 4, 90% offroad equipment, limit traffic speed to 15 mph on unpaved roads

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	50
tblAreaCoating	Area_EF_Residential_Exterior	150	50
tblAreaCoating	Area_EF_Residential_Interior	150	50
tblAreaCoating	Area_Nonresidential_Exterior	25000	0
tblAreaCoating	Area_Nonresidential_Interior	75000	0
tblAreaCoating	Area_Residential_Exterior	677936	0
tblAreaCoating	Area_Residential_Interior	2033809	0

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	40.00	30.00
tblConstructionPhase	NumDays	110.00	81.00
tblConstructionPhase	NumDays	1,110.00	822.00
tblConstructionPhase	NumDays	75.00	56.00
tblConstructionPhase	NumDays	75.00	56.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	382.80	0.00
tblFireplaces	NumberGas	79.75	0.00
tblFireplaces	NumberNoFireplace	313.20	0.00
tblFireplaces	NumberNoFireplace	65.25	0.00
tblGrading	AcresOfGrading	243.00	63.00
tblGrading	AcresOfGrading	45.00	63.00
tblLandUse	LandUseSquareFeet	64,800.00	43,200.00
tblLandUse	LandUseSquareFeet	77,400.00	139,750.00
tblLandUse	LandUseSquareFeet	118,800.00	125,400.00
tblLandUse	LotAcreage	11.23	24.79
tblLandUse	LotAcreage	11.69	4.13
tblLandUse	LotAcreage	13.96	17.14
tblLandUse	LotAcreage	21.43	10.50

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	320.16	0.00
tblSolidWaste	SolidWasteGenerationRate	0.46	0.00
tblSolidWaste	SolidWasteGenerationRate	150.26	0.00
tblSolidWaste	SolidWasteGenerationRate	149.40	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	45,347,201.83	0.00
tblWater	IndoorWaterUseRate	3,703,626.07	0.00
tblWater	IndoorWaterUseRate	9,447,333.72	0.00
tblWater	OutdoorWaterUseRate	28,588,453.33	0.00
tblWater	OutdoorWaterUseRate	6,314,851.15	0.00
tblWater	OutdoorWaterUseRate	2,269,964.37	0.00
tblWater	OutdoorWaterUseRate	5,955,927.78	0.00
tblWoodstoves	NumberCatalytic	24.79	0.00
tblWoodstoves	NumberCatalytic	31.77	0.00
tblWoodstoves	NumberNoncatalytic	24.79	0.00
tblWoodstoves	NumberNoncatalytic	31.77	0.00

2.0 Emissions Summary

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2025	5.5094	53.2473	45.3223	0.1029	27.4524	2.2193	29.6717	13.6532	2.0418	15.6950	0.0000	10,307.6045	10,307.6045	3.1441	0.5462	10,489.0457
2026	3.7096	19.3799	35.4851	0.1006	6.3934	0.5946	6.9880	1.7168	0.5594	2.2762	0.0000	10,114.6068	10,114.6068	0.7338	0.5290	10,290.5901
2027	3.5413	19.2215	34.1705	0.0986	6.3934	0.5926	6.9861	1.7168	0.5576	2.2744	0.0000	9,912.5739	9,912.5739	0.7211	0.5126	10,083.3676
2028	116.9067	19.0924	33.0830	0.0968	6.3934	0.5907	6.9842	1.7168	0.5558	2.2726	0.0000	9,727.2576	9,727.2576	0.7160	0.4979	9,893.3914
2029	116.8788	1.3052	4.6796	0.0116	1.0926	0.0560	1.1485	0.2898	0.0556	0.3454	0.0000	1,157.1741	1,157.1741	0.0336	0.0198	1,163.9108
Maximum	116.9067	53.2473	45.3223	0.1029	27.4524	2.2193	29.6717	13.6532	2.0418	15.6950	0.0000	10,307.6045	10,307.6045	3.1441	0.5462	10,489.0457

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Energy	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
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
Total	24.6724	0.9410	69.4432	4.5100e-003	0.0000	0.3955	0.3955	0.0000	0.3955	0.3955	0.0000	295.9357	295.9357	0.1230	3.1300e-003	299.9436

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Energy	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
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
Total	24.6724	0.9410	69.4432	4.5100e-003	0.0000	0.3955	0.3955	0.0000	0.3955	0.3955	0.0000	295.9357	295.9357	0.1230	3.1300e-003	299.9436

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1A SP	Site Preparation	1/1/2025	2/11/2025	5	30	
2	1A G	Grading	2/11/2025	6/3/2025	5	81	
3	1A BC	Building Construction	6/4/2025	7/27/2028	5	822	
4	1A P	Paving	7/28/2028	10/13/2028	5	56	
5	1A AC	Architectural Coating	10/14/2028	1/1/2029	5	56	

Acres of Grading (Site Preparation Phase): 63

Acres of Grading (Grading Phase): 63

Acres of Paving: 0

Residential Indoor: 2,033,809; Residential Outdoor: 677,936; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1A SP	Rubber Tired Dozers	3	8.00	247	0.40
1A SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1A G	Excavators	2	8.00	158	0.38
1A G	Graders	1	8.00	187	0.41
1A G	Rubber Tired Dozers	1	8.00	247	0.40
1A G	Scrapers	2	8.00	367	0.48

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1A G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1A BC	Cranes	1	7.00	231	0.29
1A BC	Forklifts	3	8.00	89	0.20
1A BC	Generator Sets	1	8.00	84	0.74
1A BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1A BC	Welders	1	8.00	46	0.45
1A P	Pavers	2	8.00	130	0.42
1A P	Paving Equipment	2	8.00	132	0.36
1A P	Rollers	2	8.00	80	0.38
1A AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1A SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A BC	9	666.00	136.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A AC	1	133.00	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

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1A SP - 2025

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					20.2933	0.0000	20.2933	10.1712	0.0000	10.1712			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	20.2933	1.0868	21.3801	10.1712	0.9999	11.1710		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0641	0.0334	0.5113	1.3200e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		133.0893	133.0893	3.6900e-003	3.4400e-003	134.2061
Total	0.0641	0.0334	0.5113	1.3200e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		133.0893	133.0893	3.6900e-003	3.4400e-003	134.2061

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1A SP - 2025

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					9.1320	0.0000	9.1320	4.5770	0.0000	4.5770			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	9.1320	1.0868	10.2188	4.5770	0.9999	5.5769	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0641	0.0334	0.5113	1.3200e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		133.0893	133.0893	3.6900e-003	3.4400e-003	134.2061
Total	0.0641	0.0334	0.5113	1.3200e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		133.0893	133.0893	3.6900e-003	3.4400e-003	134.2061

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1A G - 2025

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					6.8469	0.0000	6.8469	3.3993	0.0000	3.3993			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.8469	1.1309	7.9778	3.3993	1.0404	4.4397		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0713	0.0371	0.5681	1.4600e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		147.8770	147.8770	4.1000e-003	3.8200e-003	149.1179
Total	0.0713	0.0371	0.5681	1.4600e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		147.8770	147.8770	4.1000e-003	3.8200e-003	149.1179

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1A G - 2025

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					3.0811	0.0000	3.0811	1.5297	0.0000	1.5297			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.0811	1.1309	4.2120	1.5297	1.0404	2.5701	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0713	0.0371	0.5681	1.4600e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		147.8770	147.8770	4.1000e-003	3.8200e-003	149.1179
Total	0.0713	0.0371	0.5681	1.4600e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		147.8770	147.8770	4.1000e-003	3.8200e-003	149.1179

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1539	5.8475	1.8265	0.0268	0.9224	0.0401	0.9625	0.2656	0.0384	0.3040		2,826.825 0	2,826.825 0	9.9300e- 003	0.4190	2,951.922 7
Worker	2.3733	1.2358	18.9178	0.0487	5.4710	0.0282	5.4992	1.4512	0.0259	1.4771		4,924.305 1	4,924.305 1	0.1365	0.1272	4,965.624 9
Total	2.5271	7.0833	20.7443	0.0755	6.3934	0.0683	6.4617	1.7168	0.0643	1.7811		7,751.130 1	7,751.130 1	0.1464	0.5462	7,917.547 6

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1539	5.8475	1.8265	0.0268	0.9224	0.0401	0.9625	0.2656	0.0384	0.3040		2,826.825 0	2,826.825 0	9.9300e- 003	0.4190	2,951.922 7
Worker	2.3733	1.2358	18.9178	0.0487	5.4710	0.0282	5.4992	1.4512	0.0259	1.4771		4,924.305 1	4,924.305 1	0.1365	0.1272	4,965.624 9
Total	2.5271	7.0833	20.7443	0.0755	6.3934	0.0683	6.4617	1.7168	0.0643	1.7811		7,751.130 1	7,751.130 1	0.1464	0.5462	7,917.547 6

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1498	5.8126	1.7841	0.0263	0.9224	0.0399	0.9623	0.2656	0.0382	0.3038		2,774.902 2	2,774.902 2	9.5900e-003	0.4106	2,897.513 5
Worker	2.1924	1.0977	17.6163	0.0473	5.4710	0.0271	5.4982	1.4512	0.0250	1.4762		4,783.230 2	4,783.230 2	0.1232	0.1184	4,821.578 5
Total	2.3422	6.9102	19.4005	0.0736	6.3934	0.0670	6.4605	1.7168	0.0631	1.7799		7,558.132 4	7,558.132 4	0.1328	0.5290	7,719.092 0

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1498	5.8126	1.7841	0.0263	0.9224	0.0399	0.9623	0.2656	0.0382	0.3038		2,774.902 2	2,774.902 2	9.5900e-003	0.4106	2,897.513 5
Worker	2.1924	1.0977	17.6163	0.0473	5.4710	0.0271	5.4982	1.4512	0.0250	1.4762		4,783.230 2	4,783.230 2	0.1232	0.1184	4,821.578 5
Total	2.3422	6.9102	19.4005	0.0736	6.3934	0.0670	6.4605	1.7168	0.0631	1.7799		7,558.132 4	7,558.132 4	0.1328	0.5290	7,719.092 0

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1462	5.7716	1.7468	0.0258	0.9224	0.0396	0.9620	0.2656	0.0379	0.3035		2,719.415 0	2,719.415 0	9.2800e-003	0.4019	2,839.410 4
Worker	2.0277	0.9802	16.3390	0.0459	5.4710	0.0255	5.4965	1.4512	0.0235	1.4746		4,636.684 5	4,636.684 5	0.1109	0.1107	4,672.459 1
Total	2.1739	6.7518	18.0858	0.0716	6.3934	0.0651	6.4585	1.7168	0.0613	1.7781		7,356.099 5	7,356.099 5	0.1202	0.5126	7,511.869 5

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1462	5.7716	1.7468	0.0258	0.9224	0.0396	0.9620	0.2656	0.0379	0.3035		2,719.415 0	2,719.415 0	9.2800e- 003	0.4019	2,839.410 4
Worker	2.0277	0.9802	16.3390	0.0459	5.4710	0.0255	5.4965	1.4512	0.0235	1.4746		4,636.684 5	4,636.684 5	0.1109	0.1107	4,672.459 1
Total	2.1739	6.7518	18.0858	0.0716	6.3934	0.0651	6.4585	1.7168	0.0613	1.7781		7,356.099 5	7,356.099 5	0.1202	0.5126	7,511.869 5

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1434	5.7404	1.7201	0.0253	0.9224	0.0393	0.9617	0.2656	0.0376	0.3032		2,666.449 4	2,666.449 4	9.0700e-003	0.3935	2,783.935 5
Worker	1.8769	0.8823	15.2783	0.0446	5.4710	0.0239	5.4949	1.4512	0.0220	1.4732		4,504.333 8	4,504.333 8	0.1004	0.1044	4,537.957 9
Total	2.0203	6.6227	16.9984	0.0698	6.3934	0.0632	6.4566	1.7168	0.0596	1.7764		7,170.783 2	7,170.783 2	0.1095	0.4979	7,321.893 4

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1434	5.7404	1.7201	0.0253	0.9224	0.0393	0.9617	0.2656	0.0376	0.3032		2,666.449 4	2,666.449 4	9.0700e- 003	0.3935	2,783.935 5
Worker	1.8769	0.8823	15.2783	0.0446	5.4710	0.0239	5.4949	1.4512	0.0220	1.4732		4,504.333 8	4,504.333 8	0.1004	0.1044	4,537.957 9
Total	2.0203	6.6227	16.9984	0.0698	6.3934	0.0632	6.4566	1.7168	0.0596	1.7764		7,170.783 2	7,170.783 2	0.1095	0.4979	7,321.893 4

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1A P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063
Total	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1A P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063
Total	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2028

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.3748	0.1762	3.0511	8.9000e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		899.5141	899.5141	0.0201	0.0209	906.2288
Total	0.3748	0.1762	3.0511	8.9000e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		899.5141	899.5141	0.0201	0.0209	906.2288

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2028

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.3748	0.1762	3.0511	8.9000e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		899.5141	899.5141	0.0201	0.0209	906.2288
Total	0.3748	0.1762	3.0511	8.9000e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		899.5141	899.5141	0.0201	0.0209	906.2288

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2029

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.3469	0.1597	2.8705	8.6600e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		875.7260	875.7260	0.0183	0.0198	882.0790
Total	0.3469	0.1597	2.8705	8.6600e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		875.7260	875.7260	0.0183	0.0198	882.0790

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2029

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.3469	0.1597	2.8705	8.6600e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		875.7260	875.7260	0.0183	0.0198	882.0790
Total	0.3469	0.1597	2.8705	8.6600e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		875.7260	875.7260	0.0183	0.0198	882.0790

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
City Park	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
Convenience Market with Gas Pumps	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
Single Family Housing	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
NaturalGas Unmitigated	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

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					
Apartments High Rise	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
City Park	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
Convenience Market with Gas Pumps	1453.42	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Single Family Housing	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		0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Convenience Market with Gas Pumps	1.45342	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Single Family Housing	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		0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

6.0 Area Detail

6.1 Mitigation Measures Area

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Unmitigated	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0818	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846		124.9446	124.9446	0.1197		127.9363
Total	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0818	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846		124.9446	124.9446	0.1197		127.9363
Total	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1A Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1A Unmitigated
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.30	Acre	5.30	230,868.00	0
Apartments High Rise	696.00	Dwelling Unit	24.79	696,000.00	1991
Single Family Housing	36.00	Dwelling Unit	4.13	43,200.00	103
Single Family Housing	66.00	Dwelling Unit	10.50	125,400.00	189
Single Family Housing	43.00	Dwelling Unit	17.14	139,750.00	123
Convenience Market with Gas Pumps	50.00	1000sqft	1.15	50,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2029
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data of phase 1A

Construction Phase - PD

Off-road Equipment - defaults

Off-road Equipment - defaults

Off-road Equipment - defaults

Off-road Equipment -

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - No NG and 100% electricity from solar for residential

Water And Wastewater - In operational run

Solid Waste - in operational run

Land Use Change -

Construction Off-road Equipment Mitigation - All engines used will be tier 4, 90% offroad equipment, limit traffic speed to 15 mph on unpaved roads

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	50
tblAreaCoating	Area_EF_Residential_Exterior	150	50
tblAreaCoating	Area_EF_Residential_Interior	150	50
tblAreaCoating	Area_Nonresidential_Exterior	25000	0
tblAreaCoating	Area_Nonresidential_Interior	75000	0
tblAreaCoating	Area_Residential_Exterior	677936	0
tblAreaCoating	Area_Residential_Interior	2033809	0

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	40.00	30.00
tblConstructionPhase	NumDays	110.00	81.00
tblConstructionPhase	NumDays	1,110.00	822.00
tblConstructionPhase	NumDays	75.00	56.00
tblConstructionPhase	NumDays	75.00	56.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	382.80	0.00
tblFireplaces	NumberGas	79.75	0.00
tblFireplaces	NumberNoFireplace	313.20	0.00
tblFireplaces	NumberNoFireplace	65.25	0.00
tblGrading	AcresOfGrading	243.00	63.00
tblGrading	AcresOfGrading	45.00	63.00
tblLandUse	LandUseSquareFeet	64,800.00	43,200.00
tblLandUse	LandUseSquareFeet	77,400.00	139,750.00
tblLandUse	LandUseSquareFeet	118,800.00	125,400.00
tblLandUse	LotAcreage	11.23	24.79
tblLandUse	LotAcreage	11.69	4.13
tblLandUse	LotAcreage	13.96	17.14
tblLandUse	LotAcreage	21.43	10.50

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	320.16	0.00
tblSolidWaste	SolidWasteGenerationRate	0.46	0.00
tblSolidWaste	SolidWasteGenerationRate	150.26	0.00
tblSolidWaste	SolidWasteGenerationRate	149.40	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	45,347,201.83	0.00
tblWater	IndoorWaterUseRate	3,703,626.07	0.00
tblWater	IndoorWaterUseRate	9,447,333.72	0.00
tblWater	OutdoorWaterUseRate	28,588,453.33	0.00
tblWater	OutdoorWaterUseRate	6,314,851.15	0.00
tblWater	OutdoorWaterUseRate	2,269,964.37	0.00
tblWater	OutdoorWaterUseRate	5,955,927.78	0.00
tblWoodstoves	NumberCatalytic	24.79	0.00
tblWoodstoves	NumberCatalytic	31.77	0.00
tblWoodstoves	NumberNoncatalytic	24.79	0.00
tblWoodstoves	NumberNoncatalytic	31.77	0.00

2.0 Emissions Summary

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2025	5.4949	53.2603	45.1699	0.1026	27.4524	2.2193	29.6717	13.6532	2.0418	15.6950	0.0000	9,948.6262	9,948.6262	3.1449	0.5627	10,029.6713
2026	3.4700	19.9846	33.0911	0.0956	6.3934	0.5947	6.9881	1.7168	0.5595	2.2763	0.0000	9,615.3022	9,615.3022	0.7467	0.5443	9,796.1781
2027	3.3221	19.8008	32.0020	0.0938	6.3934	0.5928	6.9862	1.7168	0.5577	2.2745	0.0000	9,429.5809	9,429.5809	0.7333	0.5270	9,604.9500
2028	116.8684	19.6508	31.0987	0.0921	6.3934	0.5908	6.9843	1.7168	0.5559	2.2727	0.0000	9,258.8114	9,258.8114	0.7220	0.5114	9,429.2536
2029	116.8437	1.3344	4.3021	0.0107	1.0926	0.0560	1.1485	0.2898	0.0556	0.3454	0.0000	1,065.1354	1,065.1354	0.0359	0.0221	1,072.6217
Maximum	116.8684	53.2603	45.1699	0.1026	27.4524	2.2193	29.6717	13.6532	2.0418	15.6950	0.0000	9,948.6262	9,948.6262	3.1449	0.5627	10,029.6713

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Energy	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
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
Total	24.6724	0.9410	69.4432	4.5100e-003	0.0000	0.3955	0.3955	0.0000	0.3955	0.3955	0.0000	295.9357	295.9357	0.1230	3.1300e-003	299.9436

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Energy	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
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
Total	24.6724	0.9410	69.4432	4.5100e-003	0.0000	0.3955	0.3955	0.0000	0.3955	0.3955	0.0000	295.9357	295.9357	0.1230	3.1300e-003	299.9436

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1A SP	Site Preparation	1/1/2025	2/11/2025	5	30	
2	1A G	Grading	2/11/2025	6/3/2025	5	81	
3	1A BC	Building Construction	6/4/2025	7/27/2028	5	822	
4	1A P	Paving	7/28/2028	10/13/2028	5	56	
5	1A AC	Architectural Coating	10/14/2028	1/1/2029	5	56	

Acres of Grading (Site Preparation Phase): 63

Acres of Grading (Grading Phase): 63

Acres of Paving: 0

Residential Indoor: 2,033,809; Residential Outdoor: 677,936; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1A SP	Rubber Tired Dozers	3	8.00	247	0.40
1A SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1A G	Excavators	2	8.00	158	0.38
1A G	Graders	1	8.00	187	0.41
1A G	Rubber Tired Dozers	1	8.00	247	0.40
1A G	Scrapers	2	8.00	367	0.48

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1A G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1A BC	Cranes	1	7.00	231	0.29
1A BC	Forklifts	3	8.00	89	0.20
1A BC	Generator Sets	1	8.00	84	0.74
1A BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1A BC	Welders	1	8.00	46	0.45
1A P	Pavers	2	8.00	130	0.42
1A P	Paving Equipment	2	8.00	132	0.36
1A P	Rollers	2	8.00	80	0.38
1A AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1A SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A BC	9	666.00	136.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1A AC	1	133.00	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

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1A SP - 2025

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					20.2933	0.0000	20.2933	10.1712	0.0000	10.1712			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	20.2933	1.0868	21.3801	10.1712	0.9999	11.1710		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0573	0.0396	0.4391	1.1800e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		119.0089	119.0089	4.0800e-003	3.8500e-003	120.2579
Total	0.0573	0.0396	0.4391	1.1800e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		119.0089	119.0089	4.0800e-003	3.8500e-003	120.2579

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1A SP - 2025

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					9.1320	0.0000	9.1320	4.5770	0.0000	4.5770			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	9.1320	1.0868	10.2188	4.5770	0.9999	5.5769	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0573	0.0396	0.4391	1.1800e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		119.0089	119.0089	4.0800e-003	3.8500e-003	120.2579
Total	0.0573	0.0396	0.4391	1.1800e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		119.0089	119.0089	4.0800e-003	3.8500e-003	120.2579

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1A G - 2025

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					6.8469	0.0000	6.8469	3.3993	0.0000	3.3993			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.8469	1.1309	7.9778	3.3993	1.0404	4.4397		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

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	0.0637	0.0440	0.4879	1.3100e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		132.2321	132.2321	4.5300e-003	4.2800e-003	133.6199
Total	0.0637	0.0440	0.4879	1.3100e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		132.2321	132.2321	4.5300e-003	4.2800e-003	133.6199

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1A G - 2025

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					3.0811	0.0000	3.0811	1.5297	0.0000	1.5297			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.0811	1.1309	4.2120	1.5297	1.0404	2.5701	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0637	0.0440	0.4879	1.3100e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		132.2321	132.2321	4.5300e-003	4.2800e-003	133.6199
Total	0.0637	0.0440	0.4879	1.3100e-003	0.1643	8.5000e-004	0.1651	0.0436	7.8000e-004	0.0444		132.2321	132.2321	4.5300e-003	4.2800e-003	133.6199

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1441	6.2535	1.8850	0.0268	0.9224	0.0402	0.9626	0.2656	0.0385	0.3041		2,832.528 6	2,832.528 6	9.4800e-003	0.4203	2,958.000 8
Worker	2.1197	1.4638	16.2470	0.0436	5.4710	0.0282	5.4992	1.4512	0.0259	1.4771		4,403.329 6	4,403.329 6	0.1508	0.1424	4,449.543 1
Total	2.2638	7.7173	18.1320	0.0704	6.3934	0.0684	6.4618	1.7168	0.0644	1.7812		7,235.858 2	7,235.858 2	0.1603	0.5627	7,407.543 9

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1441	6.2535	1.8850	0.0268	0.9224	0.0402	0.9626	0.2656	0.0385	0.3041		2,832.528 6	2,832.528 6	9.4800e- 003	0.4203	2,958.000 8
Worker	2.1197	1.4638	16.2470	0.0436	5.4710	0.0282	5.4992	1.4512	0.0259	1.4771		4,403.329 6	4,403.329 6	0.1508	0.1424	4,449.543 1
Total	2.2638	7.7173	18.1320	0.0704	6.3934	0.0684	6.4618	1.7168	0.0644	1.7812		7,235.858 2	7,235.858 2	0.1603	0.5627	7,407.543 9

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1402	6.2154	1.8426	0.0263	0.9224	0.0400	0.9624	0.2656	0.0383	0.3039		2,780.516 1	2,780.516 1	9.1500e-003	0.4119	2,903.487 7
Worker	1.9624	1.2995	15.1638	0.0423	5.4710	0.0271	5.4982	1.4512	0.0250	1.4762		4,278.311 8	4,278.311 8	0.1366	0.1324	4,321.192 3
Total	2.1026	7.5149	17.0064	0.0687	6.3934	0.0671	6.4606	1.7168	0.0632	1.7801		7,058.827 9	7,058.827 9	0.1457	0.5443	7,224.680 0

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1402	6.2154	1.8426	0.0263	0.9224	0.0400	0.9624	0.2656	0.0383	0.3039		2,780.516 1	2,780.516 1	9.1500e-003	0.4119	2,903.487 7
Worker	1.9624	1.2995	15.1638	0.0423	5.4710	0.0271	5.4982	1.4512	0.0250	1.4762		4,278.311 8	4,278.311 8	0.1366	0.1324	4,321.192 3
Total	2.1026	7.5149	17.0064	0.0687	6.3934	0.0671	6.4606	1.7168	0.0632	1.7801		7,058.827 9	7,058.827 9	0.1457	0.5443	7,224.680 0

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1366	6.1711	1.8052	0.0258	0.9224	0.0397	0.9621	0.2656	0.0380	0.3036		2,724.941 3	2,724.941 3	8.8500e-003	0.4031	2,845.284 6
Worker	1.8181	1.1600	14.1121	0.0410	5.4710	0.0255	5.4965	1.4512	0.0235	1.4746		4,148.165 2	4,148.165 2	0.1235	0.1239	4,188.167 4
Total	1.9547	7.3311	15.9173	0.0669	6.3934	0.0652	6.4586	1.7168	0.0614	1.7783		6,873.106 5	6,873.106 5	0.1324	0.5270	7,033.451 9

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1366	6.1711	1.8052	0.0258	0.9224	0.0397	0.9621	0.2656	0.0380	0.3036		2,724.941 3	2,724.941 3	8.8500e-003	0.4031	2,845.284 6
Worker	1.8181	1.1600	14.1121	0.0410	5.4710	0.0255	5.4965	1.4512	0.0235	1.4746		4,148.165 2	4,148.165 2	0.1235	0.1239	4,188.167 4
Total	1.9547	7.3311	15.9173	0.0669	6.3934	0.0652	6.4586	1.7168	0.0614	1.7783		6,873.106 5	6,873.106 5	0.1324	0.5270	7,033.451 9

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1338	6.1374	1.7784	0.0253	0.9224	0.0394	0.9618	0.2656	0.0377	0.3033		2,671.885 8	2,671.885 8	8.6400e- 003	0.3947	2,789.709 6
Worker	1.6849	1.0437	13.2356	0.0399	5.4710	0.0239	5.4949	1.4512	0.0220	1.4732		4,030.451 2	4,030.451 2	0.1124	0.1167	4,068.045 9
Total	1.8187	7.1811	15.0140	0.0652	6.3934	0.0633	6.4567	1.7168	0.0597	1.7765		6,702.337 0	6,702.337 0	0.1210	0.5114	6,857.755 5

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1A BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1338	6.1374	1.7784	0.0253	0.9224	0.0394	0.9618	0.2656	0.0377	0.3033		2,671.885 8	2,671.885 8	8.6400e- 003	0.3947	2,789.709 6
Worker	1.6849	1.0437	13.2356	0.0399	5.4710	0.0239	5.4949	1.4512	0.0220	1.4732		4,030.451 2	4,030.451 2	0.1124	0.1167	4,068.045 9
Total	1.8187	7.1811	15.0140	0.0652	6.3934	0.0633	6.4567	1.7168	0.0597	1.7765		6,702.337 0	6,702.337 0	0.1210	0.5114	6,857.755 5

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1A P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227
Total	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1A P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227
Total	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2028

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.3365	0.2084	2.6432	7.9600e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		804.8799	804.8799	0.0224	0.0233	812.3876
Total	0.3365	0.2084	2.6432	7.9600e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		804.8799	804.8799	0.0224	0.0233	812.3876

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2028

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.3365	0.2084	2.6432	7.9600e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		804.8799	804.8799	0.0224	0.0233	812.3876
Total	0.3365	0.2084	2.6432	7.9600e-003	1.0926	4.7700e-003	1.0973	0.2898	4.3900e-003	0.2942		804.8799	804.8799	0.0224	0.0233	812.3876

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2029

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.3118	0.1889	2.4929	7.7500e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		783.6874	783.6874	0.0205	0.0221	790.7898
Total	0.3118	0.1889	2.4929	7.7500e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		783.6874	783.6874	0.0205	0.0221	790.7898

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1A AC - 2029

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	116.3611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	116.5319	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.3118	0.1889	2.4929	7.7500e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		783.6874	783.6874	0.0205	0.0221	790.7898
Total	0.3118	0.1889	2.4929	7.7500e-003	1.0926	4.4600e-003	1.0970	0.2898	4.1000e-003	0.2939		783.6874	783.6874	0.0205	0.0221	790.7898

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
City Park	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
Convenience Market with Gas Pumps	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412
Single Family Housing	0.548667	0.047951	0.155667	0.127889	0.023708	0.006170	0.014248	0.050016	0.000854	0.000454	0.019914	0.002050	0.002412

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
NaturalGas Unmitigated	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

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					
Apartments High Rise	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
City Park	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
Convenience Market with Gas Pumps	1453.42	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Single Family Housing	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		0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Convenience Market with Gas Pumps	1.45342	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Single Family Housing	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		0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073

6.0 Area Detail

6.1 Mitigation Measures Area

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363
Unmitigated	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0818	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846		124.9446	124.9446	0.1197		127.9363
Total	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0818	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846		124.9446	124.9446	0.1197		127.9363
Total	24.6567	0.7985	69.3235	3.6600e-003		0.3846	0.3846		0.3846	0.3846	0.0000	124.9446	124.9446	0.1197	0.0000	127.9363

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1A Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1B Mitigated
Merced County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.00	Acre	8.00	348,480.00	0
Condo/Townhouse	226.00	Dwelling Unit	37.83	339,000.00	646

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2030
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data (1B)
- Construction Phase - Dates from modeling data document and project description (1B)
- Off-road Equipment - defaults
- Trips and VMT - defaults
- Grading - Acreage is the total acreage from that phase
- Architectural Coating - Sq ft per phase
- SJVAPCD VOC limit = 50 g/L
- Vehicle Trips - in operational model
- Woodstoves - defaults
- Area Coating - SJVAPCD VOC limit = 50g/L

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - 100% single family residential electricity from solar, 25% more efficient than Title 24 for multifamily housing

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 15 mph on unpaved roads, mitigated to 90% of equipment

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Residential_Exterior	228825	0
tblAreaCoating	Area_Residential_Interior	686475	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	18.00
tblConstructionPhase	NumDays	75.00	51.00
tblConstructionPhase	NumDays	740.00	515.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	55.00	35.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	NumberGas	124.30	0.00
tblFireplaces	NumberNoFireplace	101.70	0.00
tblGrading	AcresOfGrading	153.00	45.00
tblGrading	AcresOfGrading	27.00	45.00
tblLandUse	LandUseSquareFeet	226,000.00	339,000.00

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LotAcreage	14.13	37.83
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	103.96	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	14,724,809.79	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	9,283,032.26	0.00
tblWoodstoves	NumberCatalytic	37.83	0.00
tblWoodstoves	NumberNoncatalytic	37.83	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

2.0 Emissions Summary

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2026	2.9671	27.9759	26.8601	0.0646	20.8654	1.1317	21.9529	10.2562	1.0412	11.2567	0.0000	6,428.419 9	6,428.419 9	1.9469	0.2995	6,534.261 7
2027	2.3953	16.3620	24.7057	0.0636	3.0877	0.5630	3.6507	0.8315	0.5297	1.3612	0.0000	6,327.380 5	6,327.380 5	0.6579	0.2907	6,430.470 2
2028	61.9090	16.2980	24.1977	0.0627	3.0877	0.5620	3.6498	0.8315	0.5288	1.3604	0.0000	6,234.428 8	6,234.428 8	0.7407	0.2828	6,335.026 2
Maximum	61.9090	27.9759	26.8601	0.0646	20.8654	1.1317	21.9529	10.2562	1.0412	11.2567	0.0000	6,428.419 9	6,428.419 9	1.9469	0.2995	6,534.261 7

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					
2026	1.6399	6.9127	33.5012	0.0646	9.4708	0.1306	9.5571	4.6369	0.1272	4.7211	0.0000	6,428.419 9	6,428.419 9	1.9469	0.2995	6,534.261 7
2027	1.5613	6.8338	26.2007	0.0636	3.0877	0.1296	3.2173	0.8315	0.1263	0.9578	0.0000	6,327.380 5	6,327.380 5	0.6579	0.2907	6,430.470 2
2028	61.2743	6.7698	25.6927	0.0627	3.0877	0.1287	3.2164	0.8315	0.1254	0.9569	0.0000	6,234.428 8	6,234.428 8	0.7407	0.2828	6,335.026 2
Maximum	61.2743	6.9127	33.5012	0.0646	9.4708	0.1306	9.5571	4.6369	0.1272	4.7211	0.0000	6,428.419 9	6,428.419 9	1.9469	0.2995	6,534.261 7

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	4.16	66.16	-12.71	0.00	42.14	82.77	45.34	47.15	81.96	52.53	0.00	0.00	0.00	0.00	0.00	0.00

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
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
Total	7.8289	0.2144	18.5968	9.8000e-004	0.0000	0.1034	0.1034	0.0000	0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
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
Total	7.8289	0.2144	18.5968	9.8000e-004	0.0000	0.1034	0.1034	0.0000	0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1B SP	Site Preparation	7/1/2026	7/24/2026	5	18	
2	1B G	Grading	7/25/2026	10/5/2026	5	51	
3	1B BC	Building Construction	10/6/2026	9/25/2028	5	515	
4	1B P	Paving	9/26/2028	11/13/2028	5	35	
5	1B AC	Architectural Coating	11/13/2028	12/29/2028	5	35	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 686,475; Residential Outdoor: 228,825; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1B SP	Rubber Tired Dozers	3	8.00	247	0.40
1B SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1B G	Excavators	2	8.00	158	0.38
1B G	Graders	1	8.00	187	0.41
1B G	Rubber Tired Dozers	1	8.00	247	0.40
1B G	Scrapers	2	8.00	367	0.48

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1B G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1B BC	Cranes	1	7.00	231	0.29
1B BC	Forklifts	3	8.00	89	0.20
1B BC	Generator Sets	1	8.00	84	0.74
1B BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1B BC	Welders	1	8.00	46	0.45
1B P	Pavers	2	8.00	130	0.42
1B P	Paving Equipment	2	8.00	132	0.36
1B P	Rollers	2	8.00	80	0.38
1B AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1B SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B BC	9	309.00	81.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B AC	1	62.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1B SP - 2026

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					20.7175	0.0000	20.7175	10.2170	0.0000	10.2170			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	20.7175	1.0868	21.8043	10.2170	0.9999	11.2168		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0593	0.0297	0.4761	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		129.2765	129.2765	3.3300e-003	3.2000e-003	130.3129
Total	0.0593	0.0297	0.4761	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		129.2765	129.2765	3.3300e-003	3.2000e-003	130.3129

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1B SP - 2026

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					9.3229	0.0000	9.3229	4.5976	0.0000	4.5976			0.0000			0.0000
Off-Road	0.5108	2.5793	20.8150	0.0381		0.0856	0.0856		0.0835	0.0835	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.5108	2.5793	20.8150	0.0381	9.3229	0.0856	9.4085	4.5976	0.0835	4.6812	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0593	0.0297	0.4761	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		129.2765	129.2765	3.3300e-003	3.2000e-003	130.3129
Total	0.0593	0.0297	0.4761	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		129.2765	129.2765	3.3300e-003	3.2000e-003	130.3129

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1B G - 2026

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					6.9578	0.0000	6.9578	3.4113	0.0000	3.4113			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.9578	1.1309	8.0887	3.4113	1.0404	4.4517		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

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	0.0658	0.0330	0.5290	1.4200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		143.6406	143.6406	3.7000e-003	3.5500e-003	144.7922
Total	0.0658	0.0330	0.5290	1.4200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		143.6406	143.6406	3.7000e-003	3.5500e-003	144.7922

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1B G - 2026

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					3.1310	0.0000	3.1310	1.5351	0.0000	1.5351			0.0000			0.0000
Off-Road	0.7841	3.5810	32.9722	0.0621		0.1133	0.1133		0.1123	0.1123	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7841	3.5810	32.9722	0.0621	3.1310	0.1133	3.2443	1.5351	0.1123	1.6473	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0658	0.0330	0.5290	1.4200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		143.6406	143.6406	3.7000e-003	3.5500e-003	144.7922
Total	0.0658	0.0330	0.5290	1.4200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		143.6406	143.6406	3.7000e-003	3.5500e-003	144.7922

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0892	3.4619	1.0626	0.0157	0.5494	0.0238	0.5731	0.1582	0.0227	0.1809		1,652.699 1	1,652.699 1	5.7100e-003	0.2446	1,725.725 0
Worker	1.0172	0.5093	8.1733	0.0220	2.5384	0.0126	2.5510	0.6733	0.0116	0.6849		2,219.246 4	2,219.246 4	0.0572	0.0549	2,237.038 7
Total	1.1064	3.9712	9.2360	0.0376	3.0877	0.0363	3.1241	0.8315	0.0343	0.8658		3,871.945 6	3,871.945 6	0.0629	0.2995	3,962.763 6

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2026

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0892	3.4619	1.0626	0.0157	0.5494	0.0238	0.5731	0.1582	0.0227	0.1809		1,652.699 1	1,652.699 1	5.7100e- 003	0.2446	1,725.725 0
Worker	1.0172	0.5093	8.1733	0.0220	2.5384	0.0126	2.5510	0.6733	0.0116	0.6849		2,219.246 4	2,219.246 4	0.0572	0.0549	2,237.038 7
Total	1.1064	3.9712	9.2360	0.0376	3.0877	0.0363	3.1241	0.8315	0.0343	0.8658		3,871.945 6	3,871.945 6	0.0629	0.2995	3,962.763 6

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0871	3.4375	1.0404	0.0153	0.5494	0.0236	0.5729	0.1582	0.0226	0.1808		1,619.651 6	1,619.651 6	5.5300e-003	0.2394	1,691.119 4
Worker	0.9408	0.4548	7.5807	0.0213	2.5384	0.0118	2.5502	0.6733	0.0109	0.6842		2,151.254 5	2,151.254 5	0.0515	0.0514	2,167.852 7
Total	1.0279	3.8923	8.6211	0.0366	3.0877	0.0354	3.1231	0.8315	0.0334	0.8649		3,770.906 1	3,770.906 1	0.0570	0.2907	3,858.972 1

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2027

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0871	3.4375	1.0404	0.0153	0.5494	0.0236	0.5729	0.1582	0.0226	0.1808		1,619.651 6	1,619.651 6	5.5300e- 003	0.2394	1,691.119 4
Worker	0.9408	0.4548	7.5807	0.0213	2.5384	0.0118	2.5502	0.6733	0.0109	0.6842		2,151.254 5	2,151.254 5	0.0515	0.0514	2,167.852 7
Total	1.0279	3.8923	8.6211	0.0366	3.0877	0.0354	3.1231	0.8315	0.0334	0.8649		3,770.906 1	3,770.906 1	0.0570	0.2907	3,858.972 1

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0854	3.4189	1.0245	0.0151	0.5494	0.0234	0.5728	0.1582	0.0224	0.1806		1,588.105 9	1,588.105 9	5.4000e-003	0.2344	1,658.079 2
Worker	0.8708	0.4094	7.0886	0.0207	2.5384	0.0111	2.5494	0.6733	0.0102	0.6835		2,089.848 6	2,089.848 6	0.0466	0.0484	2,105.448 9
Total	0.9562	3.8283	8.1130	0.0357	3.0877	0.0345	3.1222	0.8315	0.0326	0.8641		3,677.954 5	3,677.954 5	0.0520	0.2828	3,763.528 2

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2028

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0854	3.4189	1.0245	0.0151	0.5494	0.0234	0.5728	0.1582	0.0224	0.1806		1,588.105 9	1,588.105 9	5.4000e- 003	0.2344	1,658.079 2
Worker	0.8708	0.4094	7.0886	0.0207	2.5384	0.0111	2.5494	0.6733	0.0102	0.6835		2,089.848 6	2,089.848 6	0.0466	0.0484	2,105.448 9
Total	0.9562	3.8283	8.1130	0.0357	3.0877	0.0345	3.1222	0.8315	0.0326	0.8641		3,677.954 5	3,677.954 5	0.0520	0.2828	3,763.528 2

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1B P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063
Total	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1B P - 2028

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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063
Total	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1B AC - 2028

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	60.6059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	60.7768	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.1747	0.0821	1.4223	4.1500e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		419.3224	419.3224	9.3500e-003	9.7200e-003	422.4525
Total	0.1747	0.0821	1.4223	4.1500e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		419.3224	419.3224	9.3500e-003	9.7200e-003	422.4525

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1B AC - 2028

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	60.6059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	60.7768	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.1747	0.0821	1.4223	4.1500e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		419.3224	419.3224	9.3500e-003	9.7200e-003	422.4525
Total	0.1747	0.0821	1.4223	4.1500e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		419.3224	419.3224	9.3500e-003	9.7200e-003	422.4525

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
Condo/Townhouse	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.553744	0.048044	0.155686	0.124485	0.022760	0.005987	0.014190	0.049817	0.000857	0.000453	0.019630	0.002020	0.002328
Condo/Townhouse	0.553744	0.048044	0.155686	0.124485	0.022760	0.005987	0.014190	0.049817	0.000857	0.000453	0.019630	0.002020	0.002328

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

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
City Park	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
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	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					
City Park	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
Condo/Townhouse	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

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
Unmitigated	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.2726					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5563	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5746	33.5746	0.0320		34.3743
Total	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.2726					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5563	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5746	33.5746	0.0320		34.3743
Total	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1B Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1B Mitigated
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.00	Acre	8.00	348,480.00	0
Condo/Townhouse	226.00	Dwelling Unit	37.83	339,000.00	646

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2030
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data (1B)
- Construction Phase - Dates from modeling data document and project description (1B)
- Off-road Equipment - defaults
- Trips and VMT - defaults
- Grading - Acreage is the total acreage from that phase
- Architectural Coating - Sq ft per phase
- SJVAPCD VOC limit = 50 g/L
- Vehicle Trips - in operational model
- Woodstoves - defaults
- Area Coating - SJVAPCD VOC limit = 50g/L

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - 100% single family residential electricity from solar, 25% more efficient than Title 24 for multifamily housing

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 15 mph on unpaved roads, mitigated to 90% of equipment

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Residential_Exterior	228825	0
tblAreaCoating	Area_Residential_Interior	686475	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	18.00
tblConstructionPhase	NumDays	75.00	51.00
tblConstructionPhase	NumDays	740.00	515.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	55.00	35.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	NumberGas	124.30	0.00
tblFireplaces	NumberNoFireplace	101.70	0.00
tblGrading	AcresOfGrading	153.00	45.00
tblGrading	AcresOfGrading	27.00	45.00
tblLandUse	LandUseSquareFeet	226,000.00	339,000.00

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LotAcreage	14.13	37.83
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	103.96	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	14,724,809.79	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	9,283,032.26	0.00
tblWoodstoves	NumberCatalytic	37.83	0.00
tblWoodstoves	NumberNoncatalytic	37.83	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

2.0 Emissions Summary

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2026	2.9602	27.9819	26.7865	0.0633	20.8654	1.1317	21.9529	10.2562	1.0412	11.2567	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587
2027	2.2923	16.6833	23.7073	0.0614	3.0877	0.5630	3.6508	0.8315	0.5298	1.3613	0.0000	6,104.0165	6,104.0165	0.6635	0.2976	6,209.2748
2028	61.8868	16.6093	23.2847	0.0605	3.0877	0.5621	3.6498	0.8315	0.5289	1.3604	0.0000	6,017.8022	6,017.8022	0.7421	0.2892	6,120.4430
Maximum	61.8868	27.9819	26.7865	0.0633	20.8654	1.1317	21.9529	10.2562	1.0412	11.2567	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587

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					
2026	1.5274	7.2463	33.4275	0.0633	9.4708	0.1306	9.5571	4.6369	0.1272	4.7211	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587
2027	1.4584	7.1551	25.2023	0.0614	3.0877	0.1297	3.2174	0.8315	0.1263	0.9578	0.0000	6,104.0165	6,104.0165	0.6635	0.2976	6,209.2748
2028	61.2521	7.0811	24.7797	0.0605	3.0877	0.1288	3.2165	0.8315	0.1255	0.9570	0.0000	6,017.8022	6,017.8022	0.7421	0.2892	6,120.4430
Maximum	61.2521	7.2463	33.4275	0.0633	9.4708	0.1306	9.5571	4.6369	0.1272	4.7211	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
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
Total	7.8289	0.2144	18.5968	9.8000e-004	0.0000	0.1034	0.1034	0.0000	0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
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
Total	7.8289	0.2144	18.5968	9.8000e-004	0.0000	0.1034	0.1034	0.0000	0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1B SP	Site Preparation	7/1/2026	7/24/2026	5	18	
2	1B G	Grading	7/25/2026	10/5/2026	5	51	
3	1B BC	Building Construction	10/6/2026	9/25/2028	5	515	
4	1B P	Paving	9/26/2028	11/13/2028	5	35	
5	1B AC	Architectural Coating	11/13/2028	12/29/2028	5	35	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 686,475; Residential Outdoor: 228,825; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1B SP	Rubber Tired Dozers	3	8.00	247	0.40
1B SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1B G	Excavators	2	8.00	158	0.38
1B G	Graders	1	8.00	187	0.41
1B G	Rubber Tired Dozers	1	8.00	247	0.40
1B G	Scrapers	2	8.00	367	0.48

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1B G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1B BC	Cranes	1	7.00	231	0.29
1B BC	Forklifts	3	8.00	89	0.20
1B BC	Generator Sets	1	8.00	84	0.74
1B BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1B BC	Welders	1	8.00	46	0.45
1B P	Pavers	2	8.00	130	0.42
1B P	Paving Equipment	2	8.00	132	0.36
1B P	Rollers	2	8.00	80	0.38
1B AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1B SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B BC	9	309.00	81.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B AC	1	62.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1B SP - 2026

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					20.7175	0.0000	20.7175	10.2170	0.0000	10.2170			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	20.7175	1.0868	21.8043	10.2170	0.9999	11.2168		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0530	0.0351	0.4098	1.1400e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		115.6301	115.6301	3.6900e-003	3.5800e-003	116.7890
Total	0.0530	0.0351	0.4098	1.1400e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		115.6301	115.6301	3.6900e-003	3.5800e-003	116.7890

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1B SP - 2026

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					9.3229	0.0000	9.3229	4.5976	0.0000	4.5976			0.0000			0.0000
Off-Road	0.5108	2.5793	20.8150	0.0381		0.0856	0.0856		0.0835	0.0835	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.5108	2.5793	20.8150	0.0381	9.3229	0.0856	9.4085	4.5976	0.0835	4.6812	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0530	0.0351	0.4098	1.1400e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		115.6301	115.6301	3.6900e-003	3.5800e-003	116.7890
Total	0.0530	0.0351	0.4098	1.1400e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		115.6301	115.6301	3.6900e-003	3.5800e-003	116.7890

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1B G - 2026

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					6.9578	0.0000	6.9578	3.4113	0.0000	3.4113			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.9578	1.1309	8.0887	3.4113	1.0404	4.4517		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0589	0.0390	0.4554	1.2700e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		128.4778	128.4778	4.1000e-003	3.9800e-003	129.7655
Total	0.0589	0.0390	0.4554	1.2700e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		128.4778	128.4778	4.1000e-003	3.9800e-003	129.7655

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1B G - 2026

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					3.1310	0.0000	3.1310	1.5351	0.0000	1.5351			0.0000			0.0000
Off-Road	0.7841	3.5810	32.9722	0.0621		0.1133	0.1133		0.1123	0.1123	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7841	3.5810	32.9722	0.0621	3.1310	0.1133	3.2443	1.5351	0.1123	1.6473	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0589	0.0390	0.4554	1.2700e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		128.4778	128.4778	4.1000e-003	3.9800e-003	129.7655
Total	0.0589	0.0390	0.4554	1.2700e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		128.4778	128.4778	4.1000e-003	3.9800e-003	129.7655

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0835	3.7018	1.0974	0.0157	0.5494	0.0238	0.5732	0.1582	0.0228	0.1810		1,656.042 7	1,656.042 7	5.4500e-003	0.2453	1,729.283 1
Worker	0.9105	0.6029	7.0355	0.0196	2.5384	0.0126	2.5510	0.6733	0.0116	0.6849		1,984.982 5	1,984.982 5	0.0634	0.0615	2,004.877 5
Total	0.9940	4.3048	8.1329	0.0353	3.0877	0.0364	3.1241	0.8315	0.0344	0.8659		3,641.025 2	3,641.025 2	0.0688	0.3068	3,734.160 6

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2026

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0835	3.7018	1.0974	0.0157	0.5494	0.0238	0.5732	0.1582	0.0228	0.1810		1,656.042 7	1,656.042 7	5.4500e-003	0.2453	1,729.283 1
Worker	0.9105	0.6029	7.0355	0.0196	2.5384	0.0126	2.5510	0.6733	0.0116	0.6849		1,984.982 5	1,984.982 5	0.0634	0.0615	2,004.877 5
Total	0.9940	4.3048	8.1329	0.0353	3.0877	0.0364	3.1241	0.8315	0.0344	0.8659		3,641.025 2	3,641.025 2	0.0688	0.3068	3,734.160 6

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0814	3.6754	1.0752	0.0154	0.5494	0.0236	0.5730	0.1582	0.0226	0.1808		1,622.943 0	1,622.943 0	5.2700e- 003	0.2401	1,694.618 0
Worker	0.8435	0.5382	6.5475	0.0190	2.5384	0.0118	2.5502	0.6733	0.0109	0.6842		1,924.599 2	1,924.599 2	0.0573	0.0575	1,943.158 7
Total	0.9249	4.2136	7.6227	0.0344	3.0877	0.0355	3.1232	0.8315	0.0335	0.8650		3,547.542 2	3,547.542 2	0.0626	0.2976	3,637.776 8

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2027

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0814	3.6754	1.0752	0.0154	0.5494	0.0236	0.5730	0.1582	0.0226	0.1808		1,622.943 0	1,622.943 0	5.2700e- 003	0.2401	1,694.618 0
Worker	0.8435	0.5382	6.5475	0.0190	2.5384	0.0118	2.5502	0.6733	0.0109	0.6842		1,924.599 2	1,924.599 2	0.0573	0.0575	1,943.158 7
Total	0.9249	4.2136	7.6227	0.0344	3.0877	0.0355	3.1232	0.8315	0.0335	0.8650		3,547.542 2	3,547.542 2	0.0626	0.2976	3,637.776 8

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0797	3.6554	1.0592	0.0151	0.5494	0.0235	0.5728	0.1582	0.0225	0.1807		1,591.343 8	1,591.343 8	5.1500e-003	0.2351	1,661.518 2
Worker	0.7817	0.4843	6.1409	0.0185	2.5384	0.0111	2.5494	0.6733	0.0102	0.6835		1,869.984 1	1,869.984 1	0.0521	0.0542	1,887.426 7
Total	0.8614	4.1396	7.2000	0.0336	3.0877	0.0345	3.1223	0.8315	0.0327	0.8642		3,461.327 9	3,461.327 9	0.0573	0.2892	3,548.944 9

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2028

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0797	3.6554	1.0592	0.0151	0.5494	0.0235	0.5728	0.1582	0.0225	0.1807		1,591.343 8	1,591.343 8	5.1500e- 003	0.2351	1,661.518 2
Worker	0.7817	0.4843	6.1409	0.0185	2.5384	0.0111	2.5494	0.6733	0.0102	0.6835		1,869.984 1	1,869.984 1	0.0521	0.0542	1,887.426 7
Total	0.8614	4.1396	7.2000	0.0336	3.0877	0.0345	3.1223	0.8315	0.0327	0.8642		3,461.327 9	3,461.327 9	0.0573	0.2892	3,548.944 9

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1B P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227
Total	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1B P - 2028

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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227
Total	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1B AC - 2028

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	60.6059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	60.7768	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.1569	0.0972	1.2322	3.7100e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		375.2072	375.2072	0.0105	0.0109	378.7070
Total	0.1569	0.0972	1.2322	3.7100e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		375.2072	375.2072	0.0105	0.0109	378.7070

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1B AC - 2028

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	60.6059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	60.7768	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.1569	0.0972	1.2322	3.7100e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		375.2072	375.2072	0.0105	0.0109	378.7070
Total	0.1569	0.0972	1.2322	3.7100e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		375.2072	375.2072	0.0105	0.0109	378.7070

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
Condo/Townhouse	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.553744	0.048044	0.155686	0.124485	0.022760	0.005987	0.014190	0.049817	0.000857	0.000453	0.019630	0.002020	0.002328
Condo/Townhouse	0.553744	0.048044	0.155686	0.124485	0.022760	0.005987	0.014190	0.049817	0.000857	0.000453	0.019630	0.002020	0.002328

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

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
City Park	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
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	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					
City Park	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
Condo/Townhouse	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

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
Unmitigated	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.2726					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5563	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5746	33.5746	0.0320		34.3743
Total	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.2726					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5563	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5746	33.5746	0.0320		34.3743
Total	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1B Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_1B unmitigated

Merced County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.00	Acre	8.00	348,480.00	0
Condo/Townhouse	226.00	Dwelling Unit	37.83	339,000.00	646

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2030
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data (1B)
- Construction Phase - Dates from modeling data document and project description (1B)
- Off-road Equipment - defaults
- Trips and VMT - defaults
- Grading - Acreage is the total acreage from that phase
- Architectural Coating - Sq ft per phase
- SJVAPCD VOC limit = 50 g/L
- Vehicle Trips - in operational model
- Woodstoves - defaults
- Area Coating - SJVAPCD VOC limit = 50g/L

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - 100% single family residential electricity from solar, 25% more efficient than Title 24 for multifamily housing

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 15 mph on unpaved roads, mitigated to 90% of equipment

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Residential_Exterior	228825	0
tblAreaCoating	Area_Residential_Interior	686475	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	18.00
tblConstructionPhase	NumDays	75.00	51.00
tblConstructionPhase	NumDays	740.00	515.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	55.00	35.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberGas	124.30	0.00
tblFireplaces	NumberNoFireplace	101.70	0.00
tblGrading	AcresOfGrading	153.00	45.00
tblGrading	AcresOfGrading	27.00	45.00
tblLandUse	LandUseSquareFeet	226,000.00	339,000.00
tblLandUse	LotAcreage	14.13	37.83
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	103.96	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	14,724,809.79	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	9,283,032.26	0.00
tblWoodstoves	NumberCatalytic	37.83	0.00
tblWoodstoves	NumberNoncatalytic	37.83	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

2.0 Emissions Summary

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2026	2.9671	27.9759	26.8601	0.0646	20.8654	1.1317	21.9529	10.2562	1.0412	11.2567	0.0000	6,428.419 9	6,428.419 9	1.9469	0.2995	6,534.261 7
2027	2.3953	16.3620	24.7057	0.0636	3.0877	0.5630	3.6507	0.8315	0.5297	1.3612	0.0000	6,327.380 5	6,327.380 5	0.6579	0.2907	6,430.470 2
2028	61.9090	16.2980	24.1977	0.0627	3.0877	0.5620	3.6498	0.8315	0.5288	1.3604	0.0000	6,234.428 8	6,234.428 8	0.7407	0.2828	6,335.026 2
Maximum	61.9090	27.9759	26.8601	0.0646	20.8654	1.1317	21.9529	10.2562	1.0412	11.2567	0.0000	6,428.419 9	6,428.419 9	1.9469	0.2995	6,534.261 7

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					
2026	2.9671	27.9759	26.8601	0.0646	9.4708	1.1317	10.5583	4.6369	1.0412	5.6374	0.0000	6,428.419 9	6,428.419 9	1.9469	0.2995	6,534.261 7
2027	2.3953	16.3620	24.7057	0.0636	3.0877	0.5630	3.6507	0.8315	0.5297	1.3612	0.0000	6,327.380 5	6,327.380 5	0.6579	0.2907	6,430.470 2
2028	61.9090	16.2980	24.1977	0.0627	3.0877	0.5620	3.6498	0.8315	0.5288	1.3604	0.0000	6,234.428 8	6,234.428 8	0.7407	0.2828	6,335.026 2
Maximum	61.9090	27.9759	26.8601	0.0646	9.4708	1.1317	10.5583	4.6369	1.0412	5.6374	0.0000	6,428.419 9	6,428.419 9	1.9469	0.2995	6,534.261 7

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	42.14	0.00	38.95	47.15	0.00	40.20	0.00	0.00	0.00	0.00	0.00	0.00

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
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
Total	7.8289	0.2144	18.5968	9.8000e-004	0.0000	0.1034	0.1034	0.0000	0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
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
Total	7.8289	0.2144	18.5968	9.8000e-004	0.0000	0.1034	0.1034	0.0000	0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1B SP	Site Preparation	7/1/2026	7/24/2026	5	18	
2	1B G	Grading	7/25/2026	10/5/2026	5	51	
3	1B BC	Building Construction	10/6/2026	9/25/2028	5	515	
4	1B P	Paving	9/26/2028	11/13/2028	5	35	
5	1B AC	Architectural Coating	11/13/2028	12/29/2028	5	35	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 686,475; Residential Outdoor: 228,825; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1B SP	Rubber Tired Dozers	3	8.00	247	0.40
1B SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1B G	Excavators	2	8.00	158	0.38
1B G	Graders	1	8.00	187	0.41
1B G	Rubber Tired Dozers	1	8.00	247	0.40
1B G	Scrapers	2	8.00	367	0.48

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1B G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1B BC	Cranes	1	7.00	231	0.29
1B BC	Forklifts	3	8.00	89	0.20
1B BC	Generator Sets	1	8.00	84	0.74
1B BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1B BC	Welders	1	8.00	46	0.45
1B P	Pavers	2	8.00	130	0.42
1B P	Paving Equipment	2	8.00	132	0.36
1B P	Rollers	2	8.00	80	0.38
1B AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1B SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B BC	9	309.00	81.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B AC	1	62.00	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

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1B SP - 2026

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					20.7175	0.0000	20.7175	10.2170	0.0000	10.2170			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	20.7175	1.0868	21.8043	10.2170	0.9999	11.2168		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0593	0.0297	0.4761	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		129.2765	129.2765	3.3300e-003	3.2000e-003	130.3129
Total	0.0593	0.0297	0.4761	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		129.2765	129.2765	3.3300e-003	3.2000e-003	130.3129

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1B SP - 2026

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					9.3229	0.0000	9.3229	4.5976	0.0000	4.5976			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	9.3229	1.0868	10.4097	4.5976	0.9999	5.5975	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0593	0.0297	0.4761	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		129.2765	129.2765	3.3300e-003	3.2000e-003	130.3129
Total	0.0593	0.0297	0.4761	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		129.2765	129.2765	3.3300e-003	3.2000e-003	130.3129

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1B G - 2026

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					6.9578	0.0000	6.9578	3.4113	0.0000	3.4113			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.9578	1.1309	8.0887	3.4113	1.0404	4.4517		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0658	0.0330	0.5290	1.4200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		143.6406	143.6406	3.7000e-003	3.5500e-003	144.7922
Total	0.0658	0.0330	0.5290	1.4200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		143.6406	143.6406	3.7000e-003	3.5500e-003	144.7922

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1B G - 2026

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					3.1310	0.0000	3.1310	1.5351	0.0000	1.5351			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	3.1310	1.1309	4.2619	1.5351	1.0404	2.5755	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

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	0.0658	0.0330	0.5290	1.4200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		143.6406	143.6406	3.7000e-003	3.5500e-003	144.7922
Total	0.0658	0.0330	0.5290	1.4200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		143.6406	143.6406	3.7000e-003	3.5500e-003	144.7922

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0892	3.4619	1.0626	0.0157	0.5494	0.0238	0.5731	0.1582	0.0227	0.1809		1,652.699 1	1,652.699 1	5.7100e-003	0.2446	1,725.725 0
Worker	1.0172	0.5093	8.1733	0.0220	2.5384	0.0126	2.5510	0.6733	0.0116	0.6849		2,219.246 4	2,219.246 4	0.0572	0.0549	2,237.038 7
Total	1.1064	3.9712	9.2360	0.0376	3.0877	0.0363	3.1241	0.8315	0.0343	0.8658		3,871.945 6	3,871.945 6	0.0629	0.2995	3,962.763 6

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0892	3.4619	1.0626	0.0157	0.5494	0.0238	0.5731	0.1582	0.0227	0.1809		1,652.699 1	1,652.699 1	5.7100e-003	0.2446	1,725.725 0
Worker	1.0172	0.5093	8.1733	0.0220	2.5384	0.0126	2.5510	0.6733	0.0116	0.6849		2,219.246 4	2,219.246 4	0.0572	0.0549	2,237.038 7
Total	1.1064	3.9712	9.2360	0.0376	3.0877	0.0363	3.1241	0.8315	0.0343	0.8658		3,871.945 6	3,871.945 6	0.0629	0.2995	3,962.763 6

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0871	3.4375	1.0404	0.0153	0.5494	0.0236	0.5729	0.1582	0.0226	0.1808		1,619.651 6	1,619.651 6	5.5300e-003	0.2394	1,691.119 4
Worker	0.9408	0.4548	7.5807	0.0213	2.5384	0.0118	2.5502	0.6733	0.0109	0.6842		2,151.254 5	2,151.254 5	0.0515	0.0514	2,167.852 7
Total	1.0279	3.8923	8.6211	0.0366	3.0877	0.0354	3.1231	0.8315	0.0334	0.8649		3,770.906 1	3,770.906 1	0.0570	0.2907	3,858.972 1

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0871	3.4375	1.0404	0.0153	0.5494	0.0236	0.5729	0.1582	0.0226	0.1808		1,619.651 6	1,619.651 6	5.5300e-003	0.2394	1,691.119 4
Worker	0.9408	0.4548	7.5807	0.0213	2.5384	0.0118	2.5502	0.6733	0.0109	0.6842		2,151.254 5	2,151.254 5	0.0515	0.0514	2,167.852 7
Total	1.0279	3.8923	8.6211	0.0366	3.0877	0.0354	3.1231	0.8315	0.0334	0.8649		3,770.906 1	3,770.906 1	0.0570	0.2907	3,858.972 1

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0854	3.4189	1.0245	0.0151	0.5494	0.0234	0.5728	0.1582	0.0224	0.1806		1,588.105 9	1,588.105 9	5.4000e-003	0.2344	1,658.079 2
Worker	0.8708	0.4094	7.0886	0.0207	2.5384	0.0111	2.5494	0.6733	0.0102	0.6835		2,089.848 6	2,089.848 6	0.0466	0.0484	2,105.448 9
Total	0.9562	3.8283	8.1130	0.0357	3.0877	0.0345	3.1222	0.8315	0.0326	0.8641		3,677.954 5	3,677.954 5	0.0520	0.2828	3,763.528 2

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0854	3.4189	1.0245	0.0151	0.5494	0.0234	0.5728	0.1582	0.0224	0.1806		1,588.105 9	1,588.105 9	5.4000e- 003	0.2344	1,658.079 2
Worker	0.8708	0.4094	7.0886	0.0207	2.5384	0.0111	2.5494	0.6733	0.0102	0.6835		2,089.848 6	2,089.848 6	0.0466	0.0484	2,105.448 9
Total	0.9562	3.8283	8.1130	0.0357	3.0877	0.0345	3.1222	0.8315	0.0326	0.8641		3,677.954 5	3,677.954 5	0.0520	0.2828	3,763.528 2

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1B P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063
Total	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1B P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063
Total	0.0423	0.0199	0.3441	1.0000e-003	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.4490	101.4490	2.2600e-003	2.3500e-003	102.2063

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1B AC - 2028

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	60.6059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	60.7768	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.1747	0.0821	1.4223	4.1500e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		419.3224	419.3224	9.3500e-003	9.7200e-003	422.4525
Total	0.1747	0.0821	1.4223	4.1500e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		419.3224	419.3224	9.3500e-003	9.7200e-003	422.4525

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1B AC - 2028

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	60.6059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	60.7768	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.1747	0.0821	1.4223	4.1500e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		419.3224	419.3224	9.3500e-003	9.7200e-003	422.4525
Total	0.1747	0.0821	1.4223	4.1500e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		419.3224	419.3224	9.3500e-003	9.7200e-003	422.4525

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
Condo/Townhouse	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.553744	0.048044	0.155686	0.124485	0.022760	0.005987	0.014190	0.049817	0.000857	0.000453	0.019630	0.002020	0.002328
Condo/Townhouse	0.553744	0.048044	0.155686	0.124485	0.022760	0.005987	0.014190	0.049817	0.000857	0.000453	0.019630	0.002020	0.002328

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

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
City Park	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
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	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					
City Park	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
Condo/Townhouse	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

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
Unmitigated	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.2726					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5563	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5746	33.5746	0.0320		34.3743
Total	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.2726					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5563	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5746	33.5746	0.0320		34.3743
Total	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1B unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1B unmitigated
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.00	Acre	8.00	348,480.00	0
Condo/Townhouse	226.00	Dwelling Unit	37.83	339,000.00	646

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2030
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data (1B)
- Construction Phase - Dates from modeling data document and project description (1B)
- Off-road Equipment - defaults
- Trips and VMT - defaults
- Grading - Acreage is the total acreage from that phase
- Architectural Coating - Sq ft per phase
- SJVAPCD VOC limit = 50 g/L
- Vehicle Trips - in operational model
- Woodstoves - defaults
- Area Coating - SJVAPCD VOC limit = 50g/L

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - 100% single family residential electricity from solar, 25% more efficient than Title 24 for multifamily housing

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 15 mph on unpaved roads, mitigated to 90% of equipment

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Residential_Exterior	228825	0
tblAreaCoating	Area_Residential_Interior	686475	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	18.00
tblConstructionPhase	NumDays	75.00	51.00
tblConstructionPhase	NumDays	740.00	515.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	55.00	35.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberGas	124.30	0.00
tblFireplaces	NumberNoFireplace	101.70	0.00
tblGrading	AcresOfGrading	153.00	45.00
tblGrading	AcresOfGrading	27.00	45.00
tblLandUse	LandUseSquareFeet	226,000.00	339,000.00
tblLandUse	LotAcreage	14.13	37.83
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	103.96	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	14,724,809.79	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	9,283,032.26	0.00
tblWoodstoves	NumberCatalytic	37.83	0.00
tblWoodstoves	NumberNoncatalytic	37.83	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

2.0 Emissions Summary

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2026	2.9602	27.9819	26.7865	0.0633	20.8654	1.1317	21.9529	10.2562	1.0412	11.2567	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587
2027	2.2923	16.6833	23.7073	0.0614	3.0877	0.5630	3.6508	0.8315	0.5298	1.3613	0.0000	6,104.0165	6,104.0165	0.6635	0.2976	6,209.2748
2028	61.8868	16.6093	23.2847	0.0605	3.0877	0.5621	3.6498	0.8315	0.5289	1.3604	0.0000	6,017.8022	6,017.8022	0.7421	0.2892	6,120.4430
Maximum	61.8868	27.9819	26.7865	0.0633	20.8654	1.1317	21.9529	10.2562	1.0412	11.2567	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587

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					
2026	2.9602	27.9819	26.7865	0.0633	9.4708	1.1317	10.5583	4.6369	1.0412	5.6374	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587
2027	2.2923	16.6833	23.7073	0.0614	3.0877	0.5630	3.6508	0.8315	0.5298	1.3613	0.0000	6,104.0165	6,104.0165	0.6635	0.2976	6,209.2748
2028	61.8868	16.6093	23.2847	0.0605	3.0877	0.5621	3.6498	0.8315	0.5289	1.3604	0.0000	6,017.8022	6,017.8022	0.7421	0.2892	6,120.4430
Maximum	61.8868	27.9819	26.7865	0.0633	9.4708	1.1317	10.5583	4.6369	1.0412	5.6374	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	42.14	0.00	38.95	47.15	0.00	40.20	0.00	0.00	0.00	0.00	0.00	0.00

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
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
Total	7.8289	0.2144	18.5968	9.8000e-004	0.0000	0.1034	0.1034	0.0000	0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
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
Total	7.8289	0.2144	18.5968	9.8000e-004	0.0000	0.1034	0.1034	0.0000	0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1B SP	Site Preparation	7/1/2026	7/24/2026	5	18	
2	1B G	Grading	7/25/2026	10/5/2026	5	51	
3	1B BC	Building Construction	10/6/2026	9/25/2028	5	515	
4	1B P	Paving	9/26/2028	11/13/2028	5	35	
5	1B AC	Architectural Coating	11/13/2028	12/29/2028	5	35	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 686,475; Residential Outdoor: 228,825; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1B SP	Rubber Tired Dozers	3	8.00	247	0.40
1B SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1B G	Excavators	2	8.00	158	0.38
1B G	Graders	1	8.00	187	0.41
1B G	Rubber Tired Dozers	1	8.00	247	0.40
1B G	Scrapers	2	8.00	367	0.48

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1B G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1B BC	Cranes	1	7.00	231	0.29
1B BC	Forklifts	3	8.00	89	0.20
1B BC	Generator Sets	1	8.00	84	0.74
1B BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1B BC	Welders	1	8.00	46	0.45
1B P	Pavers	2	8.00	130	0.42
1B P	Paving Equipment	2	8.00	132	0.36
1B P	Rollers	2	8.00	80	0.38
1B AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1B SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B BC	9	309.00	81.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1B AC	1	62.00	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

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1B SP - 2026

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					20.7175	0.0000	20.7175	10.2170	0.0000	10.2170			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	20.7175	1.0868	21.8043	10.2170	0.9999	11.2168		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0530	0.0351	0.4098	1.1400e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		115.6301	115.6301	3.6900e-003	3.5800e-003	116.7890
Total	0.0530	0.0351	0.4098	1.1400e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		115.6301	115.6301	3.6900e-003	3.5800e-003	116.7890

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1B SP - 2026

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					9.3229	0.0000	9.3229	4.5976	0.0000	4.5976			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	9.3229	1.0868	10.4097	4.5976	0.9999	5.5975	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0530	0.0351	0.4098	1.1400e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		115.6301	115.6301	3.6900e-003	3.5800e-003	116.7890
Total	0.0530	0.0351	0.4098	1.1400e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		115.6301	115.6301	3.6900e-003	3.5800e-003	116.7890

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1B G - 2026

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					6.9578	0.0000	6.9578	3.4113	0.0000	3.4113			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.9578	1.1309	8.0887	3.4113	1.0404	4.4517		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

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	0.0589	0.0390	0.4554	1.2700e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		128.4778	128.4778	4.1000e-003	3.9800e-003	129.7655
Total	0.0589	0.0390	0.4554	1.2700e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		128.4778	128.4778	4.1000e-003	3.9800e-003	129.7655

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1B G - 2026

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					3.1310	0.0000	3.1310	1.5351	0.0000	1.5351			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.1310	1.1309	4.2619	1.5351	1.0404	2.5755	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0589	0.0390	0.4554	1.2700e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		128.4778	128.4778	4.1000e-003	3.9800e-003	129.7655
Total	0.0589	0.0390	0.4554	1.2700e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		128.4778	128.4778	4.1000e-003	3.9800e-003	129.7655

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0835	3.7018	1.0974	0.0157	0.5494	0.0238	0.5732	0.1582	0.0228	0.1810		1,656.042 7	1,656.042 7	5.4500e-003	0.2453	1,729.283 1
Worker	0.9105	0.6029	7.0355	0.0196	2.5384	0.0126	2.5510	0.6733	0.0116	0.6849		1,984.982 5	1,984.982 5	0.0634	0.0615	2,004.877 5
Total	0.9940	4.3048	8.1329	0.0353	3.0877	0.0364	3.1241	0.8315	0.0344	0.8659		3,641.025 2	3,641.025 2	0.0688	0.3068	3,734.160 6

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0835	3.7018	1.0974	0.0157	0.5494	0.0238	0.5732	0.1582	0.0228	0.1810		1,656.042 7	1,656.042 7	5.4500e-003	0.2453	1,729.283 1
Worker	0.9105	0.6029	7.0355	0.0196	2.5384	0.0126	2.5510	0.6733	0.0116	0.6849		1,984.982 5	1,984.982 5	0.0634	0.0615	2,004.877 5
Total	0.9940	4.3048	8.1329	0.0353	3.0877	0.0364	3.1241	0.8315	0.0344	0.8659		3,641.025 2	3,641.025 2	0.0688	0.3068	3,734.160 6

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0814	3.6754	1.0752	0.0154	0.5494	0.0236	0.5730	0.1582	0.0226	0.1808		1,622.943 0	1,622.943 0	5.2700e- 003	0.2401	1,694.618 0
Worker	0.8435	0.5382	6.5475	0.0190	2.5384	0.0118	2.5502	0.6733	0.0109	0.6842		1,924.599 2	1,924.599 2	0.0573	0.0575	1,943.158 7
Total	0.9249	4.2136	7.6227	0.0344	3.0877	0.0355	3.1232	0.8315	0.0335	0.8650		3,547.542 2	3,547.542 2	0.0626	0.2976	3,637.776 8

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0814	3.6754	1.0752	0.0154	0.5494	0.0236	0.5730	0.1582	0.0226	0.1808		1,622.943 0	1,622.943 0	5.2700e- 003	0.2401	1,694.618 0
Worker	0.8435	0.5382	6.5475	0.0190	2.5384	0.0118	2.5502	0.6733	0.0109	0.6842		1,924.599 2	1,924.599 2	0.0573	0.0575	1,943.158 7
Total	0.9249	4.2136	7.6227	0.0344	3.0877	0.0355	3.1232	0.8315	0.0335	0.8650		3,547.542 2	3,547.542 2	0.0626	0.2976	3,637.776 8

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0797	3.6554	1.0592	0.0151	0.5494	0.0235	0.5728	0.1582	0.0225	0.1807		1,591.343 8	1,591.343 8	5.1500e- 003	0.2351	1,661.518 2
Worker	0.7817	0.4843	6.1409	0.0185	2.5384	0.0111	2.5494	0.6733	0.0102	0.6835		1,869.984 1	1,869.984 1	0.0521	0.0542	1,887.426 7
Total	0.8614	4.1396	7.2000	0.0336	3.0877	0.0345	3.1223	0.8315	0.0327	0.8642		3,461.327 9	3,461.327 9	0.0573	0.2892	3,548.944 9

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1B BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0797	3.6554	1.0592	0.0151	0.5494	0.0235	0.5728	0.1582	0.0225	0.1807		1,591.343 8	1,591.343 8	5.1500e- 003	0.2351	1,661.518 2
Worker	0.7817	0.4843	6.1409	0.0185	2.5384	0.0111	2.5494	0.6733	0.0102	0.6835		1,869.984 1	1,869.984 1	0.0521	0.0542	1,887.426 7
Total	0.8614	4.1396	7.2000	0.0336	3.0877	0.0345	3.1223	0.8315	0.0327	0.8642		3,461.327 9	3,461.327 9	0.0573	0.2892	3,548.944 9

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1B P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227
Total	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1B P - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227
Total	0.0380	0.0235	0.2981	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		90.7759	90.7759	2.5300e-003	2.6300e-003	91.6227

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1B AC - 2028

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	60.6059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	60.7768	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.1569	0.0972	1.2322	3.7100e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		375.2072	375.2072	0.0105	0.0109	378.7070
Total	0.1569	0.0972	1.2322	3.7100e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		375.2072	375.2072	0.0105	0.0109	378.7070

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1B AC - 2028

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	60.6059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	60.7768	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.1569	0.0972	1.2322	3.7100e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		375.2072	375.2072	0.0105	0.0109	378.7070
Total	0.1569	0.0972	1.2322	3.7100e-003	0.5093	2.2200e-003	0.5115	0.1351	2.0500e-003	0.1371		375.2072	375.2072	0.0105	0.0109	378.7070

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
Condo/Townhouse	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.553744	0.048044	0.155686	0.124485	0.022760	0.005987	0.014190	0.049817	0.000857	0.000453	0.019630	0.002020	0.002328
Condo/Townhouse	0.553744	0.048044	0.155686	0.124485	0.022760	0.005987	0.014190	0.049817	0.000857	0.000453	0.019630	0.002020	0.002328

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

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
City Park	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
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	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					
City Park	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
Condo/Townhouse	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

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743
Unmitigated	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.2726					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5563	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5746	33.5746	0.0320		34.3743
Total	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.2726					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5563	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5746	33.5746	0.0320		34.3743
Total	7.8289	0.2144	18.5968	9.8000e-004		0.1034	0.1034		0.1034	0.1034	0.0000	33.5746	33.5746	0.0320	0.0000	34.3743

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1B unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1C mitigated
Merced County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	275.00	1000sqft	12.60	550,000.00	0
Junior High School	300.00	Student	0.81	35,268.51	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments High Rise	456.00	Dwelling Unit	16.24	707,499.00	1304
Apartments High Rise	108.00	Dwelling Unit	3.00	130,680.00	309
Condo/Townhouse	364.00	Dwelling Unit	22.75	436,800.00	1041
Single Family Housing	64.00	Dwelling Unit	7.33	76,800.00	183

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2032
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (1C)

Construction Phase - Dates from modeling data document and project description (1C)

Off-road Equipment - defaults

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - 100% single family residential electricity from solar, 25% more efficient than title 24 standards for multifamily

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - tier 4 engines and 15 mph limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	292634	0
tblAreaCoating	Area_Nonresidential_Interior	877903	0
tblAreaCoating	Area_Residential_Exterior	912451	0
tblAreaCoating	Area_Residential_Interior	2737352	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	40.00	37.00
tblConstructionPhase	NumDays	110.00	102.00
tblConstructionPhase	NumDays	1,110.00	1,027.00
tblConstructionPhase	NumDays	75.00	69.00
tblConstructionPhase	NumDays	75.00	69.00

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	3.59	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	1.89	0.00
tblEnergyUse	NT24E	4.49	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	1.92	0.00
tblEnergyUse	NT24NG	0.82	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.92	0.00
tblEnergyUse	T24E	3.19	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	22.96	0.00
tblEnergyUse	T24NG	21.74	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	310.20	0.00
tblFireplaces	NumberGas	200.20	0.00
tblFireplaces	NumberGas	35.20	0.00
tblFireplaces	NumberNoFireplace	253.80	0.00

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberNoFireplace	163.80	0.00
tblFireplaces	NumberNoFireplace	28.80	0.00
tblGrading	AcresOfGrading	306.00	60.00
tblGrading	AcresOfGrading	55.50	60.00
tblLandUse	LandUseSquareFeet	275,000.00	550,000.00
tblLandUse	LandUseSquareFeet	456,000.00	707,499.00
tblLandUse	LandUseSquareFeet	108,000.00	130,680.00
tblLandUse	LandUseSquareFeet	364,000.00	436,800.00
tblLandUse	LandUseSquareFeet	115,200.00	76,800.00
tblLandUse	LotAcreage	6.31	12.60
tblLandUse	LotAcreage	7.35	16.24
tblLandUse	LotAcreage	1.74	3.00
tblLandUse	LotAcreage	20.78	7.33
tblSolidWaste	SolidWasteGenerationRate	259.44	0.00
tblSolidWaste	SolidWasteGenerationRate	0.50	0.00
tblSolidWaste	SolidWasteGenerationRate	167.44	0.00
tblSolidWaste	SolidWasteGenerationRate	54.75	0.00
tblSolidWaste	SolidWasteGenerationRate	255.75	0.00
tblSolidWaste	SolidWasteGenerationRate	65.88	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	8.55	0.00

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	2.13	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	36,746,870.45	0.00
tblWater	IndoorWaterUseRate	23,716,065.33	0.00
tblWater	IndoorWaterUseRate	727,272.00	0.00
tblWater	IndoorWaterUseRate	48,876,780.70	0.00
tblWater	IndoorWaterUseRate	4,169,857.64	0.00
tblWater	OutdoorWaterUseRate	23,166,505.28	0.00
tblWater	OutdoorWaterUseRate	6,910,591.83	0.00
tblWater	OutdoorWaterUseRate	14,951,432.49	0.00
tblWater	OutdoorWaterUseRate	1,870,128.00	0.00
tblWater	OutdoorWaterUseRate	29,956,736.56	0.00
tblWater	OutdoorWaterUseRate	2,628,823.29	0.00
tblWoodstoves	NumberCatalytic	19.24	0.00
tblWoodstoves	NumberCatalytic	22.75	0.00
tblWoodstoves	NumberCatalytic	7.33	0.00
tblWoodstoves	NumberNoncatalytic	19.24	0.00
tblWoodstoves	NumberNoncatalytic	22.75	0.00
tblWoodstoves	NumberNoncatalytic	7.33	0.00

2.0 Emissions Summary

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2027	4.6367	27.9723	43.4444	0.1410	19.9339	1.1317	21.0213	10.1556	1.0411	11.1561	0.0000	14,293.87 40	14,293.87 40	1.9465	0.8824	14,576.37 23
2028	4.4080	24.0353	41.8232	0.1382	9.7643	0.6332	10.3975	2.6274	0.5960	3.2235	0.0000	14,002.89 69	14,002.89 69	0.7662	0.8580	14,277.72 13
2029	4.1960	23.8513	40.4432	0.1356	9.7643	0.6303	10.3946	2.6274	0.5934	3.2208	0.0000	13,734.80 09	13,734.80 09	0.7524	0.8356	14,002.61 75
2030	3.9384	19.1672	39.3512	0.1372	9.7643	0.2483	10.0126	2.6274	0.2428	2.8703	0.0000	13,834.73 38	13,834.73 38	0.2557	0.8159	14,084.25 03
2031	162.4707	19.0485	38.3490	0.1352	9.7643	0.3311	10.0103	2.6274	0.3310	2.8681	0.0000	13,620.03 25	13,620.03 25	0.2452	0.7988	13,864.20 38
Maximum	162.4707	27.9723	43.4444	0.1410	19.9339	1.1317	21.0213	10.1556	1.0411	11.1561	0.0000	14,293.87 40	14,293.87 40	1.9465	0.8824	14,576.37 23

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
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
Total	43.9127	0.9415	81.6840	4.3300e-003	0.0000	0.4541	0.4541	0.0000	0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

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	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
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
Total	43.9127	0.9415	81.6840	4.3300e-003	0.0000	0.4541	0.4541	0.0000	0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1C SP	Site Preparation	1/1/2027	2/22/2027	5	37	
2	1C G	Grading	2/23/2027	7/14/2027	5	102	
3	1C BC	Building Construction	7/15/2027	6/20/2031	5	1027	
4	1C P	Paving	6/21/2031	9/25/2031	5	69	
5	1C AC	Architectural Coating	9/26/2031	12/31/2031	5	69	

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 60

Acres of Paving: 0

Residential Indoor: 2,737,352; Residential Outdoor: 912,451; Non-Residential Indoor: 877,903; Non-Residential Outdoor: 292,634; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1C SP	Rubber Tired Dozers	3	8.00	247	0.40
1C SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1C G	Excavators	2	8.00	158	0.38
1C G	Graders	1	8.00	187	0.41
1C G	Rubber Tired Dozers	1	8.00	247	0.40
1C G	Scrapers	2	8.00	367	0.48

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1C G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1C BC	Cranes	1	7.00	231	0.29
1C BC	Forklifts	3	8.00	89	0.20
1C BC	Generator Sets	1	8.00	84	0.74
1C BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1C BC	Welders	1	8.00	46	0.45
1C P	Pavers	2	8.00	130	0.42
1C P	Paving Equipment	2	8.00	132	0.36
1C P	Rollers	2	8.00	80	0.38
1C AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1C SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C BC	9	988.00	243.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C AC	1	198.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1C SP - 2027

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					19.7860	0.0000	19.7860	10.1164	0.0000	10.1164			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.7860	1.0868	20.8728	10.1164	0.9999	11.1162		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827
Total	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1C SP - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9037	0.0000	8.9037	4.5524	0.0000	4.5524			0.0000			0.0000
Off-Road	0.5108	2.5793	20.8150	0.0381		0.0856	0.0856		0.0835	0.0835	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.5108	2.5793	20.8150	0.0381	8.9037	0.0856	8.9893	4.5524	0.0835	4.6359	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827
Total	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1C G - 2027

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					6.6459	0.0000	6.6459	3.3776	0.0000	3.3776			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.6459	1.1309	7.7768	3.3776	1.0404	4.4180		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

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	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141
Total	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1C G - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9907	0.0000	2.9907	1.5199	0.0000	1.5199			0.0000			0.0000
Off-Road	0.7841	3.5810	32.9722	0.0621		0.1133	0.1133		0.1123	0.1123	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7841	3.5810	32.9722	0.0621	2.9907	0.1133	3.1040	1.5199	0.1123	1.6322	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141
Total	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2613	10.3125	3.1211	0.0460	1.6481	0.0707	1.7188	0.4746	0.0676	0.5423		4,858.954 7	4,858.954 7	0.0166	0.7181	5,073.358 3
Worker	3.0080	1.4541	24.2387	0.0681	8.1162	0.0378	8.1540	2.1528	0.0348	2.1876		6,878.444 9	6,878.444 9	0.1645	0.1643	6,931.515 9
Total	3.2693	11.7666	27.3598	0.1141	9.7643	0.1086	9.8729	2.6274	0.1025	2.7299		11,737.39 97	11,737.39 97	0.1811	0.8824	12,004.87 42

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2027

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2613	10.3125	3.1211	0.0460	1.6481	0.0707	1.7188	0.4746	0.0676	0.5423		4,858.954 7	4,858.954 7	0.0166	0.7181	5,073.358 3
Worker	3.0080	1.4541	24.2387	0.0681	8.1162	0.0378	8.1540	2.1528	0.0348	2.1876		6,878.444 9	6,878.444 9	0.1645	0.1643	6,931.515 9
Total	3.2693	11.7666	27.3598	0.1141	9.7643	0.1086	9.8729	2.6274	0.1025	2.7299		11,737.39 97	11,737.39 97	0.1811	0.8824	12,004.87 42

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2562	10.2567	3.0735	0.0451	1.6481	0.0702	1.7183	0.4746	0.0672	0.5418		4,764.317 7	4,764.317 7	0.0162	0.7031	4,974.237 7
Worker	2.7844	1.3089	22.6651	0.0661	8.1162	0.0354	8.1516	2.1528	0.0326	2.1854		6,682.104 8	6,682.104 8	0.1490	0.1549	6,731.985 5
Total	3.0406	11.5656	25.7385	0.1113	9.7643	0.1056	9.8699	2.6274	0.0998	2.7272		11,446.42 25	11,446.42 25	0.1652	0.8580	11,706.22 33

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2028

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2562	10.2567	3.0735	0.0451	1.6481	0.0702	1.7183	0.4746	0.0672	0.5418		4,764.317 7	4,764.317 7	0.0162	0.7031	4,974.237 7
Worker	2.7844	1.3089	22.6651	0.0661	8.1162	0.0354	8.1516	2.1528	0.0326	2.1854		6,682.104 8	6,682.104 8	0.1490	0.1549	6,731.985 5
Total	3.0406	11.5656	25.7385	0.1113	9.7643	0.1056	9.8699	2.6274	0.0998	2.7272		11,446.42 25	11,446.42 25	0.1652	0.8580	11,706.22 33

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2519	10.1950	3.0348	0.0443	1.6481	0.0696	1.7178	0.4746	0.0666	0.5413		4,672.933 4	4,672.933 4	0.0159	0.6886	4,878.532 8
Worker	2.5767	1.1867	21.3237	0.0644	8.1162	0.0331	8.1493	2.1528	0.0305	2.1833		6,505.393 2	6,505.393 2	0.1355	0.1470	6,552.586 6
Total	2.8286	11.3817	24.3585	0.1086	9.7643	0.1028	9.8671	2.6274	0.0971	2.7245		11,178.32 65	11,178.32 65	0.1514	0.8356	11,431.11 94

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2029

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2519	10.1950	3.0348	0.0443	1.6481	0.0696	1.7178	0.4746	0.0666	0.5413		4,672.933 4	4,672.933 4	0.0159	0.6886	4,878.532 8
Worker	2.5767	1.1867	21.3237	0.0644	8.1162	0.0331	8.1493	2.1528	0.0305	2.1833		6,505.393 2	6,505.393 2	0.1355	0.1470	6,552.586 6
Total	2.8286	11.3817	24.3585	0.1086	9.7643	0.1028	9.8671	2.6274	0.0971	2.7245		11,178.32 65	11,178.32 65	0.1514	0.8356	11,431.11 94

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2484	10.1498	3.0024	0.0435	1.6481	0.0692	1.7173	0.4747	0.0662	0.5409		4,590.1530	4,590.1530	0.0157	0.6755	4,791.8398
Worker	2.3809	1.0828	20.1918	0.0628	8.1162	0.0310	8.1471	2.1528	0.0285	2.1813		6,347.0341	6,347.0341	0.1238	0.1404	6,391.9576
Total	2.6292	11.2325	23.1942	0.1063	9.7643	0.1002	9.8645	2.6274	0.0947	2.7221		10,937.1871	10,937.1871	0.1395	0.8159	11,183.7974

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2030

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2484	10.1498	3.0024	0.0435	1.6481	0.0692	1.7173	0.4747	0.0662	0.5409		4,590.1530	4,590.1530	0.0157	0.6755	4,791.8398
Worker	2.3809	1.0828	20.1918	0.0628	8.1162	0.0310	8.1471	2.1528	0.0285	2.1813		6,347.0341	6,347.0341	0.1238	0.1404	6,391.9576
Total	2.6292	11.2325	23.1942	0.1063	9.7643	0.1002	9.8645	2.6274	0.0947	2.7221		10,937.1871	10,937.1871	0.1395	0.8159	11,183.7974

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2452	10.1209	2.9786	0.0428	1.6481	0.0689	1.7170	0.4747	0.0659	0.5405		4,516.9420	4,516.9420	0.0155	0.6641	4,715.2192
Worker	2.1925	0.9930	19.2134	0.0614	8.1162	0.0289	8.1451	2.1528	0.0266	2.1794		6,205.5437	6,205.5437	0.1135	0.1347	6,248.5317
Total	2.4377	11.1139	22.1920	0.1042	9.7643	0.0978	9.8621	2.6274	0.0925	2.7200		10,722.4858	10,722.4858	0.1290	0.7988	10,963.7509

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2031

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2452	10.1209	2.9786	0.0428	1.6481	0.0689	1.7170	0.4747	0.0659	0.5405		4,516.9420	4,516.9420	0.0155	0.6641	4,715.2192
Worker	2.1925	0.9930	19.2134	0.0614	8.1162	0.0289	8.1451	2.1528	0.0266	2.1794		6,205.5437	6,205.5437	0.1135	0.1347	6,248.5317
Total	2.4377	11.1139	22.1920	0.1042	9.7643	0.0978	9.8621	2.6274	0.0925	2.7200		10,722.4858	10,722.4858	0.1290	0.7988	10,963.7509

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1C P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664
Total	0.0333	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1C P - 2031

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	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664
Total	0.0333	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1C AC - 2031

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	161.9006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	162.0313	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.4394	0.1990	3.8505	0.0123	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,243.6211	1,243.6211	0.0228	0.0270	1,252.2361
Total	0.4394	0.1990	3.8505	0.0123	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,243.6211	1,243.6211	0.0228	0.0270	1,252.2361

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1C AC - 2031

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	161.9006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	162.0313	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.4394	0.1990	3.8505	0.0123	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,243.6211	1,243.6211	0.0228	0.0270	1,252.2361
Total	0.4394	0.1990	3.8505	0.0123	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,243.6211	1,243.6211	0.0228	0.0270	1,252.2361

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Junior High School	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00	63	25	12
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
City Park	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Condo/Townhouse	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Junior High School	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Office Park	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Single Family Housing	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Junior High School	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
Office Park	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
Single Family Housing	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

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Junior High School	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
Office Park	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
Single Family Housing	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

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
Unmitigated	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.4658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4469	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541		147.4910	147.4910	0.1407		151.0092
Total	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.4658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4469	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541		147.4910	147.4910	0.1407		151.0092
Total	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1C mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

Boilers

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

Equipment Type	Number
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11.0 Vegetation

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1C mitigated
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	275.00	1000sqft	12.60	550,000.00	0
Junior High School	300.00	Student	0.81	35,268.51	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments High Rise	456.00	Dwelling Unit	16.24	707,499.00	1304
Apartments High Rise	108.00	Dwelling Unit	3.00	130,680.00	309
Condo/Townhouse	364.00	Dwelling Unit	22.75	436,800.00	1041
Single Family Housing	64.00	Dwelling Unit	7.33	76,800.00	183

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2032
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (1C)

Construction Phase - Dates from modeling data document and project description (1C)

Off-road Equipment - defaults

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - 100% single family residential electricity from solar, 25% more efficient than title 24 standards for multifamily

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - tier 4 engines and 15 mph limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	292634	0
tblAreaCoating	Area_Nonresidential_Interior	877903	0
tblAreaCoating	Area_Residential_Exterior	912451	0
tblAreaCoating	Area_Residential_Interior	2737352	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	40.00	37.00
tblConstructionPhase	NumDays	110.00	102.00
tblConstructionPhase	NumDays	1,110.00	1,027.00
tblConstructionPhase	NumDays	75.00	69.00
tblConstructionPhase	NumDays	75.00	69.00

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	3.59	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	1.89	0.00
tblEnergyUse	NT24E	4.49	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	1.92	0.00
tblEnergyUse	NT24NG	0.82	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.92	0.00
tblEnergyUse	T24E	3.19	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	22.96	0.00
tblEnergyUse	T24NG	21.74	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	310.20	0.00
tblFireplaces	NumberGas	200.20	0.00
tblFireplaces	NumberGas	35.20	0.00
tblFireplaces	NumberNoFireplace	253.80	0.00

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberNoFireplace	163.80	0.00
tblFireplaces	NumberNoFireplace	28.80	0.00
tblGrading	AcresOfGrading	306.00	60.00
tblGrading	AcresOfGrading	55.50	60.00
tblLandUse	LandUseSquareFeet	275,000.00	550,000.00
tblLandUse	LandUseSquareFeet	456,000.00	707,499.00
tblLandUse	LandUseSquareFeet	108,000.00	130,680.00
tblLandUse	LandUseSquareFeet	364,000.00	436,800.00
tblLandUse	LandUseSquareFeet	115,200.00	76,800.00
tblLandUse	LotAcreage	6.31	12.60
tblLandUse	LotAcreage	7.35	16.24
tblLandUse	LotAcreage	1.74	3.00
tblLandUse	LotAcreage	20.78	7.33
tblSolidWaste	SolidWasteGenerationRate	259.44	0.00
tblSolidWaste	SolidWasteGenerationRate	0.50	0.00
tblSolidWaste	SolidWasteGenerationRate	167.44	0.00
tblSolidWaste	SolidWasteGenerationRate	54.75	0.00
tblSolidWaste	SolidWasteGenerationRate	255.75	0.00
tblSolidWaste	SolidWasteGenerationRate	65.88	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	8.55	0.00

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	2.13	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	36,746,870.45	0.00
tblWater	IndoorWaterUseRate	23,716,065.33	0.00
tblWater	IndoorWaterUseRate	727,272.00	0.00
tblWater	IndoorWaterUseRate	48,876,780.70	0.00
tblWater	IndoorWaterUseRate	4,169,857.64	0.00
tblWater	OutdoorWaterUseRate	23,166,505.28	0.00
tblWater	OutdoorWaterUseRate	6,910,591.83	0.00
tblWater	OutdoorWaterUseRate	14,951,432.49	0.00
tblWater	OutdoorWaterUseRate	1,870,128.00	0.00
tblWater	OutdoorWaterUseRate	29,956,736.56	0.00
tblWater	OutdoorWaterUseRate	2,628,823.29	0.00
tblWoodstoves	NumberCatalytic	19.24	0.00
tblWoodstoves	NumberCatalytic	22.75	0.00
tblWoodstoves	NumberCatalytic	7.33	0.00
tblWoodstoves	NumberNoncatalytic	19.24	0.00
tblWoodstoves	NumberNoncatalytic	22.75	0.00
tblWoodstoves	NumberNoncatalytic	7.33	0.00

2.0 Emissions Summary

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2027	4.3086	27.9777	40.2452	0.1340	19.9339	1.1317	21.0213	10.1556	1.0411	11.1561	0.0000	13,579.03 79	13,579.03 79	1.9469	0.9040	13,868.42 92
2028	4.1060	24.9841	38.8971	0.1313	9.7643	0.6334	10.3977	2.6274	0.5962	3.2236	0.0000	13,309.61 34	13,309.61 34	0.7831	0.8783	13,590.93 17
2029	3.9183	24.7724	37.7419	0.1289	9.7643	0.6305	10.3948	2.6274	0.5935	3.2210	0.0000	13,060.63 49	13,060.63 49	0.7684	0.8549	13,334.60 65
2030	3.6839	20.0651	36.8383	0.1307	9.7643	0.2485	10.0128	2.6274	0.2430	2.8704	0.0000	13,177.48 52	13,177.48 52	0.2708	0.8343	13,432.86 83
2031	162.4275	19.9271	35.9950	0.1288	9.7643	0.3311	10.0105	2.6274	0.3310	2.8683	0.0000	12,977.73 11	12,977.73 11	0.2594	0.8165	13,227.52 11
Maximum	162.4275	27.9777	40.2452	0.1340	19.9339	1.1317	21.0213	10.1556	1.0411	11.1561	0.0000	13,579.03 79	13,579.03 79	1.9469	0.9040	13,868.42 92

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
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
Total	43.9127	0.9415	81.6840	4.3300e-003	0.0000	0.4541	0.4541	0.0000	0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

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	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
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
Total	43.9127	0.9415	81.6840	4.3300e-003	0.0000	0.4541	0.4541	0.0000	0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1C SP	Site Preparation	1/1/2027	2/22/2027	5	37	
2	1C G	Grading	2/23/2027	7/14/2027	5	102	
3	1C BC	Building Construction	7/15/2027	6/20/2031	5	1027	
4	1C P	Paving	6/21/2031	9/25/2031	5	69	
5	1C AC	Architectural Coating	9/26/2031	12/31/2031	5	69	

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 60

Acres of Paving: 0

Residential Indoor: 2,737,352; Residential Outdoor: 912,451; Non-Residential Indoor: 877,903; Non-Residential Outdoor: 292,634; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1C SP	Rubber Tired Dozers	3	8.00	247	0.40
1C SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1C G	Excavators	2	8.00	158	0.38
1C G	Graders	1	8.00	187	0.41
1C G	Rubber Tired Dozers	1	8.00	247	0.40
1C G	Scrapers	2	8.00	367	0.48

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1C G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1C BC	Cranes	1	7.00	231	0.29
1C BC	Forklifts	3	8.00	89	0.20
1C BC	Generator Sets	1	8.00	84	0.74
1C BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1C BC	Welders	1	8.00	46	0.45
1C P	Pavers	2	8.00	130	0.42
1C P	Paving Equipment	2	8.00	132	0.36
1C P	Rollers	2	8.00	80	0.38
1C AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1C SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C BC	9	988.00	243.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C AC	1	198.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1C SP - 2027

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					19.7860	0.0000	19.7860	10.1164	0.0000	10.1164			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.7860	1.0868	20.8728	10.1164	0.9999	11.1162		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937
Total	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1C SP - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9037	0.0000	8.9037	4.5524	0.0000	4.5524			0.0000			0.0000
Off-Road	0.5108	2.5793	20.8150	0.0381		0.0856	0.0856		0.0835	0.0835	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.5108	2.5793	20.8150	0.0381	8.9037	0.0856	8.9893	4.5524	0.0835	4.6359	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937
Total	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1C G - 2027

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					6.6459	0.0000	6.6459	3.3776	0.0000	3.3776			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.6459	1.1309	7.7768	3.3776	1.0404	4.4180		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

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	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708
Total	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1C G - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9907	0.0000	2.9907	1.5199	0.0000	1.5199			0.0000			0.0000
Off-Road	0.7841	3.5810	32.9722	0.0621		0.1133	0.1133		0.1123	0.1123	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7841	3.5810	32.9722	0.0621	2.9907	0.1133	3.1040	1.5199	0.1123	1.6322	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708
Total	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2441	11.0263	3.2255	0.0461	1.6481	0.0709	1.7190	0.4746	0.0678	0.5425		4,868.828 9	4,868.828 9	0.0158	0.7202	5,083.854 1
Worker	2.6971	1.7209	20.9350	0.0609	8.1162	0.0378	8.1540	2.1528	0.0348	2.1876		6,153.734 6	6,153.734 6	0.1833	0.1838	6,213.077 1
Total	2.9412	12.7472	24.1605	0.1070	9.7643	0.1088	9.8731	2.6274	0.1027	2.7301		11,022.56 35	11,022.56 35	0.1991	0.9040	11,296.93 12

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2027

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2441	11.0263	3.2255	0.0461	1.6481	0.0709	1.7190	0.4746	0.0678	0.5425		4,868.828 9	4,868.828 9	0.0158	0.7202	5,083.854 1
Worker	2.6971	1.7209	20.9350	0.0609	8.1162	0.0378	8.1540	2.1528	0.0348	2.1876		6,153.734 6	6,153.734 6	0.1833	0.1838	6,213.077 1
Total	2.9412	12.7472	24.1605	0.1070	9.7643	0.1088	9.8731	2.6274	0.1027	2.7301		11,022.56 35	11,022.56 35	0.1991	0.9040	11,296.93 12

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2391	10.9661	3.1775	0.0452	1.6481	0.0704	1.7185	0.4746	0.0673	0.5420		4,774.031 3	4,774.031 3	0.0154	0.7052	4,984.554 7
Worker	2.4995	1.5483	19.6349	0.0592	8.1162	0.0354	8.1516	2.1528	0.0326	2.1854		5,979.107 8	5,979.107 8	0.1667	0.1732	6,034.878 9
Total	2.7386	12.5144	22.8124	0.1044	9.7643	0.1058	9.8701	2.6274	0.1000	2.7274		10,753.13 90	10,753.13 90	0.1822	0.8783	11,019.43 36

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2028

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2391	10.9661	3.1775	0.0452	1.6481	0.0704	1.7185	0.4746	0.0673	0.5420		4,774.031 3	4,774.031 3	0.0154	0.7052	4,984.554 7
Worker	2.4995	1.5483	19.6349	0.0592	8.1162	0.0354	8.1516	2.1528	0.0326	2.1854		5,979.107 8	5,979.107 8	0.1667	0.1732	6,034.878 9
Total	2.7386	12.5144	22.8124	0.1044	9.7643	0.1058	9.8701	2.6274	0.1000	2.7274		10,753.13 90	10,753.13 90	0.1822	0.8783	11,019.43 36

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2349	10.8997	3.1385	0.0444	1.6481	0.0698	1.7180	0.4746	0.0668	0.5414		4,682.483 0	4,682.483 0	0.0151	0.6906	4,888.670 0
Worker	2.3161	1.4030	18.5188	0.0576	8.1162	0.0331	8.1493	2.1528	0.0305	2.1833		5,821.677 5	5,821.677 5	0.1523	0.1643	5,874.438 4
Total	2.5509	12.3027	21.6573	0.1020	9.7643	0.1030	9.8673	2.6274	0.0973	2.7247		10,504.16 05	10,504.16 05	0.1674	0.8549	10,763.10 85

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2029

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2349	10.8997	3.1385	0.0444	1.6481	0.0698	1.7180	0.4746	0.0668	0.5414		4,682.483 0	4,682.483 0	0.0151	0.6906	4,888.670 0
Worker	2.3161	1.4030	18.5188	0.0576	8.1162	0.0331	8.1493	2.1528	0.0305	2.1833		5,821.677 5	5,821.677 5	0.1523	0.1643	5,874.438 4
Total	2.5509	12.3027	21.6573	0.1020	9.7643	0.1030	9.8673	2.6274	0.0973	2.7247		10,504.16 05	10,504.16 05	0.1674	0.8549	10,763.10 85

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2313	10.8511	3.1059	0.0436	1.6481	0.0694	1.7175	0.4747	0.0664	0.5410		4,599.5524	4,599.5524	0.0149	0.6775	4,801.8133
Worker	2.1435	1.2794	17.5755	0.0562	8.1162	0.0310	8.1471	2.1528	0.0285	2.1813		5,680.3860	5,680.3860	0.1396	0.1568	5,730.6022
Total	2.3748	12.1305	20.6814	0.0998	9.7643	0.1003	9.8647	2.6274	0.0949	2.7223		10,279.9385	10,279.9385	0.1545	0.8343	10,532.4155

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2030

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2313	10.8511	3.1059	0.0436	1.6481	0.0694	1.7175	0.4747	0.0664	0.5410		4,599.5524	4,599.5524	0.0149	0.6775	4,801.8133
Worker	2.1435	1.2794	17.5755	0.0562	8.1162	0.0310	8.1471	2.1528	0.0285	2.1813		5,680.3860	5,680.3860	0.1396	0.1568	5,730.6022
Total	2.3748	12.1305	20.6814	0.0998	9.7643	0.1003	9.8647	2.6274	0.0949	2.7223		10,279.9385	10,279.9385	0.1545	0.8343	10,532.4155

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2281	10.8200	3.0820	0.0429	1.6481	0.0691	1.7172	0.4747	0.0661	0.5407		4,526.2153	4,526.2153	0.0147	0.6660	4,725.0551
Worker	1.9770	1.1725	16.7560	0.0550	8.1162	0.0289	8.1451	2.1528	0.0266	2.1794		5,553.9691	5,553.9691	0.1284	0.1505	5,602.0131
Total	2.2051	11.9925	19.8380	0.0978	9.7643	0.0980	9.8623	2.6274	0.0927	2.7201		10,080.1843	10,080.1843	0.1432	0.8165	10,327.0682

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2031

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2281	10.8200	3.0820	0.0429	1.6481	0.0691	1.7172	0.4747	0.0661	0.5407		4,526.2153	4,526.2153	0.0147	0.6660	4,725.0551
Worker	1.9770	1.1725	16.7560	0.0550	8.1162	0.0289	8.1451	2.1528	0.0266	2.1794		5,553.9691	5,553.9691	0.1284	0.1505	5,602.0131
Total	2.2051	11.9925	19.8380	0.0978	9.7643	0.0980	9.8623	2.6274	0.0927	2.7201		10,080.1843	10,080.1843	0.1432	0.8165	10,327.0682

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1C P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508
Total	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1C P - 2031

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	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508
Total	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1C AC - 2031

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	161.9006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	162.0313	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.3962	0.2350	3.3580	0.0110	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,113.0424	1,113.0424	0.0257	0.0302	1,122.6706
Total	0.3962	0.2350	3.3580	0.0110	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,113.0424	1,113.0424	0.0257	0.0302	1,122.6706

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1C AC - 2031

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	161.9006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	162.0313	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.3962	0.2350	3.3580	0.0110	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,113.0424	1,113.0424	0.0257	0.0302	1,122.6706
Total	0.3962	0.2350	3.3580	0.0110	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,113.0424	1,113.0424	0.0257	0.0302	1,122.6706

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Junior High School	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00	63	25	12
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
City Park	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Condo/Townhouse	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Junior High School	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Office Park	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Single Family Housing	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Junior High School	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
Office Park	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
Single Family Housing	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

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Junior High School	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
Office Park	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
Single Family Housing	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

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
Unmitigated	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.4658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4469	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541		147.4910	147.4910	0.1407		151.0092
Total	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.4658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4469	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541		147.4910	147.4910	0.1407		151.0092
Total	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1C mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_1C unmitigated

Merced County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	275.00	1000sqft	12.60	550,000.00	0
Junior High School	300.00	Student	0.81	35,268.51	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments High Rise	456.00	Dwelling Unit	16.24	707,499.00	1304
Apartments High Rise	108.00	Dwelling Unit	3.00	130,680.00	309
Condo/Townhouse	364.00	Dwelling Unit	22.75	436,800.00	1041
Single Family Housing	64.00	Dwelling Unit	7.33	76,800.00	183

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2032
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (1C)

Construction Phase - Dates from modeling data document and project description (1C)

Off-road Equipment - defaults

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - 100% single family residential electricity from solar, 25% more efficient than title 24 standards for multifamily

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - tier 4 engines and 15 mph limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	292634	0
tblAreaCoating	Area_Nonresidential_Interior	877903	0
tblAreaCoating	Area_Residential_Exterior	912451	0
tblAreaCoating	Area_Residential_Interior	2737352	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	40.00	37.00
tblConstructionPhase	NumDays	110.00	102.00
tblConstructionPhase	NumDays	1,110.00	1,027.00
tblConstructionPhase	NumDays	75.00	69.00
tblConstructionPhase	NumDays	75.00	69.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	3.59	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	1.89	0.00
tblEnergyUse	NT24E	4.49	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	1.92	0.00
tblEnergyUse	NT24NG	0.82	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.92	0.00
tblEnergyUse	T24E	3.19	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	22.96	0.00
tblEnergyUse	T24NG	21.74	0.00

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	310.20	0.00
tblFireplaces	NumberGas	200.20	0.00
tblFireplaces	NumberGas	35.20	0.00
tblFireplaces	NumberNoFireplace	253.80	0.00
tblFireplaces	NumberNoFireplace	163.80	0.00
tblFireplaces	NumberNoFireplace	28.80	0.00
tblGrading	AcresOfGrading	306.00	60.00
tblGrading	AcresOfGrading	55.50	60.00
tblLandUse	LandUseSquareFeet	275,000.00	550,000.00
tblLandUse	LandUseSquareFeet	456,000.00	707,499.00
tblLandUse	LandUseSquareFeet	108,000.00	130,680.00
tblLandUse	LandUseSquareFeet	364,000.00	436,800.00
tblLandUse	LandUseSquareFeet	115,200.00	76,800.00
tblLandUse	LotAcreage	6.31	12.60
tblLandUse	LotAcreage	7.35	16.24
tblLandUse	LotAcreage	1.74	3.00
tblLandUse	LotAcreage	20.78	7.33
tblSolidWaste	SolidWasteGenerationRate	259.44	0.00
tblSolidWaste	SolidWasteGenerationRate	0.50	0.00
tblSolidWaste	SolidWasteGenerationRate	167.44	0.00
tblSolidWaste	SolidWasteGenerationRate	54.75	0.00
tblSolidWaste	SolidWasteGenerationRate	255.75	0.00
tblSolidWaste	SolidWasteGenerationRate	65.88	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	9.54	0.00

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	2.13	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	36,746,870.45	0.00
tblWater	IndoorWaterUseRate	23,716,065.33	0.00
tblWater	IndoorWaterUseRate	727,272.00	0.00
tblWater	IndoorWaterUseRate	48,876,780.70	0.00
tblWater	IndoorWaterUseRate	4,169,857.64	0.00
tblWater	OutdoorWaterUseRate	23,166,505.28	0.00
tblWater	OutdoorWaterUseRate	6,910,591.83	0.00
tblWater	OutdoorWaterUseRate	14,951,432.49	0.00
tblWater	OutdoorWaterUseRate	1,870,128.00	0.00
tblWater	OutdoorWaterUseRate	29,956,736.56	0.00
tblWater	OutdoorWaterUseRate	2,628,823.29	0.00
tblWoodstoves	NumberCatalytic	19.24	0.00
tblWoodstoves	NumberCatalytic	22.75	0.00
tblWoodstoves	NumberCatalytic	7.33	0.00
tblWoodstoves	NumberNoncatalytic	19.24	0.00
tblWoodstoves	NumberNoncatalytic	22.75	0.00
tblWoodstoves	NumberNoncatalytic	7.33	0.00

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	4.6367	27.9723	43.4444	0.1410	19.9339	1.1317	21.0213	10.1556	1.0411	11.1561	0.0000	14,293.87 40	14,293.87 40	1.9465	0.8824	14,576.37 23
2028	4.4080	24.0353	41.8232	0.1382	9.7643	0.6332	10.3975	2.6274	0.5960	3.2235	0.0000	14,002.89 69	14,002.89 69	0.7662	0.8580	14,277.72 13
2029	4.1960	23.8513	40.4432	0.1356	9.7643	0.6303	10.3946	2.6274	0.5934	3.2208	0.0000	13,734.80 09	13,734.80 09	0.7524	0.8356	14,002.61 75
2030	3.9384	19.1672	39.3512	0.1372	9.7643	0.2483	10.0126	2.6274	0.2428	2.8703	0.0000	13,834.73 38	13,834.73 38	0.2557	0.8159	14,084.25 03
2031	162.4707	19.0485	38.3490	0.1352	9.7643	0.3311	10.0103	2.6274	0.3310	2.8681	0.0000	13,620.03 25	13,620.03 25	0.2452	0.7988	13,864.20 38
Maximum	162.4707	27.9723	43.4444	0.1410	19.9339	1.1317	21.0213	10.1556	1.0411	11.1561	0.0000	14,293.87 40	14,293.87 40	1.9465	0.8824	14,576.37 23

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
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
Total	43.9127	0.9415	81.6840	4.3300e-003	0.0000	0.4541	0.4541	0.0000	0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

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	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
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
Total	43.9127	0.9415	81.6840	4.3300e-003	0.0000	0.4541	0.4541	0.0000	0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1C SP	Site Preparation	1/1/2027	2/22/2027	5	37	
2	1C G	Grading	2/23/2027	7/14/2027	5	102	
3	1C BC	Building Construction	7/15/2027	6/20/2031	5	1027	
4	1C P	Paving	6/21/2031	9/25/2031	5	69	
5	1C AC	Architectural Coating	9/26/2031	12/31/2031	5	69	

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 60

Acres of Paving: 0

Residential Indoor: 2,737,352; Residential Outdoor: 912,451; Non-Residential Indoor: 877,903; Non-Residential Outdoor: 292,634; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1C SP	Rubber Tired Dozers	3	8.00	247	0.40
1C SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1C G	Excavators	2	8.00	158	0.38
1C G	Graders	1	8.00	187	0.41
1C G	Rubber Tired Dozers	1	8.00	247	0.40
1C G	Scrapers	2	8.00	367	0.48

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1C G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1C BC	Cranes	1	7.00	231	0.29
1C BC	Forklifts	3	8.00	89	0.20
1C BC	Generator Sets	1	8.00	84	0.74
1C BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1C BC	Welders	1	8.00	46	0.45
1C P	Pavers	2	8.00	130	0.42
1C P	Paving Equipment	2	8.00	132	0.36
1C P	Rollers	2	8.00	80	0.38
1C AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1C SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C BC	9	988.00	243.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C AC	1	198.00	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

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1C SP - 2027

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					19.7860	0.0000	19.7860	10.1164	0.0000	10.1164			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.7860	1.0868	20.8728	10.1164	0.9999	11.1162		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827
Total	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1C SP - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9037	0.0000	8.9037	4.5524	0.0000	4.5524			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	8.9037	1.0868	9.9905	4.5524	0.9999	5.5522	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827
Total	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1C G - 2027

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					6.6459	0.0000	6.6459	3.3776	0.0000	3.3776			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.6459	1.1309	7.7768	3.3776	1.0404	4.4180		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

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	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141
Total	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1C G - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9907	0.0000	2.9907	1.5199	0.0000	1.5199			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	2.9907	1.1309	4.1216	1.5199	1.0404	2.5603	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141
Total	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2613	10.3125	3.1211	0.0460	1.6481	0.0707	1.7188	0.4746	0.0676	0.5423		4,858.954 7	4,858.954 7	0.0166	0.7181	5,073.358 3
Worker	3.0080	1.4541	24.2387	0.0681	8.1162	0.0378	8.1540	2.1528	0.0348	2.1876		6,878.444 9	6,878.444 9	0.1645	0.1643	6,931.515 9
Total	3.2693	11.7666	27.3598	0.1141	9.7643	0.1086	9.8729	2.6274	0.1025	2.7299		11,737.39 97	11,737.39 97	0.1811	0.8824	12,004.87 42

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2613	10.3125	3.1211	0.0460	1.6481	0.0707	1.7188	0.4746	0.0676	0.5423		4,858.954 7	4,858.954 7	0.0166	0.7181	5,073.358 3
Worker	3.0080	1.4541	24.2387	0.0681	8.1162	0.0378	8.1540	2.1528	0.0348	2.1876		6,878.444 9	6,878.444 9	0.1645	0.1643	6,931.515 9
Total	3.2693	11.7666	27.3598	0.1141	9.7643	0.1086	9.8729	2.6274	0.1025	2.7299		11,737.39 97	11,737.39 97	0.1811	0.8824	12,004.87 42

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2562	10.2567	3.0735	0.0451	1.6481	0.0702	1.7183	0.4746	0.0672	0.5418		4,764.317 7	4,764.317 7	0.0162	0.7031	4,974.237 7
Worker	2.7844	1.3089	22.6651	0.0661	8.1162	0.0354	8.1516	2.1528	0.0326	2.1854		6,682.104 8	6,682.104 8	0.1490	0.1549	6,731.985 5
Total	3.0406	11.5656	25.7385	0.1113	9.7643	0.1056	9.8699	2.6274	0.0998	2.7272		11,446.42 25	11,446.42 25	0.1652	0.8580	11,706.22 33

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2562	10.2567	3.0735	0.0451	1.6481	0.0702	1.7183	0.4746	0.0672	0.5418		4,764.317 7	4,764.317 7	0.0162	0.7031	4,974.237 7
Worker	2.7844	1.3089	22.6651	0.0661	8.1162	0.0354	8.1516	2.1528	0.0326	2.1854		6,682.104 8	6,682.104 8	0.1490	0.1549	6,731.985 5
Total	3.0406	11.5656	25.7385	0.1113	9.7643	0.1056	9.8699	2.6274	0.0998	2.7272		11,446.42 25	11,446.42 25	0.1652	0.8580	11,706.22 33

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2519	10.1950	3.0348	0.0443	1.6481	0.0696	1.7178	0.4746	0.0666	0.5413		4,672.933 4	4,672.933 4	0.0159	0.6886	4,878.532 8
Worker	2.5767	1.1867	21.3237	0.0644	8.1162	0.0331	8.1493	2.1528	0.0305	2.1833		6,505.393 2	6,505.393 2	0.1355	0.1470	6,552.586 6
Total	2.8286	11.3817	24.3585	0.1086	9.7643	0.1028	9.8671	2.6274	0.0971	2.7245		11,178.32 65	11,178.32 65	0.1514	0.8356	11,431.11 94

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2519	10.1950	3.0348	0.0443	1.6481	0.0696	1.7178	0.4746	0.0666	0.5413		4,672.933 4	4,672.933 4	0.0159	0.6886	4,878.532 8
Worker	2.5767	1.1867	21.3237	0.0644	8.1162	0.0331	8.1493	2.1528	0.0305	2.1833		6,505.393 2	6,505.393 2	0.1355	0.1470	6,552.586 6
Total	2.8286	11.3817	24.3585	0.1086	9.7643	0.1028	9.8671	2.6274	0.0971	2.7245		11,178.32 65	11,178.32 65	0.1514	0.8356	11,431.11 94

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2484	10.1498	3.0024	0.0435	1.6481	0.0692	1.7173	0.4747	0.0662	0.5409		4,590.1530	4,590.1530	0.0157	0.6755	4,791.8398
Worker	2.3809	1.0828	20.1918	0.0628	8.1162	0.0310	8.1471	2.1528	0.0285	2.1813		6,347.0341	6,347.0341	0.1238	0.1404	6,391.9576
Total	2.6292	11.2325	23.1942	0.1063	9.7643	0.1002	9.8645	2.6274	0.0947	2.7221		10,937.1871	10,937.1871	0.1395	0.8159	11,183.7974

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2484	10.1498	3.0024	0.0435	1.6481	0.0692	1.7173	0.4747	0.0662	0.5409		4,590.1530	4,590.1530	0.0157	0.6755	4,791.8398
Worker	2.3809	1.0828	20.1918	0.0628	8.1162	0.0310	8.1471	2.1528	0.0285	2.1813		6,347.0341	6,347.0341	0.1238	0.1404	6,391.9576
Total	2.6292	11.2325	23.1942	0.1063	9.7643	0.1002	9.8645	2.6274	0.0947	2.7221		10,937.1871	10,937.1871	0.1395	0.8159	11,183.7974

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2452	10.1209	2.9786	0.0428	1.6481	0.0689	1.7170	0.4747	0.0659	0.5405		4,516.9420	4,516.9420	0.0155	0.6641	4,715.2192
Worker	2.1925	0.9930	19.2134	0.0614	8.1162	0.0289	8.1451	2.1528	0.0266	2.1794		6,205.5437	6,205.5437	0.1135	0.1347	6,248.5317
Total	2.4377	11.1139	22.1920	0.1042	9.7643	0.0978	9.8621	2.6274	0.0925	2.7200		10,722.4858	10,722.4858	0.1290	0.7988	10,963.7509

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2452	10.1209	2.9786	0.0428	1.6481	0.0689	1.7170	0.4747	0.0659	0.5405		4,516.9420	4,516.9420	0.0155	0.6641	4,715.2192
Worker	2.1925	0.9930	19.2134	0.0614	8.1162	0.0289	8.1451	2.1528	0.0266	2.1794		6,205.5437	6,205.5437	0.1135	0.1347	6,248.5317
Total	2.4377	11.1139	22.1920	0.1042	9.7643	0.0978	9.8621	2.6274	0.0925	2.7200		10,722.4858	10,722.4858	0.1290	0.7988	10,963.7509

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1C P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664
Total	0.0333	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1C P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664
Total	0.0333	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1C AC - 2031

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	161.9006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	162.0313	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.4394	0.1990	3.8505	0.0123	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,243.6211	1,243.6211	0.0228	0.0270	1,252.2361
Total	0.4394	0.1990	3.8505	0.0123	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,243.6211	1,243.6211	0.0228	0.0270	1,252.2361

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1C AC - 2031

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	161.9006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	162.0313	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.4394	0.1990	3.8505	0.0123	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,243.621 1	1,243.621 1	0.0228	0.0270	1,252.236 1
Total	0.4394	0.1990	3.8505	0.0123	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,243.621 1	1,243.621 1	0.0228	0.0270	1,252.236 1

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Junior High School	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00	63	25	12
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
City Park	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Condo/Townhouse	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Junior High School	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Office Park	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Single Family Housing	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Junior High School	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
Office Park	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
Single Family Housing	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

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Junior High School	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
Office Park	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
Single Family Housing	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

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
Unmitigated	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.4658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4469	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541		147.4910	147.4910	0.1407		151.0092
Total	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.4658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4469	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541		147.4910	147.4910	0.1407		151.0092
Total	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1C unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_1C unmitigated

Merced County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	275.00	1000sqft	12.60	550,000.00	0
Junior High School	300.00	Student	0.81	35,268.51	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments High Rise	456.00	Dwelling Unit	16.24	707,499.00	1304
Apartments High Rise	108.00	Dwelling Unit	3.00	130,680.00	309
Condo/Townhouse	364.00	Dwelling Unit	22.75	436,800.00	1041
Single Family Housing	64.00	Dwelling Unit	7.33	76,800.00	183

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2032
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (1C)

Construction Phase - Dates from modeling data document and project description (1C)

Off-road Equipment - defaults

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - 100% single family residential electricity from solar, 25% more efficient than title 24 standards for multifamily

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - tier 4 engines and 15 mph limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	292634	0
tblAreaCoating	Area_Nonresidential_Interior	877903	0
tblAreaCoating	Area_Residential_Exterior	912451	0
tblAreaCoating	Area_Residential_Interior	2737352	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	40.00	37.00
tblConstructionPhase	NumDays	110.00	102.00
tblConstructionPhase	NumDays	1,110.00	1,027.00
tblConstructionPhase	NumDays	75.00	69.00
tblConstructionPhase	NumDays	75.00	69.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	3.59	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	1.89	0.00
tblEnergyUse	NT24E	4.49	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	1.92	0.00
tblEnergyUse	NT24NG	0.82	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.92	0.00
tblEnergyUse	T24E	3.19	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	22.96	0.00
tblEnergyUse	T24NG	21.74	0.00

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	310.20	0.00
tblFireplaces	NumberGas	200.20	0.00
tblFireplaces	NumberGas	35.20	0.00
tblFireplaces	NumberNoFireplace	253.80	0.00
tblFireplaces	NumberNoFireplace	163.80	0.00
tblFireplaces	NumberNoFireplace	28.80	0.00
tblGrading	AcresOfGrading	306.00	60.00
tblGrading	AcresOfGrading	55.50	60.00
tblLandUse	LandUseSquareFeet	275,000.00	550,000.00
tblLandUse	LandUseSquareFeet	456,000.00	707,499.00
tblLandUse	LandUseSquareFeet	108,000.00	130,680.00
tblLandUse	LandUseSquareFeet	364,000.00	436,800.00
tblLandUse	LandUseSquareFeet	115,200.00	76,800.00
tblLandUse	LotAcreage	6.31	12.60
tblLandUse	LotAcreage	7.35	16.24
tblLandUse	LotAcreage	1.74	3.00
tblLandUse	LotAcreage	20.78	7.33
tblSolidWaste	SolidWasteGenerationRate	259.44	0.00
tblSolidWaste	SolidWasteGenerationRate	0.50	0.00
tblSolidWaste	SolidWasteGenerationRate	167.44	0.00
tblSolidWaste	SolidWasteGenerationRate	54.75	0.00
tblSolidWaste	SolidWasteGenerationRate	255.75	0.00
tblSolidWaste	SolidWasteGenerationRate	65.88	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	9.54	0.00

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	2.13	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	36,746,870.45	0.00
tblWater	IndoorWaterUseRate	23,716,065.33	0.00
tblWater	IndoorWaterUseRate	727,272.00	0.00
tblWater	IndoorWaterUseRate	48,876,780.70	0.00
tblWater	IndoorWaterUseRate	4,169,857.64	0.00
tblWater	OutdoorWaterUseRate	23,166,505.28	0.00
tblWater	OutdoorWaterUseRate	6,910,591.83	0.00
tblWater	OutdoorWaterUseRate	14,951,432.49	0.00
tblWater	OutdoorWaterUseRate	1,870,128.00	0.00
tblWater	OutdoorWaterUseRate	29,956,736.56	0.00
tblWater	OutdoorWaterUseRate	2,628,823.29	0.00
tblWoodstoves	NumberCatalytic	19.24	0.00
tblWoodstoves	NumberCatalytic	22.75	0.00
tblWoodstoves	NumberCatalytic	7.33	0.00
tblWoodstoves	NumberNoncatalytic	19.24	0.00
tblWoodstoves	NumberNoncatalytic	22.75	0.00
tblWoodstoves	NumberNoncatalytic	7.33	0.00

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	4.3086	27.9777	40.2452	0.1340	19.9339	1.1317	21.0213	10.1556	1.0411	11.1561	0.0000	13,579.03 79	13,579.03 79	1.9469	0.9040	13,868.42 92
2028	4.1060	24.9841	38.8971	0.1313	9.7643	0.6334	10.3977	2.6274	0.5962	3.2236	0.0000	13,309.61 34	13,309.61 34	0.7831	0.8783	13,590.93 17
2029	3.9183	24.7724	37.7419	0.1289	9.7643	0.6305	10.3948	2.6274	0.5935	3.2210	0.0000	13,060.63 49	13,060.63 49	0.7684	0.8549	13,334.60 65
2030	3.6839	20.0651	36.8383	0.1307	9.7643	0.2485	10.0128	2.6274	0.2430	2.8704	0.0000	13,177.48 52	13,177.48 52	0.2708	0.8343	13,432.86 83
2031	162.4275	19.9271	35.9950	0.1288	9.7643	0.3311	10.0105	2.6274	0.3310	2.8683	0.0000	12,977.73 11	12,977.73 11	0.2594	0.8165	13,227.52 11
Maximum	162.4275	27.9777	40.2452	0.1340	19.9339	1.1317	21.0213	10.1556	1.0411	11.1561	0.0000	13,579.03 79	13,579.03 79	1.9469	0.9040	13,868.42 92

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
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
Total	43.9127	0.9415	81.6840	4.3300e-003	0.0000	0.4541	0.4541	0.0000	0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

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	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
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
Total	43.9127	0.9415	81.6840	4.3300e-003	0.0000	0.4541	0.4541	0.0000	0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1C SP	Site Preparation	1/1/2027	2/22/2027	5	37	
2	1C G	Grading	2/23/2027	7/14/2027	5	102	
3	1C BC	Building Construction	7/15/2027	6/20/2031	5	1027	
4	1C P	Paving	6/21/2031	9/25/2031	5	69	
5	1C AC	Architectural Coating	9/26/2031	12/31/2031	5	69	

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 60

Acres of Paving: 0

Residential Indoor: 2,737,352; Residential Outdoor: 912,451; Non-Residential Indoor: 877,903; Non-Residential Outdoor: 292,634; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1C SP	Rubber Tired Dozers	3	8.00	247	0.40
1C SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1C G	Excavators	2	8.00	158	0.38
1C G	Graders	1	8.00	187	0.41
1C G	Rubber Tired Dozers	1	8.00	247	0.40
1C G	Scrapers	2	8.00	367	0.48

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1C G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1C BC	Cranes	1	7.00	231	0.29
1C BC	Forklifts	3	8.00	89	0.20
1C BC	Generator Sets	1	8.00	84	0.74
1C BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1C BC	Welders	1	8.00	46	0.45
1C P	Pavers	2	8.00	130	0.42
1C P	Paving Equipment	2	8.00	132	0.36
1C P	Rollers	2	8.00	80	0.38
1C AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1C SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C BC	9	988.00	243.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1C AC	1	198.00	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

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1C SP - 2027

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					19.7860	0.0000	19.7860	10.1164	0.0000	10.1164			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.7860	1.0868	20.8728	10.1164	0.9999	11.1162		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937
Total	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1C SP - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9037	0.0000	8.9037	4.5524	0.0000	4.5524			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	8.9037	1.0868	9.9905	4.5524	0.9999	5.5522	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937
Total	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1C G - 2027

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					6.6459	0.0000	6.6459	3.3776	0.0000	3.3776			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.6459	1.1309	7.7768	3.3776	1.0404	4.4180		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

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	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708
Total	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1C G - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9907	0.0000	2.9907	1.5199	0.0000	1.5199			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	2.9907	1.1309	4.1216	1.5199	1.0404	2.5603	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

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	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708
Total	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2441	11.0263	3.2255	0.0461	1.6481	0.0709	1.7190	0.4746	0.0678	0.5425		4,868.828 9	4,868.828 9	0.0158	0.7202	5,083.854 1
Worker	2.6971	1.7209	20.9350	0.0609	8.1162	0.0378	8.1540	2.1528	0.0348	2.1876		6,153.734 6	6,153.734 6	0.1833	0.1838	6,213.077 1
Total	2.9412	12.7472	24.1605	0.1070	9.7643	0.1088	9.8731	2.6274	0.1027	2.7301		11,022.56 35	11,022.56 35	0.1991	0.9040	11,296.93 12

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2441	11.0263	3.2255	0.0461	1.6481	0.0709	1.7190	0.4746	0.0678	0.5425		4,868.828 9	4,868.828 9	0.0158	0.7202	5,083.854 1
Worker	2.6971	1.7209	20.9350	0.0609	8.1162	0.0378	8.1540	2.1528	0.0348	2.1876		6,153.734 6	6,153.734 6	0.1833	0.1838	6,213.077 1
Total	2.9412	12.7472	24.1605	0.1070	9.7643	0.1088	9.8731	2.6274	0.1027	2.7301		11,022.56 35	11,022.56 35	0.1991	0.9040	11,296.93 12

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2391	10.9661	3.1775	0.0452	1.6481	0.0704	1.7185	0.4746	0.0673	0.5420		4,774.031 3	4,774.031 3	0.0154	0.7052	4,984.554 7
Worker	2.4995	1.5483	19.6349	0.0592	8.1162	0.0354	8.1516	2.1528	0.0326	2.1854		5,979.107 8	5,979.107 8	0.1667	0.1732	6,034.878 9
Total	2.7386	12.5144	22.8124	0.1044	9.7643	0.1058	9.8701	2.6274	0.1000	2.7274		10,753.13 90	10,753.13 90	0.1822	0.8783	11,019.43 36

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2391	10.9661	3.1775	0.0452	1.6481	0.0704	1.7185	0.4746	0.0673	0.5420		4,774.031 3	4,774.031 3	0.0154	0.7052	4,984.554 7
Worker	2.4995	1.5483	19.6349	0.0592	8.1162	0.0354	8.1516	2.1528	0.0326	2.1854		5,979.107 8	5,979.107 8	0.1667	0.1732	6,034.878 9
Total	2.7386	12.5144	22.8124	0.1044	9.7643	0.1058	9.8701	2.6274	0.1000	2.7274		10,753.13 90	10,753.13 90	0.1822	0.8783	11,019.43 36

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2349	10.8997	3.1385	0.0444	1.6481	0.0698	1.7180	0.4746	0.0668	0.5414		4,682.483 0	4,682.483 0	0.0151	0.6906	4,888.670 0
Worker	2.3161	1.4030	18.5188	0.0576	8.1162	0.0331	8.1493	2.1528	0.0305	2.1833		5,821.677 5	5,821.677 5	0.1523	0.1643	5,874.438 4
Total	2.5509	12.3027	21.6573	0.1020	9.7643	0.1030	9.8673	2.6274	0.0973	2.7247		10,504.16 05	10,504.16 05	0.1674	0.8549	10,763.10 85

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2349	10.8997	3.1385	0.0444	1.6481	0.0698	1.7180	0.4746	0.0668	0.5414		4,682.483 0	4,682.483 0	0.0151	0.6906	4,888.670 0
Worker	2.3161	1.4030	18.5188	0.0576	8.1162	0.0331	8.1493	2.1528	0.0305	2.1833		5,821.677 5	5,821.677 5	0.1523	0.1643	5,874.438 4
Total	2.5509	12.3027	21.6573	0.1020	9.7643	0.1030	9.8673	2.6274	0.0973	2.7247		10,504.16 05	10,504.16 05	0.1674	0.8549	10,763.10 85

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2313	10.8511	3.1059	0.0436	1.6481	0.0694	1.7175	0.4747	0.0664	0.5410		4,599.5524	4,599.5524	0.0149	0.6775	4,801.8133
Worker	2.1435	1.2794	17.5755	0.0562	8.1162	0.0310	8.1471	2.1528	0.0285	2.1813		5,680.3860	5,680.3860	0.1396	0.1568	5,730.6022
Total	2.3748	12.1305	20.6814	0.0998	9.7643	0.1003	9.8647	2.6274	0.0949	2.7223		10,279.9385	10,279.9385	0.1545	0.8343	10,532.4155

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2313	10.8511	3.1059	0.0436	1.6481	0.0694	1.7175	0.4747	0.0664	0.5410		4,599.5524	4,599.5524	0.0149	0.6775	4,801.8133
Worker	2.1435	1.2794	17.5755	0.0562	8.1162	0.0310	8.1471	2.1528	0.0285	2.1813		5,680.3860	5,680.3860	0.1396	0.1568	5,730.6022
Total	2.3748	12.1305	20.6814	0.0998	9.7643	0.1003	9.8647	2.6274	0.0949	2.7223		10,279.9385	10,279.9385	0.1545	0.8343	10,532.4155

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2281	10.8200	3.0820	0.0429	1.6481	0.0691	1.7172	0.4747	0.0661	0.5407		4,526.2153	4,526.2153	0.0147	0.6660	4,725.0551
Worker	1.9770	1.1725	16.7560	0.0550	8.1162	0.0289	8.1451	2.1528	0.0266	2.1794		5,553.9691	5,553.9691	0.1284	0.1505	5,602.0131
Total	2.2051	11.9925	19.8380	0.0978	9.7643	0.0980	9.8623	2.6274	0.0927	2.7201		10,080.1843	10,080.1843	0.1432	0.8165	10,327.0682

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1C BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2281	10.8200	3.0820	0.0429	1.6481	0.0691	1.7172	0.4747	0.0661	0.5407		4,526.2153	4,526.2153	0.0147	0.6660	4,725.0551
Worker	1.9770	1.1725	16.7560	0.0550	8.1162	0.0289	8.1451	2.1528	0.0266	2.1794		5,553.9691	5,553.9691	0.1284	0.1505	5,602.0131
Total	2.2051	11.9925	19.8380	0.0978	9.7643	0.0980	9.8623	2.6274	0.0927	2.7201		10,080.1843	10,080.1843	0.1432	0.8165	10,327.0682

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1C P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508
Total	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1C P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508
Total	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1C AC - 2031

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	161.9006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	162.0313	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.3962	0.2350	3.3580	0.0110	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,113.0424	1,113.0424	0.0257	0.0302	1,122.6706
Total	0.3962	0.2350	3.3580	0.0110	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,113.0424	1,113.0424	0.0257	0.0302	1,122.6706

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1C AC - 2031

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	161.9006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	162.0313	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.3962	0.2350	3.3580	0.0110	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,113.0424	1,113.0424	0.0257	0.0302	1,122.6706
Total	0.3962	0.2350	3.3580	0.0110	1.6265	5.8000e-003	1.6323	0.4314	5.3300e-003	0.4368		1,113.0424	1,113.0424	0.0257	0.0302	1,122.6706

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Junior High School	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00	63	25	12
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
City Park	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Condo/Townhouse	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Junior High School	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Office Park	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191
Single Family Housing	0.562529	0.048288	0.155742	0.118958	0.021193	0.005654	0.014006	0.049047	0.000852	0.000451	0.019129	0.001962	0.002191

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Junior High School	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
Office Park	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
Single Family Housing	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

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Junior High School	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
Office Park	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
Single Family Housing	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

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092
Unmitigated	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.4658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4469	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541		147.4910	147.4910	0.1407		151.0092
Total	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.4658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4469	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541		147.4910	147.4910	0.1407		151.0092
Total	43.9127	0.9415	81.6840	4.3300e-003		0.4541	0.4541		0.4541	0.4541	0.0000	147.4910	147.4910	0.1407	0.0000	151.0092

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1C unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1D Mitigated
Merced County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.30	Acre	7.30	317,988.00	0
City Park	1.40	Acre	1.40	60,984.00	0
Single Family Housing	24.00	Dwelling Unit	2.75	28,800.00	69
Single Family Housing	141.00	Dwelling Unit	23.60	211,500.00	403
Free-Standing Discount store	32.50	1000sqft	0.75	32,500.00	0
Regional Shopping Center	175.00	1000sqft	4.01	175,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2033
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (1D)

Construction Phase - Dates from modeling data document and project description (1D)

Off-road Equipment - defaults

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT study

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - in operational model

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - tier 4 engines, 15 mph speed limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	103750	0
tblAreaCoating	Area_Nonresidential_Interior	311250	0
tblAreaCoating	Area_Residential_Exterior	162203	0
tblAreaCoating	Area_Residential_Interior	486608	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	37.00
tblConstructionPhase	NumDays	75.00	102.00
tblConstructionPhase	NumDays	740.00	1,027.00
tblConstructionPhase	NumDays	55.00	69.00
tblConstructionPhase	NumDays	55.00	69.00

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	90.75	0.00
tblFireplaces	NumberNoFireplace	74.25	0.00
tblGrading	AcresOfGrading	306.00	45.00
tblGrading	AcresOfGrading	55.50	45.00
tblLandUse	LandUseSquareFeet	253,800.00	211,500.00
tblLandUse	LandUseSquareFeet	43,200.00	28,800.00
tblLandUse	LotAcreage	45.78	23.60
tblLandUse	LotAcreage	7.79	2.75
tblLandUse	LotAcreage	4.02	4.01
tblSolidWaste	SolidWasteGenerationRate	0.75	0.00
tblSolidWaste	SolidWasteGenerationRate	139.77	0.00

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	183.75	0.00
tblSolidWaste	SolidWasteGenerationRate	169.92	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	70.76	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	60.21	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	53.12	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,407,356.95	0.00
tblWater	IndoorWaterUseRate	12,962,691.26	0.00
tblWater	IndoorWaterUseRate	10,750,414.23	0.00
tblWater	OutdoorWaterUseRate	10,365,887.74	0.00
tblWater	OutdoorWaterUseRate	1,475,476.84	0.00
tblWater	OutdoorWaterUseRate	7,944,875.29	0.00
tblWater	OutdoorWaterUseRate	6,777,435.06	0.00
tblWoodstoves	NumberCatalytic	26.35	0.00
tblWoodstoves	NumberNoncatalytic	26.35	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2027	2.9621	27.9723	26.8218	0.0682	19.5039	1.1317	20.5914	10.1092	1.0411	11.1097	0.0000	6,820.1508	6,820.1508	1.9465	0.3843	6,951.0678
2028	2.2908	17.6591	24.0645	0.0672	3.1144	0.5707	3.6851	0.8437	0.5372	1.3808	0.0000	6,719.1166	6,719.1166	0.6515	0.3745	6,847.0100
2029	2.2289	17.5948	23.6595	0.0663	3.1144	0.5698	3.6842	0.8437	0.5363	1.3800	0.0000	6,625.2704	6,625.2704	0.6475	0.3655	6,750.3617
2030	2.1124	13.0086	23.3901	0.0695	3.1144	0.1895	3.3040	0.8437	0.1874	1.0311	0.0000	6,881.8271	6,881.8271	0.1593	0.3574	6,992.3104
2031	35.9874	12.9691	23.0967	0.0688	3.1144	0.3311	3.3032	0.8437	0.3310	1.0304	0.0000	6,806.6667	6,806.6667	0.1562	0.3504	6,914.9921
2032	35.9781	0.9094	2.8592	6.4400e-003	0.4682	0.0219	0.4901	0.1242	0.0217	0.1460	0.0000	632.2102	632.2102	0.0174	7.5100e-003	634.8844
Maximum	35.9874	27.9723	26.8218	0.0695	19.5039	1.1317	20.5914	10.1092	1.0411	11.1097	0.0000	6,881.8271	6,881.8271	1.9465	0.3843	6,992.3104

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
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
Total	10.0105	0.1567	13.5987	7.2000e-004	0.0000	0.0756	0.0756	0.0000	0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

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	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
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
Total	10.0105	0.1567	13.5987	7.2000e-004	0.0000	0.0756	0.0756	0.0000	0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1D SP	Site Preparation	4/1/2027	5/21/2027	5	37	
2	1D G	Grading	5/22/2027	10/12/2027	5	102	
3	1D BC	Building Construction	10/13/2027	9/18/2031	5	1027	
4	1D P	Paving	9/19/2031	12/24/2031	5	69	
5	1D AC	Architectural Coating	12/25/2031	3/30/2032	5	69	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 486,608; Residential Outdoor: 162,203; Non-Residential Indoor: 311,250; Non-Residential Outdoor: 103,750; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1D SP	Rubber Tired Dozers	3	8.00	247	0.40
1D SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1D G	Excavators	2	8.00	158	0.38
1D G	Graders	1	8.00	187	0.41
1D G	Rubber Tired Dozers	1	8.00	247	0.40
1D G	Scrapers	2	8.00	367	0.48

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1D G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1D BC	Cranes	1	7.00	231	0.29
1D BC	Forklifts	3	8.00	89	0.20
1D BC	Generator Sets	1	8.00	84	0.74
1D BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1D BC	Welders	1	8.00	46	0.45
1D P	Pavers	2	8.00	130	0.42
1D P	Paving Equipment	2	8.00	132	0.36
1D P	Rollers	2	8.00	80	0.38
1D AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1D SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D BC	9	285.00	114.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D AC	1	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1D SP - 2027

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					19.3561	0.0000	19.3561	10.0700	0.0000	10.0700			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.3561	1.0868	20.4429	10.0700	0.9999	11.0698		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827
Total	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1D SP - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7102	0.0000	8.7102	4.5315	0.0000	4.5315			0.0000			0.0000
Off-Road	0.5108	2.5793	20.8150	0.0381		0.0856	0.0856		0.0835	0.0835	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.5108	2.5793	20.8150	0.0381	8.7102	0.0856	8.7958	4.5315	0.0835	4.6150	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827
Total	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1D G - 2027

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					6.4900	0.0000	6.4900	3.3608	0.0000	3.3608			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.4900	1.1309	7.6208	3.3608	1.0404	4.4012		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141
Total	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1D G - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9205	0.0000	2.9205	1.5123	0.0000	1.5123			0.0000			0.0000
Off-Road	0.7841	3.5810	32.9722	0.0621		0.1133	0.1133		0.1123	0.1123	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7841	3.5810	32.9722	0.0621	2.9205	0.1133	3.0338	1.5123	0.1123	1.6246	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141
Total	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1226	4.8380	1.4642	0.0216	0.7732	0.0332	0.8064	0.2227	0.0317	0.2544		2,279.509 6	2,279.509 6	7.7800e- 003	0.3369	2,380.094 0
Worker	0.8677	0.4195	6.9919	0.0196	2.3412	0.0109	2.3521	0.6210	0.0100	0.6310		1,984.166 8	1,984.166 8	0.0475	0.0474	1,999.475 8
Total	0.9903	5.2574	8.4561	0.0412	3.1144	0.0441	3.1585	0.8437	0.0418	0.8854		4,263.676 4	4,263.676 4	0.0552	0.3843	4,379.569 8

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2027

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1226	4.8380	1.4642	0.0216	0.7732	0.0332	0.8064	0.2227	0.0317	0.2544		2,279.509 6	2,279.509 6	7.7800e- 003	0.3369	2,380.094 0
Worker	0.8677	0.4195	6.9919	0.0196	2.3412	0.0109	2.3521	0.6210	0.0100	0.6310		1,984.166 8	1,984.166 8	0.0475	0.0474	1,999.475 8
Total	0.9903	5.2574	8.4561	0.0412	3.1144	0.0441	3.1585	0.8437	0.0418	0.8854		4,263.676 4	4,263.676 4	0.0552	0.3843	4,379.569 8

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1202	4.8118	1.4419	0.0212	0.7732	0.0329	0.8061	0.2227	0.0315	0.2542		2,235.112 0	2,235.112 0	7.6000e-003	0.3298	2,333.593 0
Worker	0.8032	0.3776	6.5380	0.0191	2.3412	0.0102	2.3514	0.6210	9.4100e-003	0.6304		1,927.530 2	1,927.530 2	0.0430	0.0447	1,941.918 9
Total	0.9234	5.1894	7.9799	0.0402	3.1144	0.0432	3.1576	0.8437	0.0409	0.8846		4,162.642 3	4,162.642 3	0.0506	0.3745	4,275.511 9

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2028

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1202	4.8118	1.4419	0.0212	0.7732	0.0329	0.8061	0.2227	0.0315	0.2542		2,235.112 0	2,235.112 0	7.6000e- 003	0.3298	2,333.593 0
Worker	0.8032	0.3776	6.5380	0.0191	2.3412	0.0102	2.3514	0.6210	9.4100e- 003	0.6304		1,927.530 2	1,927.530 2	0.0430	0.0447	1,941.918 9
Total	0.9234	5.1894	7.9799	0.0402	3.1144	0.0432	3.1576	0.8437	0.0409	0.8846		4,162.642 3	4,162.642 3	0.0506	0.3745	4,275.511 9

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1182	4.7828	1.4237	0.0208	0.7732	0.0327	0.8059	0.2227	0.0313	0.2539		2,192.240 3	2,192.240 3	7.4600e-003	0.3231	2,288.694 4
Worker	0.7433	0.3423	6.1511	0.0186	2.3412	9.5600e-003	2.3508	0.6210	8.7900e-003	0.6298		1,876.555 7	1,876.555 7	0.0391	0.0424	1,890.169 2
Total	0.8615	5.1251	7.5748	0.0393	3.1144	0.0422	3.1566	0.8437	0.0400	0.8837		4,068.796 1	4,068.796 1	0.0466	0.3655	4,178.863 6

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2029

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1182	4.7828	1.4237	0.0208	0.7732	0.0327	0.8059	0.2227	0.0313	0.2539		2,192.240 3	2,192.240 3	7.4600e-003	0.3231	2,288.694 4
Worker	0.7433	0.3423	6.1511	0.0186	2.3412	9.5600e-003	2.3508	0.6210	8.7900e-003	0.6298		1,876.555 7	1,876.555 7	0.0391	0.0424	1,890.169 2
Total	0.8615	5.1251	7.5748	0.0393	3.1144	0.0422	3.1566	0.8437	0.0400	0.8837		4,068.796 1	4,068.796 1	0.0466	0.3655	4,178.863 6

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1165	4.7616	1.4085	0.0204	0.7732	0.0325	0.8057	0.2227	0.0311	0.2537		2,153.4051	2,153.4051	7.3400e-003	0.3169	2,248.0236
Worker	0.6868	0.3123	5.8246	0.0181	2.3412	8.9300e-003	2.3501	0.6210	8.2200e-003	0.6292		1,830.8752	1,830.8752	0.0357	0.0405	1,843.8339
Total	0.8033	5.0740	7.2331	0.0385	3.1144	0.0414	3.1558	0.8437	0.0393	0.8829		3,984.2803	3,984.2803	0.0431	0.3574	4,091.8576

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2030

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1165	4.7616	1.4085	0.0204	0.7732	0.0325	0.8057	0.2227	0.0311	0.2537		2,153.4051	2,153.4051	7.3400e-003	0.3169	2,248.0236
Worker	0.6868	0.3123	5.8246	0.0181	2.3412	8.9300e-003	2.3501	0.6210	8.2200e-003	0.6292		1,830.8752	1,830.8752	0.0357	0.0405	1,843.8339
Total	0.8033	5.0740	7.2331	0.0385	3.1144	0.0414	3.1558	0.8437	0.0393	0.8829		3,984.2803	3,984.2803	0.0431	0.3574	4,091.8576

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1151	4.7481	1.3974	0.0201	0.7732	0.0323	0.8055	0.2227	0.0309	0.2536		2,119.0592	2,119.0592	7.2500e-003	0.3115	2,212.0782
Worker	0.6324	0.2864	5.5423	0.0177	2.3412	8.3500e-003	2.3496	0.6210	7.6800e-003	0.6287		1,790.0607	1,790.0607	0.0327	0.0389	1,802.4611
Total	0.7475	5.0345	6.9397	0.0378	3.1144	0.0407	3.1551	0.8437	0.0386	0.8823		3,909.1199	3,909.1199	0.0400	0.3504	4,014.5392

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2031

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1151	4.7481	1.3974	0.0201	0.7732	0.0323	0.8055	0.2227	0.0309	0.2536		2,119.0592	2,119.0592	7.2500e-003	0.3115	2,212.0782
Worker	0.6324	0.2864	5.5423	0.0177	2.3412	8.3500e-003	2.3496	0.6210	7.6800e-003	0.6287		1,790.0607	1,790.0607	0.0327	0.0389	1,802.4611
Total	0.7475	5.0345	6.9397	0.0378	3.1144	0.0407	3.1551	0.8437	0.0386	0.8823		3,909.1199	3,909.1199	0.0400	0.3504	4,014.5392

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1D P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664
Total	0.0333	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1D P - 2031

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	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664
Total	0.0333	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2031

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.1265	0.0573	1.1085	3.5400e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		358.0121	358.0121	6.5500e-003	7.7700e-003	360.4922
Total	0.1265	0.0573	1.1085	3.5400e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		358.0121	358.0121	6.5500e-003	7.7700e-003	360.4922

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2031

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.1265	0.0573	1.1085	3.5400e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		358.0121	358.0121	6.5500e-003	7.7700e-003	360.4922
Total	0.1265	0.0573	1.1085	3.5400e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		358.0121	358.0121	6.5500e-003	7.7700e-003	360.4922

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2032

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.1172	0.0531	1.0615	3.4700e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		350.7622	350.7622	6.0400e-003	7.5100e-003	353.1516
Total	0.1172	0.0531	1.0615	3.4700e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		350.7622	350.7622	6.0400e-003	7.5100e-003	353.1516

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2032

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.1172	0.0531	1.0615	3.4700e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		350.7622	350.7622	6.0400e-003	7.5100e-003	353.1516
Total	0.1172	0.0531	1.0615	3.4700e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		350.7622	350.7622	6.0400e-003	7.5100e-003	353.1516

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Free-Standing Discount store	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Free-Standing Discount store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Free-Standing Discount store	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Regional Shopping Center	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Single Family Housing	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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					
City Park	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
Free-Standing Discount store	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
Regional Shopping Center	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
Single Family Housing	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

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City Park	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
Free-Standing Discount store	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
Regional Shopping Center	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
Single Family Housing	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

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
Unmitigated	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756		24.5585	24.5585	0.0235		25.1453
Total	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756		24.5585	24.5585	0.0235		25.1453
Total	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1D Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1D Mitigated
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.30	Acre	7.30	317,988.00	0
City Park	1.40	Acre	1.40	60,984.00	0
Single Family Housing	24.00	Dwelling Unit	2.75	28,800.00	69
Single Family Housing	141.00	Dwelling Unit	23.60	211,500.00	403
Free-Standing Discount store	32.50	1000sqft	0.75	32,500.00	0
Regional Shopping Center	175.00	1000sqft	4.01	175,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2033
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (1D)

Construction Phase - Dates from modeling data document and project description (1D)

Off-road Equipment - defaults

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT study

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - in operational model

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - tier 4 engines, 15 mph speed limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	103750	0
tblAreaCoating	Area_Nonresidential_Interior	311250	0
tblAreaCoating	Area_Residential_Exterior	162203	0
tblAreaCoating	Area_Residential_Interior	486608	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	37.00
tblConstructionPhase	NumDays	75.00	102.00
tblConstructionPhase	NumDays	740.00	1,027.00
tblConstructionPhase	NumDays	55.00	69.00
tblConstructionPhase	NumDays	55.00	69.00

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	90.75	0.00
tblFireplaces	NumberNoFireplace	74.25	0.00
tblGrading	AcresOfGrading	306.00	45.00
tblGrading	AcresOfGrading	55.50	45.00
tblLandUse	LandUseSquareFeet	253,800.00	211,500.00
tblLandUse	LandUseSquareFeet	43,200.00	28,800.00
tblLandUse	LotAcreage	45.78	23.60
tblLandUse	LotAcreage	7.79	2.75
tblLandUse	LotAcreage	4.02	4.01
tblSolidWaste	SolidWasteGenerationRate	0.75	0.00
tblSolidWaste	SolidWasteGenerationRate	139.77	0.00

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	183.75	0.00
tblSolidWaste	SolidWasteGenerationRate	169.92	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	70.76	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	60.21	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	53.12	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,407,356.95	0.00
tblWater	IndoorWaterUseRate	12,962,691.26	0.00
tblWater	IndoorWaterUseRate	10,750,414.23	0.00
tblWater	OutdoorWaterUseRate	10,365,887.74	0.00
tblWater	OutdoorWaterUseRate	1,475,476.84	0.00
tblWater	OutdoorWaterUseRate	7,944,875.29	0.00
tblWater	OutdoorWaterUseRate	6,777,435.06	0.00
tblWoodstoves	NumberCatalytic	26.35	0.00
tblWoodstoves	NumberNoncatalytic	26.35	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2027	2.9558	27.9777	26.7549	0.0662	19.5039	1.1317	20.5914	10.1092	1.0411	11.1097	0.0000	6,615.7321	6,615.7321	1.9469	0.3909	6,748.7498
2028	2.2006	18.0609	23.2393	0.0652	3.1144	0.5708	3.6852	0.8437	0.5373	1.3809	0.0000	6,520.8860	6,520.8860	0.6563	0.3808	6,650.7616
2029	2.1457	17.9878	22.8990	0.0644	3.1144	0.5699	3.6843	0.8437	0.5364	1.3801	0.0000	6,432.5248	6,432.5248	0.6520	0.3714	6,559.4978
2030	2.0359	13.3943	22.6839	0.0676	3.1144	0.1896	3.3040	0.8437	0.1875	1.0312	0.0000	6,693.9344	6,693.9344	0.1635	0.3631	6,806.2137
2031	35.9750	13.3489	22.4363	0.0669	3.1144	0.3311	3.3033	0.8437	0.3310	1.0305	0.0000	6,623.0629	6,623.0629	0.1602	0.3559	6,733.1107
2032	35.9668	0.9190	2.7249	6.0800e-003	0.4682	0.0219	0.4901	0.1242	0.0217	0.1460	0.0000	595.3859	595.3859	0.0182	8.3800e-003	598.3408
Maximum	35.9750	27.9777	26.7549	0.0676	19.5039	1.1317	20.5914	10.1092	1.0411	11.1097	0.0000	6,693.9344	6,693.9344	1.9469	0.3909	6,806.2137

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
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
Total	10.0105	0.1567	13.5987	7.2000e-004	0.0000	0.0756	0.0756	0.0000	0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

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	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
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
Total	10.0105	0.1567	13.5987	7.2000e-004	0.0000	0.0756	0.0756	0.0000	0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1D SP	Site Preparation	4/1/2027	5/21/2027	5	37	
2	1D G	Grading	5/22/2027	10/12/2027	5	102	
3	1D BC	Building Construction	10/13/2027	9/18/2031	5	1027	
4	1D P	Paving	9/19/2031	12/24/2031	5	69	
5	1D AC	Architectural Coating	12/25/2031	3/30/2032	5	69	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 486,608; Residential Outdoor: 162,203; Non-Residential Indoor: 311,250; Non-Residential Outdoor: 103,750; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1D SP	Rubber Tired Dozers	3	8.00	247	0.40
1D SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1D G	Excavators	2	8.00	158	0.38
1D G	Graders	1	8.00	187	0.41
1D G	Rubber Tired Dozers	1	8.00	247	0.40
1D G	Scrapers	2	8.00	367	0.48

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1D G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1D BC	Cranes	1	7.00	231	0.29
1D BC	Forklifts	3	8.00	89	0.20
1D BC	Generator Sets	1	8.00	84	0.74
1D BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1D BC	Welders	1	8.00	46	0.45
1D P	Pavers	2	8.00	130	0.42
1D P	Paving Equipment	2	8.00	132	0.36
1D P	Rollers	2	8.00	80	0.38
1D AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1D SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D BC	9	285.00	114.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D AC	1	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1D SP - 2027

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					19.3561	0.0000	19.3561	10.0700	0.0000	10.0700			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.3561	1.0868	20.4429	10.0700	0.9999	11.0698		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937
Total	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1D SP - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7102	0.0000	8.7102	4.5315	0.0000	4.5315			0.0000			0.0000
Off-Road	0.5108	2.5793	20.8150	0.0381		0.0856	0.0856		0.0835	0.0835	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.5108	2.5793	20.8150	0.0381	8.7102	0.0856	8.7958	4.5315	0.0835	4.6150	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937
Total	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1D G - 2027

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					6.4900	0.0000	6.4900	3.3608	0.0000	3.3608			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.4900	1.1309	7.6208	3.3608	1.0404	4.4012		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708
Total	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1D G - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9205	0.0000	2.9205	1.5123	0.0000	1.5123			0.0000			0.0000
Off-Road	0.7841	3.5810	32.9722	0.0621		0.1133	0.1133		0.1123	0.1123	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7841	3.5810	32.9722	0.0621	2.9205	0.1133	3.0338	1.5123	0.1123	1.6246	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708
Total	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1145	5.1728	1.5132	0.0216	0.7732	0.0333	0.8065	0.2227	0.0318	0.2545		2,284.142 0	2,284.142 0	7.4200e- 003	0.3379	2,385.018 0
Worker	0.7780	0.4964	6.0390	0.0176	2.3412	0.0109	2.3521	0.6210	0.0100	0.6310		1,775.115 7	1,775.115 7	0.0529	0.0530	1,792.233 8
Total	0.8925	5.6692	7.5522	0.0392	3.1144	0.0442	3.1586	0.8437	0.0419	0.8855		4,059.257 7	4,059.257 7	0.0603	0.3909	4,177.251 7

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2027

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1145	5.1728	1.5132	0.0216	0.7732	0.0333	0.8065	0.2227	0.0318	0.2545		2,284.142 0	2,284.142 0	7.4200e- 003	0.3379	2,385.018 0
Worker	0.7780	0.4964	6.0390	0.0176	2.3412	0.0109	2.3521	0.6210	0.0100	0.6310		1,775.115 7	1,775.115 7	0.0529	0.0530	1,792.233 8
Total	0.8925	5.6692	7.5522	0.0392	3.1144	0.0442	3.1586	0.8437	0.0419	0.8855		4,059.257 7	4,059.257 7	0.0603	0.3909	4,177.251 7

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1122	5.1446	1.4907	0.0212	0.7732	0.0330	0.8062	0.2227	0.0316	0.2543		2,239.669 0	2,239.669 0	7.2400e- 003	0.3308	2,338.433 1
Worker	0.7210	0.4466	5.6639	0.0171	2.3412	0.0102	2.3514	0.6210	9.4100e- 003	0.6304		1,724.742 6	1,724.742 6	0.0481	0.0500	1,740.830 5
Total	0.8332	5.5912	7.1546	0.0383	3.1144	0.0432	3.1577	0.8437	0.0410	0.8847		3,964.411 6	3,964.411 6	0.0553	0.3808	4,079.263 5

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2028

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1122	5.1446	1.4907	0.0212	0.7732	0.0330	0.8062	0.2227	0.0316	0.2543		2,239.669 0	2,239.669 0	7.2400e- 003	0.3308	2,338.433 1
Worker	0.7210	0.4466	5.6639	0.0171	2.3412	0.0102	2.3514	0.6210	9.4100e- 003	0.6304		1,724.742 6	1,724.742 6	0.0481	0.0500	1,740.830 5
Total	0.8332	5.5912	7.1546	0.0383	3.1144	0.0432	3.1577	0.8437	0.0410	0.8847		3,964.411 6	3,964.411 6	0.0553	0.3808	4,079.263 5

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1102	5.1134	1.4724	0.0208	0.7732	0.0328	0.8060	0.2227	0.0313	0.2540		2,196.720 4	2,196.720 4	7.1000e-003	0.3240	2,293.450 1
Worker	0.6681	0.4047	5.3420	0.0166	2.3412	9.5600e-003	2.3508	0.6210	8.7900e-003	0.6298		1,679.330 1	1,679.330 1	0.0439	0.0474	1,694.549 6
Total	0.7783	5.5182	6.8143	0.0374	3.1144	0.0423	3.1567	0.8437	0.0401	0.8838		3,876.050 5	3,876.050 5	0.0510	0.3714	3,987.999 7

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2029

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	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	2.9415	17.5796	0.0270		0.0942	0.0942		0.0928	0.0928	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1102	5.1134	1.4724	0.0208	0.7732	0.0328	0.8060	0.2227	0.0313	0.2540		2,196.720 4	2,196.720 4	7.1000e-003	0.3240	2,293.450 1
Worker	0.6681	0.4047	5.3420	0.0166	2.3412	9.5600e-003	2.3508	0.6210	8.7900e-003	0.6298		1,679.330 1	1,679.330 1	0.0439	0.0474	1,694.549 6
Total	0.7783	5.5182	6.8143	0.0374	3.1144	0.0423	3.1567	0.8437	0.0401	0.8838		3,876.050 5	3,876.050 5	0.0510	0.3714	3,987.999 7

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1085	5.0906	1.4571	0.0204	0.7732	0.0326	0.8058	0.2227	0.0311	0.2538		2,157.8147	2,157.8147	6.9900e-003	0.3178	2,252.7025
Worker	0.6183	0.3691	5.0699	0.0162	2.3412	8.9300e-003	2.3501	0.6210	8.2200e-003	0.6292		1,638.5729	1,638.5729	0.0403	0.0452	1,653.0583
Total	0.7268	5.4597	6.5269	0.0367	3.1144	0.0415	3.1559	0.8437	0.0394	0.8830		3,796.3876	3,796.3876	0.0473	0.3631	3,905.7609

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2030

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1085	5.0906	1.4571	0.0204	0.7732	0.0326	0.8058	0.2227	0.0311	0.2538		2,157.8147	2,157.8147	6.9900e-003	0.3178	2,252.7025
Worker	0.6183	0.3691	5.0699	0.0162	2.3412	8.9300e-003	2.3501	0.6210	8.2200e-003	0.6292		1,638.5729	1,638.5729	0.0403	0.0452	1,653.0583
Total	0.7268	5.4597	6.5269	0.0367	3.1144	0.0415	3.1559	0.8437	0.0394	0.8830		3,796.3876	3,796.3876	0.0473	0.3631	3,905.7609

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1070	5.0761	1.4459	0.0201	0.7732	0.0324	0.8056	0.2227	0.0310	0.2537		2,123.4096	2,123.4096	6.9000e-003	0.3125	2,216.6925
Worker	0.5703	0.3382	4.8335	0.0159	2.3412	8.3500e-003	2.3496	0.6210	7.6800e-003	0.6287		1,602.1065	1,602.1065	0.0371	0.0434	1,615.9653
Total	0.6773	5.4143	6.2793	0.0360	3.1144	0.0408	3.1552	0.8437	0.0387	0.8823		3,725.5161	3,725.5161	0.0440	0.3559	3,832.6578

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2031

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1070	5.0761	1.4459	0.0201	0.7732	0.0324	0.8056	0.2227	0.0310	0.2537		2,123.4096	2,123.4096	6.9000e-003	0.3125	2,216.6925
Worker	0.5703	0.3382	4.8335	0.0159	2.3412	8.3500e-003	2.3496	0.6210	7.6800e-003	0.6287		1,602.1065	1,602.1065	0.0371	0.0434	1,615.9653
Total	0.6773	5.4143	6.2793	0.0360	3.1144	0.0408	3.1552	0.8437	0.0387	0.8823		3,725.5161	3,725.5161	0.0440	0.3559	3,832.6578

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1D P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508
Total	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1D P - 2031

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	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508
Total	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2031

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.1141	0.0676	0.9667	3.1700e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		320.4213	320.4213	7.4100e-003	8.6800e-003	323.1931
Total	0.1141	0.0676	0.9667	3.1700e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		320.4213	320.4213	7.4100e-003	8.6800e-003	323.1931

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2031

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.1141	0.0676	0.9667	3.1700e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		320.4213	320.4213	7.4100e-003	8.6800e-003	323.1931
Total	0.1141	0.0676	0.9667	3.1700e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		320.4213	320.4213	7.4100e-003	8.6800e-003	323.1931

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2032

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.1059	0.0627	0.9271	3.1100e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		313.9379	313.9379	6.8500e-003	8.3800e-003	316.6079
Total	0.1059	0.0627	0.9271	3.1100e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		313.9379	313.9379	6.8500e-003	8.3800e-003	316.6079

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2032

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.1059	0.0627	0.9271	3.1100e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		313.9379	313.9379	6.8500e-003	8.3800e-003	316.6079
Total	0.1059	0.0627	0.9271	3.1100e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		313.9379	313.9379	6.8500e-003	8.3800e-003	316.6079

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Free-Standing Discount store	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Free-Standing Discount store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Free-Standing Discount store	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Regional Shopping Center	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Single Family Housing	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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					
City Park	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
Free-Standing Discount store	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
Regional Shopping Center	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
Single Family Housing	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

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City Park	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
Free-Standing Discount store	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
Regional Shopping Center	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
Single Family Housing	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

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
Unmitigated	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756		24.5585	24.5585	0.0235		25.1453
Total	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756		24.5585	24.5585	0.0235		25.1453
Total	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1D Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_1D Unmitigated

Merced County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.30	Acre	7.30	317,988.00	0
City Park	1.40	Acre	1.40	60,984.00	0
Single Family Housing	24.00	Dwelling Unit	2.75	28,800.00	69
Single Family Housing	141.00	Dwelling Unit	23.60	211,500.00	403
Free-Standing Discount store	32.50	1000sqft	0.75	32,500.00	0
Regional Shopping Center	175.00	1000sqft	4.01	175,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2033
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (1D)

Construction Phase - Dates from modeling data document and project description (1D)

Off-road Equipment - defaults

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT study

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - in operational model

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - tier 4 engines, 15 mph speed limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	103750	0
tblAreaCoating	Area_Nonresidential_Interior	311250	0
tblAreaCoating	Area_Residential_Exterior	162203	0
tblAreaCoating	Area_Residential_Interior	486608	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	37.00
tblConstructionPhase	NumDays	75.00	102.00
tblConstructionPhase	NumDays	740.00	1,027.00
tblConstructionPhase	NumDays	55.00	69.00
tblConstructionPhase	NumDays	55.00	69.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	90.75	0.00
tblFireplaces	NumberNoFireplace	74.25	0.00
tblGrading	AcresOfGrading	306.00	45.00
tblGrading	AcresOfGrading	55.50	45.00
tblLandUse	LandUseSquareFeet	253,800.00	211,500.00

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	43,200.00	28,800.00
tblLandUse	LotAcreage	45.78	23.60
tblLandUse	LotAcreage	7.79	2.75
tblLandUse	LotAcreage	4.02	4.01
tblSolidWaste	SolidWasteGenerationRate	0.75	0.00
tblSolidWaste	SolidWasteGenerationRate	139.77	0.00
tblSolidWaste	SolidWasteGenerationRate	183.75	0.00
tblSolidWaste	SolidWasteGenerationRate	169.92	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	70.76	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	60.21	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	53.12	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,407,356.95	0.00
tblWater	IndoorWaterUseRate	12,962,691.26	0.00
tblWater	IndoorWaterUseRate	10,750,414.23	0.00
tblWater	OutdoorWaterUseRate	10,365,887.74	0.00
tblWater	OutdoorWaterUseRate	1,475,476.84	0.00
tblWater	OutdoorWaterUseRate	7,944,875.29	0.00
tblWater	OutdoorWaterUseRate	6,777,435.06	0.00
tblWoodstoves	NumberCatalytic	26.35	0.00
tblWoodstoves	NumberNoncatalytic	26.35	0.00

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	2.9621	27.9723	26.8218	0.0682	19.5039	1.1317	20.5914	10.1092	1.0411	11.1097	0.0000	6,820.1508	6,820.1508	1.9465	0.3843	6,951.0678
2028	2.2908	17.6591	24.0645	0.0672	3.1144	0.5707	3.6851	0.8437	0.5372	1.3808	0.0000	6,719.1166	6,719.1166	0.6515	0.3745	6,847.0100
2029	2.2289	17.5948	23.6595	0.0663	3.1144	0.5698	3.6842	0.8437	0.5363	1.3800	0.0000	6,625.2704	6,625.2704	0.6475	0.3655	6,750.3617
2030	2.1124	13.0086	23.3901	0.0695	3.1144	0.1895	3.3040	0.8437	0.1874	1.0311	0.0000	6,881.8271	6,881.8271	0.1593	0.3574	6,992.3104
2031	35.9874	12.9691	23.0967	0.0688	3.1144	0.3311	3.3032	0.8437	0.3310	1.0304	0.0000	6,806.6667	6,806.6667	0.1562	0.3504	6,914.9921
2032	35.9781	0.9094	2.8592	6.4400e-003	0.4682	0.0219	0.4901	0.1242	0.0217	0.1460	0.0000	632.2102	632.2102	0.0174	7.5100e-003	634.8844
Maximum	35.9874	27.9723	26.8218	0.0695	19.5039	1.1317	20.5914	10.1092	1.0411	11.1097	0.0000	6,881.8271	6,881.8271	1.9465	0.3843	6,992.3104

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
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
Total	10.0105	0.1567	13.5987	7.2000e-004	0.0000	0.0756	0.0756	0.0000	0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

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	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
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
Total	10.0105	0.1567	13.5987	7.2000e-004	0.0000	0.0756	0.0756	0.0000	0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1D SP	Site Preparation	4/1/2027	5/21/2027	5	37	
2	1D G	Grading	5/22/2027	10/12/2027	5	102	
3	1D BC	Building Construction	10/13/2027	9/18/2031	5	1027	
4	1D P	Paving	9/19/2031	12/24/2031	5	69	
5	1D AC	Architectural Coating	12/25/2031	3/30/2032	5	69	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 486,608; Residential Outdoor: 162,203; Non-Residential Indoor: 311,250; Non-Residential Outdoor: 103,750; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1D SP	Rubber Tired Dozers	3	8.00	247	0.40
1D SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1D G	Excavators	2	8.00	158	0.38
1D G	Graders	1	8.00	187	0.41
1D G	Rubber Tired Dozers	1	8.00	247	0.40
1D G	Scrapers	2	8.00	367	0.48

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1D G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1D BC	Cranes	1	7.00	231	0.29
1D BC	Forklifts	3	8.00	89	0.20
1D BC	Generator Sets	1	8.00	84	0.74
1D BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1D BC	Welders	1	8.00	46	0.45
1D P	Pavers	2	8.00	130	0.42
1D P	Paving Equipment	2	8.00	132	0.36
1D P	Rollers	2	8.00	80	0.38
1D AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1D SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D BC	9	285.00	114.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D AC	1	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1D SP - 2027

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					19.3561	0.0000	19.3561	10.0700	0.0000	10.0700			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.3561	1.0868	20.4429	10.0700	0.9999	11.0698		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827
Total	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1D SP - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7102	0.0000	8.7102	4.5315	0.0000	4.5315			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	8.7102	1.0868	9.7970	4.5315	0.9999	5.5313	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827
Total	0.0548	0.0265	0.4416	1.2400e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		125.3158	125.3158	3.0000e-003	2.9900e-003	126.2827

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1D G - 2027

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					6.4900	0.0000	6.4900	3.3608	0.0000	3.3608			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.4900	1.1309	7.6208	3.3608	1.0404	4.4012		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141
Total	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1D G - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9205	0.0000	2.9205	1.5123	0.0000	1.5123			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	2.9205	1.1309	4.0514	1.5123	1.0404	2.5528	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141
Total	0.0609	0.0294	0.4907	1.3800e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		139.2398	139.2398	3.3300e-003	3.3300e-003	140.3141

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1226	4.8380	1.4642	0.0216	0.7732	0.0332	0.8064	0.2227	0.0317	0.2544		2,279.509 6	2,279.509 6	7.7800e- 003	0.3369	2,380.094 0
Worker	0.8677	0.4195	6.9919	0.0196	2.3412	0.0109	2.3521	0.6210	0.0100	0.6310		1,984.166 8	1,984.166 8	0.0475	0.0474	1,999.475 8
Total	0.9903	5.2574	8.4561	0.0412	3.1144	0.0441	3.1585	0.8437	0.0418	0.8854		4,263.676 4	4,263.676 4	0.0552	0.3843	4,379.569 8

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1226	4.8380	1.4642	0.0216	0.7732	0.0332	0.8064	0.2227	0.0317	0.2544		2,279.509 6	2,279.509 6	7.7800e- 003	0.3369	2,380.094 0
Worker	0.8677	0.4195	6.9919	0.0196	2.3412	0.0109	2.3521	0.6210	0.0100	0.6310		1,984.166 8	1,984.166 8	0.0475	0.0474	1,999.475 8
Total	0.9903	5.2574	8.4561	0.0412	3.1144	0.0441	3.1585	0.8437	0.0418	0.8854		4,263.676 4	4,263.676 4	0.0552	0.3843	4,379.569 8

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1202	4.8118	1.4419	0.0212	0.7732	0.0329	0.8061	0.2227	0.0315	0.2542		2,235.112 0	2,235.112 0	7.6000e-003	0.3298	2,333.593 0
Worker	0.8032	0.3776	6.5380	0.0191	2.3412	0.0102	2.3514	0.6210	9.4100e-003	0.6304		1,927.530 2	1,927.530 2	0.0430	0.0447	1,941.918 9
Total	0.9234	5.1894	7.9799	0.0402	3.1144	0.0432	3.1576	0.8437	0.0409	0.8846		4,162.642 3	4,162.642 3	0.0506	0.3745	4,275.511 9

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1202	4.8118	1.4419	0.0212	0.7732	0.0329	0.8061	0.2227	0.0315	0.2542		2,235.112 0	2,235.112 0	7.6000e-003	0.3298	2,333.593 0
Worker	0.8032	0.3776	6.5380	0.0191	2.3412	0.0102	2.3514	0.6210	9.4100e-003	0.6304		1,927.530 2	1,927.530 2	0.0430	0.0447	1,941.918 9
Total	0.9234	5.1894	7.9799	0.0402	3.1144	0.0432	3.1576	0.8437	0.0409	0.8846		4,162.642 3	4,162.642 3	0.0506	0.3745	4,275.511 9

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1182	4.7828	1.4237	0.0208	0.7732	0.0327	0.8059	0.2227	0.0313	0.2539		2,192.240 3	2,192.240 3	7.4600e-003	0.3231	2,288.694 4
Worker	0.7433	0.3423	6.1511	0.0186	2.3412	9.5600e-003	2.3508	0.6210	8.7900e-003	0.6298		1,876.555 7	1,876.555 7	0.0391	0.0424	1,890.169 2
Total	0.8615	5.1251	7.5748	0.0393	3.1144	0.0422	3.1566	0.8437	0.0400	0.8837		4,068.796 1	4,068.796 1	0.0466	0.3655	4,178.863 6

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1182	4.7828	1.4237	0.0208	0.7732	0.0327	0.8059	0.2227	0.0313	0.2539		2,192.240 3	2,192.240 3	7.4600e-003	0.3231	2,288.694 4
Worker	0.7433	0.3423	6.1511	0.0186	2.3412	9.5600e-003	2.3508	0.6210	8.7900e-003	0.6298		1,876.555 7	1,876.555 7	0.0391	0.0424	1,890.169 2
Total	0.8615	5.1251	7.5748	0.0393	3.1144	0.0422	3.1566	0.8437	0.0400	0.8837		4,068.796 1	4,068.796 1	0.0466	0.3655	4,178.863 6

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1165	4.7616	1.4085	0.0204	0.7732	0.0325	0.8057	0.2227	0.0311	0.2537		2,153.4051	2,153.4051	7.3400e-003	0.3169	2,248.0236
Worker	0.6868	0.3123	5.8246	0.0181	2.3412	8.9300e-003	2.3501	0.6210	8.2200e-003	0.6292		1,830.8752	1,830.8752	0.0357	0.0405	1,843.8339
Total	0.8033	5.0740	7.2331	0.0385	3.1144	0.0414	3.1558	0.8437	0.0393	0.8829		3,984.2803	3,984.2803	0.0431	0.3574	4,091.8576

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1165	4.7616	1.4085	0.0204	0.7732	0.0325	0.8057	0.2227	0.0311	0.2537		2,153.4051	2,153.4051	7.3400e-003	0.3169	2,248.0236
Worker	0.6868	0.3123	5.8246	0.0181	2.3412	8.9300e-003	2.3501	0.6210	8.2200e-003	0.6292		1,830.8752	1,830.8752	0.0357	0.0405	1,843.8339
Total	0.8033	5.0740	7.2331	0.0385	3.1144	0.0414	3.1558	0.8437	0.0393	0.8829		3,984.2803	3,984.2803	0.0431	0.3574	4,091.8576

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1151	4.7481	1.3974	0.0201	0.7732	0.0323	0.8055	0.2227	0.0309	0.2536		2,119.0592	2,119.0592	7.2500e-003	0.3115	2,212.0782
Worker	0.6324	0.2864	5.5423	0.0177	2.3412	8.3500e-003	2.3496	0.6210	7.6800e-003	0.6287		1,790.0607	1,790.0607	0.0327	0.0389	1,802.4611
Total	0.7475	5.0345	6.9397	0.0378	3.1144	0.0407	3.1551	0.8437	0.0386	0.8823		3,909.1199	3,909.1199	0.0400	0.3504	4,014.5392

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1151	4.7481	1.3974	0.0201	0.7732	0.0323	0.8055	0.2227	0.0309	0.2536		2,119.0592	2,119.0592	7.2500e-003	0.3115	2,212.0782
Worker	0.6324	0.2864	5.5423	0.0177	2.3412	8.3500e-003	2.3496	0.6210	7.6800e-003	0.6287		1,790.0607	1,790.0607	0.0327	0.0389	1,802.4611
Total	0.7475	5.0345	6.9397	0.0378	3.1144	0.0407	3.1551	0.8437	0.0386	0.8823		3,909.1199	3,909.1199	0.0400	0.3504	4,014.5392

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1D P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664
Total	0.0333	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1D P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664
Total	0.0333	0.0151	0.2917	9.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		94.2137	94.2137	1.7200e-003	2.0500e-003	94.8664

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2031

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.1265	0.0573	1.1085	3.5400e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		358.0121	358.0121	6.5500e-003	7.7700e-003	360.4922
Total	0.1265	0.0573	1.1085	3.5400e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		358.0121	358.0121	6.5500e-003	7.7700e-003	360.4922

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2031

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.1265	0.0573	1.1085	3.5400e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		358.0121	358.0121	6.5500e-003	7.7700e-003	360.4922
Total	0.1265	0.0573	1.1085	3.5400e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		358.0121	358.0121	6.5500e-003	7.7700e-003	360.4922

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2032

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.1172	0.0531	1.0615	3.4700e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		350.7622	350.7622	6.0400e-003	7.5100e-003	353.1516
Total	0.1172	0.0531	1.0615	3.4700e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		350.7622	350.7622	6.0400e-003	7.5100e-003	353.1516

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2032

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.1172	0.0531	1.0615	3.4700e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		350.7622	350.7622	6.0400e-003	7.5100e-003	353.1516
Total	0.1172	0.0531	1.0615	3.4700e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		350.7622	350.7622	6.0400e-003	7.5100e-003	353.1516

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Free-Standing Discount store	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Free-Standing Discount store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Free-Standing Discount store	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Regional Shopping Center	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Single Family Housing	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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					
City Park	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
Free-Standing Discount store	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
Regional Shopping Center	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
Single Family Housing	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

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City Park	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
Free-Standing Discount store	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
Regional Shopping Center	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
Single Family Housing	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

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
Unmitigated	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756		24.5585	24.5585	0.0235		25.1453
Total	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756		24.5585	24.5585	0.0235		25.1453
Total	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1D Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1D Unmitigated
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.30	Acre	7.30	317,988.00	0
City Park	1.40	Acre	1.40	60,984.00	0
Single Family Housing	24.00	Dwelling Unit	2.75	28,800.00	69
Single Family Housing	141.00	Dwelling Unit	23.60	211,500.00	403
Free-Standing Discount store	32.50	1000sqft	0.75	32,500.00	0
Regional Shopping Center	175.00	1000sqft	4.01	175,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2033
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEmod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data (1D)
- Construction Phase - Dates from modeling data document and project description (1D)
- Off-road Equipment - defaults
- Trips and VMT - defaults
- Grading - Acreage is the total acreage from that phase

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT study

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - in operational model

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - tier 4 engines, 15 mph speed limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	103750	0
tblAreaCoating	Area_Nonresidential_Interior	311250	0
tblAreaCoating	Area_Residential_Exterior	162203	0
tblAreaCoating	Area_Residential_Interior	486608	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	37.00
tblConstructionPhase	NumDays	75.00	102.00
tblConstructionPhase	NumDays	740.00	1,027.00
tblConstructionPhase	NumDays	55.00	69.00
tblConstructionPhase	NumDays	55.00	69.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	90.75	0.00
tblFireplaces	NumberNoFireplace	74.25	0.00
tblGrading	AcresOfGrading	306.00	45.00
tblGrading	AcresOfGrading	55.50	45.00
tblLandUse	LandUseSquareFeet	253,800.00	211,500.00

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	43,200.00	28,800.00
tblLandUse	LotAcreage	45.78	23.60
tblLandUse	LotAcreage	7.79	2.75
tblLandUse	LotAcreage	4.02	4.01
tblSolidWaste	SolidWasteGenerationRate	0.75	0.00
tblSolidWaste	SolidWasteGenerationRate	139.77	0.00
tblSolidWaste	SolidWasteGenerationRate	183.75	0.00
tblSolidWaste	SolidWasteGenerationRate	169.92	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	70.76	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	60.21	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	53.12	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,407,356.95	0.00
tblWater	IndoorWaterUseRate	12,962,691.26	0.00
tblWater	IndoorWaterUseRate	10,750,414.23	0.00
tblWater	OutdoorWaterUseRate	10,365,887.74	0.00
tblWater	OutdoorWaterUseRate	1,475,476.84	0.00
tblWater	OutdoorWaterUseRate	7,944,875.29	0.00
tblWater	OutdoorWaterUseRate	6,777,435.06	0.00
tblWoodstoves	NumberCatalytic	26.35	0.00
tblWoodstoves	NumberNoncatalytic	26.35	0.00

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	2.9558	27.9777	26.7549	0.0662	19.5039	1.1317	20.5914	10.1092	1.0411	11.1097	0.0000	6,615.7321	6,615.7321	1.9469	0.3909	6,748.7498
2028	2.2006	18.0609	23.2393	0.0652	3.1144	0.5708	3.6852	0.8437	0.5373	1.3809	0.0000	6,520.8860	6,520.8860	0.6563	0.3808	6,650.7616
2029	2.1457	17.9878	22.8990	0.0644	3.1144	0.5699	3.6843	0.8437	0.5364	1.3801	0.0000	6,432.5248	6,432.5248	0.6520	0.3714	6,559.4978
2030	2.0359	13.3943	22.6839	0.0676	3.1144	0.1896	3.3040	0.8437	0.1875	1.0312	0.0000	6,693.9344	6,693.9344	0.1635	0.3631	6,806.2137
2031	35.9750	13.3489	22.4363	0.0669	3.1144	0.3311	3.3033	0.8437	0.3310	1.0305	0.0000	6,623.0629	6,623.0629	0.1602	0.3559	6,733.1107
2032	35.9668	0.9190	2.7249	6.0800e-003	0.4682	0.0219	0.4901	0.1242	0.0217	0.1460	0.0000	595.3859	595.3859	0.0182	8.3800e-003	598.3408
Maximum	35.9750	27.9777	26.7549	0.0676	19.5039	1.1317	20.5914	10.1092	1.0411	11.1097	0.0000	6,693.9344	6,693.9344	1.9469	0.3909	6,806.2137

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
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
Total	10.0105	0.1567	13.5987	7.2000e-004	0.0000	0.0756	0.0756	0.0000	0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

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	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
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
Total	10.0105	0.1567	13.5987	7.2000e-004	0.0000	0.0756	0.0756	0.0000	0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1D SP	Site Preparation	4/1/2027	5/21/2027	5	37	
2	1D G	Grading	5/22/2027	10/12/2027	5	102	
3	1D BC	Building Construction	10/13/2027	9/18/2031	5	1027	
4	1D P	Paving	9/19/2031	12/24/2031	5	69	
5	1D AC	Architectural Coating	12/25/2031	3/30/2032	5	69	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 486,608; Residential Outdoor: 162,203; Non-Residential Indoor: 311,250; Non-Residential Outdoor: 103,750; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1D SP	Rubber Tired Dozers	3	8.00	247	0.40
1D SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1D G	Excavators	2	8.00	158	0.38
1D G	Graders	1	8.00	187	0.41
1D G	Rubber Tired Dozers	1	8.00	247	0.40
1D G	Scrapers	2	8.00	367	0.48

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1D G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1D BC	Cranes	1	7.00	231	0.29
1D BC	Forklifts	3	8.00	89	0.20
1D BC	Generator Sets	1	8.00	84	0.74
1D BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1D BC	Welders	1	8.00	46	0.45
1D P	Pavers	2	8.00	130	0.42
1D P	Paving Equipment	2	8.00	132	0.36
1D P	Rollers	2	8.00	80	0.38
1D AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1D SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D BC	9	285.00	114.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1D AC	1	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1D SP - 2027

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					19.3561	0.0000	19.3561	10.0700	0.0000	10.0700			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.3561	1.0868	20.4429	10.0700	0.9999	11.0698		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937
Total	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1D SP - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7102	0.0000	8.7102	4.5315	0.0000	4.5315			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	8.7102	1.0868	9.7970	4.5315	0.9999	5.5313	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937
Total	0.0491	0.0314	0.3814	1.1100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.3000e-004	0.0399		112.1126	112.1126	3.3400e-003	3.3500e-003	113.1937

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1D G - 2027

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					6.4900	0.0000	6.4900	3.3608	0.0000	3.3608			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.4900	1.1309	7.6208	3.3608	1.0404	4.4012		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708
Total	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1D G - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9205	0.0000	2.9205	1.5123	0.0000	1.5123			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	2.9205	1.1309	4.0514	1.5123	1.0404	2.5528	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

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	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708
Total	0.0546	0.0348	0.4238	1.2300e-003	0.1643	7.7000e-004	0.1651	0.0436	7.0000e-004	0.0443		124.5695	124.5695	3.7100e-003	3.7200e-003	125.7708

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1145	5.1728	1.5132	0.0216	0.7732	0.0333	0.8065	0.2227	0.0318	0.2545		2,284.142 0	2,284.142 0	7.4200e- 003	0.3379	2,385.018 0
Worker	0.7780	0.4964	6.0390	0.0176	2.3412	0.0109	2.3521	0.6210	0.0100	0.6310		1,775.115 7	1,775.115 7	0.0529	0.0530	1,792.233 8
Total	0.8925	5.6692	7.5522	0.0392	3.1144	0.0442	3.1586	0.8437	0.0419	0.8855		4,059.257 7	4,059.257 7	0.0603	0.3909	4,177.251 7

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1145	5.1728	1.5132	0.0216	0.7732	0.0333	0.8065	0.2227	0.0318	0.2545		2,284.142 0	2,284.142 0	7.4200e- 003	0.3379	2,385.018 0
Worker	0.7780	0.4964	6.0390	0.0176	2.3412	0.0109	2.3521	0.6210	0.0100	0.6310		1,775.115 7	1,775.115 7	0.0529	0.0530	1,792.233 8
Total	0.8925	5.6692	7.5522	0.0392	3.1144	0.0442	3.1586	0.8437	0.0419	0.8855		4,059.257 7	4,059.257 7	0.0603	0.3909	4,177.251 7

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1122	5.1446	1.4907	0.0212	0.7732	0.0330	0.8062	0.2227	0.0316	0.2543		2,239.669 0	2,239.669 0	7.2400e- 003	0.3308	2,338.433 1
Worker	0.7210	0.4466	5.6639	0.0171	2.3412	0.0102	2.3514	0.6210	9.4100e- 003	0.6304		1,724.742 6	1,724.742 6	0.0481	0.0500	1,740.830 5
Total	0.8332	5.5912	7.1546	0.0383	3.1144	0.0432	3.1577	0.8437	0.0410	0.8847		3,964.411 6	3,964.411 6	0.0553	0.3808	4,079.263 5

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1122	5.1446	1.4907	0.0212	0.7732	0.0330	0.8062	0.2227	0.0316	0.2543		2,239.669 0	2,239.669 0	7.2400e- 003	0.3308	2,338.433 1
Worker	0.7210	0.4466	5.6639	0.0171	2.3412	0.0102	2.3514	0.6210	9.4100e- 003	0.6304		1,724.742 6	1,724.742 6	0.0481	0.0500	1,740.830 5
Total	0.8332	5.5912	7.1546	0.0383	3.1144	0.0432	3.1577	0.8437	0.0410	0.8847		3,964.411 6	3,964.411 6	0.0553	0.3808	4,079.263 5

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1102	5.1134	1.4724	0.0208	0.7732	0.0328	0.8060	0.2227	0.0313	0.2540		2,196.720 4	2,196.720 4	7.1000e-003	0.3240	2,293.450 1
Worker	0.6681	0.4047	5.3420	0.0166	2.3412	9.5600e-003	2.3508	0.6210	8.7900e-003	0.6298		1,679.330 1	1,679.330 1	0.0439	0.0474	1,694.549 6
Total	0.7783	5.5182	6.8143	0.0374	3.1144	0.0423	3.1567	0.8437	0.0401	0.8838		3,876.050 5	3,876.050 5	0.0510	0.3714	3,987.999 7

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2029

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1102	5.1134	1.4724	0.0208	0.7732	0.0328	0.8060	0.2227	0.0313	0.2540		2,196.720 4	2,196.720 4	7.1000e-003	0.3240	2,293.450 1
Worker	0.6681	0.4047	5.3420	0.0166	2.3412	9.5600e-003	2.3508	0.6210	8.7900e-003	0.6298		1,679.330 1	1,679.330 1	0.0439	0.0474	1,694.549 6
Total	0.7783	5.5182	6.8143	0.0374	3.1144	0.0423	3.1567	0.8437	0.0401	0.8838		3,876.050 5	3,876.050 5	0.0510	0.3714	3,987.999 7

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1085	5.0906	1.4571	0.0204	0.7732	0.0326	0.8058	0.2227	0.0311	0.2538		2,157.8147	2,157.8147	6.9900e-003	0.3178	2,252.7025
Worker	0.6183	0.3691	5.0699	0.0162	2.3412	8.9300e-003	2.3501	0.6210	8.2200e-003	0.6292		1,638.5729	1,638.5729	0.0403	0.0452	1,653.0583
Total	0.7268	5.4597	6.5269	0.0367	3.1144	0.0415	3.1559	0.8437	0.0394	0.8830		3,796.3876	3,796.3876	0.0473	0.3631	3,905.7609

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1085	5.0906	1.4571	0.0204	0.7732	0.0326	0.8058	0.2227	0.0311	0.2538		2,157.8147	2,157.8147	6.9900e-003	0.3178	2,252.7025
Worker	0.6183	0.3691	5.0699	0.0162	2.3412	8.9300e-003	2.3501	0.6210	8.2200e-003	0.6292		1,638.5729	1,638.5729	0.0403	0.0452	1,653.0583
Total	0.7268	5.4597	6.5269	0.0367	3.1144	0.0415	3.1559	0.8437	0.0394	0.8830		3,796.3876	3,796.3876	0.0473	0.3631	3,905.7609

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1070	5.0761	1.4459	0.0201	0.7732	0.0324	0.8056	0.2227	0.0310	0.2537		2,123.4096	2,123.4096	6.9000e-003	0.3125	2,216.6925
Worker	0.5703	0.3382	4.8335	0.0159	2.3412	8.3500e-003	2.3496	0.6210	7.6800e-003	0.6287		1,602.1065	1,602.1065	0.0371	0.0434	1,615.9653
Total	0.6773	5.4143	6.2793	0.0360	3.1144	0.0408	3.1552	0.8437	0.0387	0.8823		3,725.5161	3,725.5161	0.0440	0.3559	3,832.6578

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1D BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.1070	5.0761	1.4459	0.0201	0.7732	0.0324	0.8056	0.2227	0.0310	0.2537		2,123.4096	2,123.4096	6.9000e-003	0.3125	2,216.6925
Worker	0.5703	0.3382	4.8335	0.0159	2.3412	8.3500e-003	2.3496	0.6210	7.6800e-003	0.6287		1,602.1065	1,602.1065	0.0371	0.0434	1,615.9653
Total	0.6773	5.4143	6.2793	0.0360	3.1144	0.0408	3.1552	0.8437	0.0387	0.8823		3,725.5161	3,725.5161	0.0440	0.3559	3,832.6578

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1D P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508
Total	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1D P - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508
Total	0.0300	0.0178	0.2544	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		84.3214	84.3214	1.9500e-003	2.2800e-003	85.0508

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2031

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.1141	0.0676	0.9667	3.1700e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		320.4213	320.4213	7.4100e-003	8.6800e-003	323.1931
Total	0.1141	0.0676	0.9667	3.1700e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		320.4213	320.4213	7.4100e-003	8.6800e-003	323.1931

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2031

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.1141	0.0676	0.9667	3.1700e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		320.4213	320.4213	7.4100e-003	8.6800e-003	323.1931
Total	0.1141	0.0676	0.9667	3.1700e-003	0.4682	1.6700e-003	0.4699	0.1242	1.5400e-003	0.1257		320.4213	320.4213	7.4100e-003	8.6800e-003	323.1931

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2032

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.1059	0.0627	0.9271	3.1100e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		313.9379	313.9379	6.8500e-003	8.3800e-003	316.6079
Total	0.1059	0.0627	0.9271	3.1100e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		313.9379	313.9379	6.8500e-003	8.3800e-003	316.6079

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1D AC - 2032

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	35.7302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	35.8609	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.1059	0.0627	0.9271	3.1100e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		313.9379	313.9379	6.8500e-003	8.3800e-003	316.6079
Total	0.1059	0.0627	0.9271	3.1100e-003	0.4682	1.5600e-003	0.4698	0.1242	1.4400e-003	0.1256		313.9379	313.9379	6.8500e-003	8.3800e-003	316.6079

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Free-Standing Discount store	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Free-Standing Discount store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Free-Standing Discount store	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Regional Shopping Center	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137
Single Family Housing	0.566275	0.048476	0.155729	0.116775	0.020519	0.005514	0.013864	0.048522	0.000848	0.000450	0.018958	0.001934	0.002137

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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					
City Park	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
Free-Standing Discount store	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
Regional Shopping Center	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
Single Family Housing	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

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City Park	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
Free-Standing Discount store	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
Regional Shopping Center	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
Single Family Housing	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

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453
Unmitigated	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756		24.5585	24.5585	0.0235		25.1453
Total	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756		24.5585	24.5585	0.0235		25.1453
Total	10.0105	0.1567	13.5987	7.2000e-004		0.0756	0.0756		0.0756	0.0756	0.0000	24.5585	24.5585	0.0235	0.0000	25.1453

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1D Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1E Mitigated
Merced County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	950.00	Student	15.00	79,423.20	0
City Park	4.50	Acre	4.50	196,020.00	0
City Park	15.50	Acre	15.50	675,180.00	0
City Park	4.80	Acre	4.80	209,088.00	0
Single Family Housing	131.00	Dwelling Unit	15.00	18,013.00	375
Single Family Housing	186.00	Dwelling Unit	43.76	511,500.00	532

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data (1E)
- Construction Phase - Dates from modeling data document and project description (1E)
- Off-road Equipment - defaults
- Trips and VMT - defaults
- Grading - Acreage is the total acreage from that phase

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT study

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - in operational model

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 15 mph limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	39712	0
tblAreaCoating	Area_Nonresidential_Interior	119135	0
tblAreaCoating	Area_Residential_Exterior	357421	0
tblAreaCoating	Area_Residential_Interior	1072264	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	60.00	31.00
tblConstructionPhase	NumDays	155.00	87.00
tblConstructionPhase	NumDays	1,550.00	873.00
tblConstructionPhase	NumDays	110.00	59.00
tblConstructionPhase	NumDays	110.00	59.00

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	1.89	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1.92	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	1.92	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	22.96	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	174.35	0.00
tblFireplaces	NumberNoFireplace	142.65	0.00
tblGrading	AcresOfGrading	261.00	90.00
tblGrading	AcresOfGrading	46.50	90.00
tblLandUse	LandUseSquareFeet	235,800.00	18,013.00
tblLandUse	LandUseSquareFeet	334,800.00	511,500.00
tblLandUse	LotAcreage	1.82	15.00
tblLandUse	LotAcreage	42.53	15.00
tblLandUse	LotAcreage	60.39	43.76
tblSolidWaste	SolidWasteGenerationRate	2.13	0.00
tblSolidWaste	SolidWasteGenerationRate	173.38	0.00
tblSolidWaste	SolidWasteGenerationRate	326.52	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	0.00

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,303,028.00	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	29,548,737.47	0.00
tblWater	OutdoorWaterUseRate	5,922,072.00	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	NumberCatalytic	58.76	0.00
tblWoodstoves	NumberNoncatalytic	58.76	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	3.3289	17.9494	31.2073	0.1093	21.2930	0.4886	21.7302	10.3024	0.4885	10.7395	0.0000	10,989.69 72	10,989.69 72	0.2940	0.7081	11,205.84 73
2031	2.8689	17.8682	30.5902	0.1078	6.4563	0.2292	6.6856	1.7471	0.2251	1.9721	0.0000	10,836.14 20	10,836.14 20	0.1995	0.6941	11,047.97 17
2032	2.7690	17.8022	30.0837	0.1064	6.4563	0.2278	6.6842	1.7471	0.2238	1.9709	0.0000	10,700.28 77	10,700.28 77	0.1941	0.6821	10,908.40 45
2033	2.6802	17.7474	29.6578	0.1053	6.4564	0.3310	6.6829	1.7471	0.3310	1.9697	0.0000	10,579.96 28	10,579.96 28	0.1893	0.6717	10,784.86 94
2034	62.7416	7.1326	16.1092	0.0289	0.9858	0.3310	1.0090	0.2615	0.3310	0.3637	0.0000	2,745.633 2	2,745.633 2	0.1259	0.0150	2,749.339 6
Maximum	62.7416	17.9494	31.2073	0.1093	21.2930	0.4886	21.7302	10.3024	0.4885	10.7395	0.0000	10,989.69 72	10,989.69 72	0.2940	0.7081	11,205.84 73

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
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
Total	13.8752	0.3016	26.1599	1.3900e-003	0.0000	0.1454	0.1454	0.0000	0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

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	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
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
Total	13.8752	0.3016	26.1599	1.3900e-003	0.0000	0.1454	0.1454	0.0000	0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1E SP	Site Preparation	1/1/2030	2/12/2030	5	31	
2	1E G	Grading	2/13/2030	6/13/2030	5	87	
3	1E BC	Building Construction	6/14/2030	10/18/2033	5	873	
4	1E P	Paving	10/19/2033	1/9/2034	5	59	
5	1E AC	Architectural Coating	1/10/2034	3/31/2034	5	59	

Acres of Grading (Site Preparation Phase): 90

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 1,072,264; Residential Outdoor: 357,421; Non-Residential Indoor: 119,135; Non-Residential Outdoor: 39,712; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1E SP	Rubber Tired Dozers	3	8.00	247	0.40
1E SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1E G	Excavators	2	8.00	158	0.38
1E G	Graders	1	8.00	187	0.41
1E G	Rubber Tired Dozers	1	8.00	247	0.40
1E G	Scrapers	2	8.00	367	0.48

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1E G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1E BC	Cranes	1	7.00	231	0.29
1E BC	Forklifts	3	8.00	89	0.20
1E BC	Generator Sets	1	8.00	84	0.74
1E BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1E BC	Welders	1	8.00	46	0.45
1E P	Pavers	2	8.00	130	0.42
1E P	Paving Equipment	2	8.00	132	0.36
1E P	Rollers	2	8.00	80	0.38
1E AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1E SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E BC	9	601.00	224.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E AC	1	120.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1E SP - 2030

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					21.1451	0.0000	21.1451	10.2631	0.0000	10.2631			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	21.1451	0.4367	21.5818	10.2631	0.4367	10.6998		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527
Total	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1E SP - 2030

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					9.5153	0.0000	9.5153	4.6184	0.0000	4.6184			0.0000			0.0000
Off-Road	0.5300	2.4319	20.8705	0.0466		0.0688	0.0688		0.0688	0.0688	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	0.5300	2.4319	20.8705	0.0466	9.5153	0.0688	9.5841	4.6184	0.0688	4.6872	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527
Total	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1E G - 2030

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					7.1192	0.0000	7.1192	3.4287	0.0000	3.4287			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.1192	0.4879	7.6071	3.4287	0.4879	3.9166		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919
Total	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1E G - 2030

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					3.2036	0.0000	3.2036	1.5429	0.0000	1.5429			0.0000			0.0000
Off-Road	0.7938	3.5073	32.9999	0.0699		0.1049	0.1049		0.1049	0.1049	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	0.7938	3.5073	32.9999	0.0699	3.2036	0.1049	3.3085	1.5429	0.1049	1.6478	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919
Total	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2289	9.3562	2.7676	0.0401	1.5193	0.0638	1.5831	0.4375	0.0610	0.4986		4,231.2522	4,231.2522	0.0144	0.6227	4,417.1692
Worker	1.4483	0.6586	12.2827	0.0382	4.9371	0.0188	4.9559	1.3095	0.0173	1.3269		3,860.8982	3,860.8982	0.0753	0.0854	3,888.2252
Total	1.6772	10.0148	15.0503	0.0783	6.4563	0.0826	6.5390	1.7471	0.0784	1.8254		8,092.1504	8,092.1504	0.0897	0.7081	8,305.3944

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2030

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2289	9.3562	2.7676	0.0401	1.5193	0.0638	1.5831	0.4375	0.0610	0.4986		4,231.2522	4,231.2522	0.0144	0.6227	4,417.1692
Worker	1.4483	0.6586	12.2827	0.0382	4.9371	0.0188	4.9559	1.3095	0.0173	1.3269		3,860.8982	3,860.8982	0.0753	0.0854	3,888.2252
Total	1.6772	10.0148	15.0503	0.0783	6.4563	0.0826	6.5390	1.7471	0.0784	1.8254		8,092.1504	8,092.1504	0.0897	0.7081	8,305.3944

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2261	9.3295	2.7457	0.0395	1.5193	0.0635	1.5828	0.4375	0.0607	0.4983		4,163.7655	4,163.7655	0.0143	0.6121	4,346.5395
Worker	1.3337	0.6040	11.6875	0.0374	4.9371	0.0176	4.9547	1.3095	0.0162	1.3257		3,774.8297	3,774.8297	0.0690	0.0820	3,800.9793
Total	1.5598	9.9336	14.4332	0.0768	6.4563	0.0811	6.5374	1.7471	0.0769	1.8240		7,938.5952	7,938.5952	0.0833	0.6941	8,147.5188

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2031

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2261	9.3295	2.7457	0.0395	1.5193	0.0635	1.5828	0.4375	0.0607	0.4983		4,163.7655	4,163.7655	0.0143	0.6121	4,346.5395
Worker	1.3337	0.6040	11.6875	0.0374	4.9371	0.0176	4.9547	1.3095	0.0162	1.3257		3,774.8297	3,774.8297	0.0690	0.0820	3,800.9793
Total	1.5598	9.9336	14.4332	0.0768	6.4563	0.0811	6.5374	1.7471	0.0769	1.8240		7,938.5952	7,938.5952	0.0833	0.6941	8,147.5188

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2241	9.3073	2.7347	0.0389	1.5193	0.0632	1.5825	0.4375	0.0605	0.4980		4,104.3538	4,104.3538	0.0141	0.6029	4,284.3709
Worker	1.2357	0.5603	11.1921	0.0366	4.9371	0.0165	4.9536	1.3095	0.0152	1.3247		3,698.3871	3,698.3871	0.0637	0.0792	3,723.5808
Total	1.4599	9.8675	13.9267	0.0755	6.4563	0.0797	6.5360	1.7471	0.0756	1.8227		7,802.7409	7,802.7409	0.0778	0.6821	8,007.9516

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2032

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2241	9.3073	2.7347	0.0389	1.5193	0.0632	1.5825	0.4375	0.0605	0.4980		4,104.3538	4,104.3538	0.0141	0.6029	4,284.3709
Worker	1.2357	0.5603	11.1921	0.0366	4.9371	0.0165	4.9536	1.3095	0.0152	1.3247		3,698.3871	3,698.3871	0.0637	0.0792	3,723.5808
Total	1.4599	9.8675	13.9267	0.0755	6.4563	0.0797	6.5360	1.7471	0.0756	1.8227		7,802.7409	7,802.7409	0.0778	0.6821	8,007.9516

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2228	9.2884	2.7301	0.0384	1.5193	0.0630	1.5822	0.4375	0.0602	0.4978		4,051.8576	4,051.8576	0.0141	0.5948	4,229.4537
Worker	1.1483	0.5244	10.7708	0.0359	4.9371	0.0154	4.9525	1.3095	0.0142	1.3238		3,630.5585	3,630.5585	0.0590	0.0769	3,654.9629
Total	1.3711	9.8127	13.5008	0.0743	6.4564	0.0784	6.5348	1.7471	0.0744	1.8215		7,682.4161	7,682.4161	0.0731	0.6717	7,884.4166

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2033

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2228	9.2884	2.7301	0.0384	1.5193	0.0630	1.5822	0.4375	0.0602	0.4978		4,051.8576	4,051.8576	0.0141	0.5948	4,229.4537
Worker	1.1483	0.5244	10.7708	0.0359	4.9371	0.0154	4.9525	1.3095	0.0142	1.3238		3,630.5585	3,630.5585	0.0590	0.0769	3,654.9629
Total	1.3711	9.8127	13.5008	0.0743	6.4564	0.0784	6.5348	1.7471	0.0744	1.8215		7,682.4161	7,682.4161	0.0731	0.6717	7,884.4166

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2033

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0287	0.0131	0.2688	9.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		90.6129	90.6129	1.4700e-003	1.9200e-003	91.2220
Total	0.0287	0.0131	0.2688	9.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		90.6129	90.6129	1.4700e-003	1.9200e-003	91.2220

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2033

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	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0287	0.0131	0.2688	9.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		90.6129	90.6129	1.4700e-003	1.9200e-003	91.2220
Total	0.0287	0.0131	0.2688	9.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		90.6129	90.6129	1.4700e-003	1.9200e-003	91.2220

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2034

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0267	0.0124	0.2597	8.8000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		89.1164	89.1164	1.3700e-003	1.8700e-003	89.7094
Total	0.0267	0.0124	0.2597	8.8000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		89.1164	89.1164	1.3700e-003	1.8700e-003	89.7094

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2034

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	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0267	0.0124	0.2597	8.8000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		89.1164	89.1164	1.3700e-003	1.8700e-003	89.7094
Total	0.0267	0.0124	0.2597	8.8000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		89.1164	89.1164	1.3700e-003	1.8700e-003	89.7094

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1E AC - 2034

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	62.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	62.5278	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.2138	0.0989	2.0777	7.0500e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		712.9315	712.9315	0.0110	0.0150	717.6752
Total	0.2138	0.0989	2.0777	7.0500e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		712.9315	712.9315	0.0110	0.0150	717.6752

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1E AC - 2034

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	62.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	62.5278	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.2138	0.0989	2.0777	7.0500e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		712.9315	712.9315	0.0110	0.0150	717.6752
Total	0.2138	0.0989	2.0777	7.0500e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		712.9315	712.9315	0.0110	0.0150	717.6752

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Elementary School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
City Park	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
Elementary School	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
Single Family Housing	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

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City Park	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
Elementary School	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
Single Family Housing	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

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
Unmitigated	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7883	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454		47.3044	47.3044	0.0454		48.4389
Total	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7883	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454		47.3044	47.3044	0.0454		48.4389
Total	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1E Mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_1E Unmitigated

Merced County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	950.00	Student	15.00	79,423.20	0
City Park	4.50	Acre	4.50	196,020.00	0
City Park	15.50	Acre	15.50	675,180.00	0
City Park	4.80	Acre	4.80	209,088.00	0
Single Family Housing	131.00	Dwelling Unit	15.00	18,013.00	375
Single Family Housing	186.00	Dwelling Unit	43.76	511,500.00	532

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEmod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data (1E)
- Construction Phase - Dates from modeling data document and project description (1E)
- Off-road Equipment - defaults
- Trips and VMT - defaults
- Grading - Acreage is the total acreage from that phase

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT study

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - in operational model

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 15 mph limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	39712	0
tblAreaCoating	Area_Nonresidential_Interior	119135	0
tblAreaCoating	Area_Residential_Exterior	357421	0
tblAreaCoating	Area_Residential_Interior	1072264	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	60.00	31.00
tblConstructionPhase	NumDays	155.00	87.00
tblConstructionPhase	NumDays	1,550.00	873.00
tblConstructionPhase	NumDays	110.00	59.00
tblConstructionPhase	NumDays	110.00	59.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	1.89	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1.92	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	1.92	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	22.96	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	174.35	0.00
tblFireplaces	NumberNoFireplace	142.65	0.00
tblGrading	AcresOfGrading	261.00	90.00
tblGrading	AcresOfGrading	46.50	90.00
tblLandUse	LandUseSquareFeet	235,800.00	18,013.00
tblLandUse	LandUseSquareFeet	334,800.00	511,500.00
tblLandUse	LotAcreage	1.82	15.00
tblLandUse	LotAcreage	42.53	15.00
tblLandUse	LotAcreage	60.39	43.76
tblSolidWaste	SolidWasteGenerationRate	2.13	0.00
tblSolidWaste	SolidWasteGenerationRate	173.38	0.00

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	326.52	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,303,028.00	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	29,548,737.47	0.00
tblWater	OutdoorWaterUseRate	5,922,072.00	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	NumberCatalytic	58.76	0.00
tblWoodstoves	NumberNoncatalytic	58.76	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	3.3241	18.7155	29.7112	0.1053	21.2930	0.4886	21.7302	10.3024	0.4885	10.7395	0.0000	10,592.83 99	10,592.83 99	0.2943	0.7199	10,812.73 87
2031	2.7220	18.6219	29.1907	0.1039	6.4563	0.2294	6.6857	1.7471	0.2252	1.9723	0.0000	10,448.33 76	10,448.33 76	0.2079	0.7055	10,663.76 15
2032	2.6338	18.5461	28.7627	0.1027	6.4563	0.2280	6.6843	1.7471	0.2239	1.9710	0.0000	10,320.46 70	10,320.46 70	0.2020	0.6931	10,532.05 36
2033	2.5557	18.4835	28.4021	0.1016	6.4564	0.3310	6.6831	1.7471	0.3310	1.9698	0.0000	10,207.19 90	10,207.19 90	0.1968	0.6824	10,415.47 31
2034	62.7220	7.1348	16.0769	0.0288	0.9858	0.3310	1.0090	0.2615	0.3310	0.3637	0.0000	2,736.277 3	2,736.277 3	0.1261	0.0167	2,740.053 2
Maximum	62.7220	18.7155	29.7112	0.1053	21.2930	0.4886	21.7302	10.3024	0.4885	10.7395	0.0000	10,592.83 99	10,592.83 99	0.2943	0.7199	10,812.73 87

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
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
Total	13.8752	0.3016	26.1599	1.3900e-003	0.0000	0.1454	0.1454	0.0000	0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

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	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
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
Total	13.8752	0.3016	26.1599	1.3900e-003	0.0000	0.1454	0.1454	0.0000	0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1E SP	Site Preparation	1/1/2030	2/12/2030	5	31	
2	1E G	Grading	2/13/2030	6/13/2030	5	87	
3	1E BC	Building Construction	6/14/2030	10/18/2033	5	873	
4	1E P	Paving	10/19/2033	1/9/2034	5	59	
5	1E AC	Architectural Coating	1/10/2034	3/31/2034	5	59	

Acres of Grading (Site Preparation Phase): 90

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 1,072,264; Residential Outdoor: 357,421; Non-Residential Indoor: 119,135; Non-Residential Outdoor: 39,712; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1E SP	Rubber Tired Dozers	3	8.00	247	0.40
1E SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1E G	Excavators	2	8.00	158	0.38
1E G	Graders	1	8.00	187	0.41
1E G	Rubber Tired Dozers	1	8.00	247	0.40
1E G	Scrapers	2	8.00	367	0.48

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1E G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1E BC	Cranes	1	7.00	231	0.29
1E BC	Forklifts	3	8.00	89	0.20
1E BC	Generator Sets	1	8.00	84	0.74
1E BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1E BC	Welders	1	8.00	46	0.45
1E P	Pavers	2	8.00	130	0.42
1E P	Paving Equipment	2	8.00	132	0.36
1E P	Rollers	2	8.00	80	0.38
1E AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1E SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E BC	9	601.00	224.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E AC	1	120.00	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

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1E SP - 2030

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					21.1451	0.0000	21.1451	10.2631	0.0000	10.2631			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	21.1451	0.4367	21.5818	10.2631	0.4367	10.6998		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037
Total	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1E SP - 2030

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					9.5153	0.0000	9.5153	4.6184	0.0000	4.6184			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 6
Total	2.4399	13.6680	16.2918	0.0466	9.5153	0.4367	9.9520	4.6184	0.4367	5.0551	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 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	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037
Total	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1E G - 2030

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					7.1192	0.0000	7.1192	3.4287	0.0000	3.4287			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.1192	0.4879	7.6071	3.4287	0.4879	3.9166		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041
Total	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1E G - 2030

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					3.2036	0.0000	3.2036	1.5429	0.0000	1.5429			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	3.2036	0.4879	3.6916	1.5429	0.4879	2.0308	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041
Total	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2132	10.0027	2.8630	0.0402	1.5193	0.0640	1.5832	0.4375	0.0612	0.4987		4,239.9167	4,239.9167	0.0137	0.6245	4,426.3629
Worker	1.3039	0.7783	10.6912	0.0342	4.9371	0.0188	4.9559	1.3095	0.0173	1.3269		3,455.3765	3,455.3765	0.0849	0.0954	3,485.9230
Total	1.5171	10.7809	13.5542	0.0744	6.4563	0.0828	6.5391	1.7471	0.0785	1.8256		7,695.2932	7,695.2932	0.0987	0.7199	7,912.2859

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2132	10.0027	2.8630	0.0402	1.5193	0.0640	1.5832	0.4375	0.0612	0.4987		4,239.9167	4,239.9167	0.0137	0.6245	4,426.3629
Worker	1.3039	0.7783	10.6912	0.0342	4.9371	0.0188	4.9559	1.3095	0.0173	1.3269		3,455.3765	3,455.3765	0.0849	0.0954	3,485.9230
Total	1.5171	10.7809	13.5542	0.0744	6.4563	0.0828	6.5391	1.7471	0.0785	1.8256		7,695.2932	7,695.2932	0.0987	0.7199	7,912.2859

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2103	9.9740	2.8410	0.0395	1.5193	0.0637	1.5829	0.4375	0.0609	0.4984		4,172.3137	4,172.3137	0.0136	0.6139	4,355.6064
Worker	1.2026	0.7132	10.1927	0.0334	4.9371	0.0176	4.9547	1.3095	0.0162	1.3257		3,378.4772	3,378.4772	0.0781	0.0915	3,407.7023
Total	1.4129	10.6872	13.0337	0.0730	6.4563	0.0813	6.5376	1.7471	0.0771	1.8242		7,550.7908	7,550.7908	0.0917	0.7055	7,763.3087

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2103	9.9740	2.8410	0.0395	1.5193	0.0637	1.5829	0.4375	0.0609	0.4984		4,172.3137	4,172.3137	0.0136	0.6139	4,355.6064
Worker	1.2026	0.7132	10.1927	0.0334	4.9371	0.0176	4.9547	1.3095	0.0162	1.3257		3,378.4772	3,378.4772	0.0781	0.0915	3,407.7023
Total	1.4129	10.6872	13.0337	0.0730	6.4563	0.0813	6.5376	1.7471	0.0771	1.8242		7,550.7908	7,550.7908	0.0917	0.7055	7,763.3087

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2083	9.9503	2.8301	0.0390	1.5193	0.0634	1.5827	0.4375	0.0606	0.4982		4,112.8033	4,112.8033	0.0135	0.6047	4,293.3311
Worker	1.1164	0.6612	9.7755	0.0328	4.9371	0.0165	4.9536	1.3095	0.0152	1.3247		3,310.1169	3,310.1169	0.0723	0.0884	3,338.2697
Total	1.3247	10.6115	12.6057	0.0717	6.4563	0.0799	6.5362	1.7471	0.0758	1.8229		7,422.9202	7,422.9202	0.0858	0.6931	7,631.6007

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2083	9.9503	2.8301	0.0390	1.5193	0.0634	1.5827	0.4375	0.0606	0.4982		4,112.8033	4,112.8033	0.0135	0.6047	4,293.3311
Worker	1.1164	0.6612	9.7755	0.0328	4.9371	0.0165	4.9536	1.3095	0.0152	1.3247		3,310.1169	3,310.1169	0.0723	0.0884	3,338.2697
Total	1.3247	10.6115	12.6057	0.0717	6.4563	0.0799	6.5362	1.7471	0.0758	1.8229		7,422.9202	7,422.9202	0.0858	0.6931	7,631.6007

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2069	9.9304	2.8259	0.0385	1.5193	0.0631	1.5824	0.4375	0.0604	0.4979		4,060.2359	4,060.2359	0.0134	0.5965	4,238.3366
Worker	1.0397	0.6185	9.4192	0.0322	4.9371	0.0154	4.9525	1.3095	0.0142	1.3238		3,249.4163	3,249.4163	0.0672	0.0859	3,276.6837
Total	1.2466	10.5489	12.2451	0.0706	6.4564	0.0786	6.5349	1.7471	0.0746	1.8217		7,309.6522	7,309.6522	0.0806	0.6824	7,515.0203

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2069	9.9304	2.8259	0.0385	1.5193	0.0631	1.5824	0.4375	0.0604	0.4979		4,060.2359	4,060.2359	0.0134	0.5965	4,238.3366
Worker	1.0397	0.6185	9.4192	0.0322	4.9371	0.0154	4.9525	1.3095	0.0142	1.3238		3,249.4163	3,249.4163	0.0672	0.0859	3,276.6837
Total	1.2466	10.5489	12.2451	0.0706	6.4564	0.0786	6.5349	1.7471	0.0746	1.8217		7,309.6522	7,309.6522	0.0806	0.6824	7,515.0203

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2033

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0260	0.0154	0.2351	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		81.1002	81.1002	1.6800e-003	2.1400e-003	81.7808
Total	0.0260	0.0154	0.2351	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		81.1002	81.1002	1.6800e-003	2.1400e-003	81.7808

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2033

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0260	0.0154	0.2351	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		81.1002	81.1002	1.6800e-003	2.1400e-003	81.7808
Total	0.0260	0.0154	0.2351	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		81.1002	81.1002	1.6800e-003	2.1400e-003	81.7808

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2034

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0243	0.0146	0.2274	7.9000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		79.7606	79.7606	1.5600e-003	2.0900e-003	80.4230
Total	0.0243	0.0146	0.2274	7.9000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		79.7606	79.7606	1.5600e-003	2.0900e-003	80.4230

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2034

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0243	0.0146	0.2274	7.9000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		79.7606	79.7606	1.5600e-003	2.0900e-003	80.4230
Total	0.0243	0.0146	0.2274	7.9000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		79.7606	79.7606	1.5600e-003	2.0900e-003	80.4230

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1E AC - 2034

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	62.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	62.5278	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.1943	0.1166	1.8189	6.3100e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		638.0845	638.0845	0.0125	0.0167	643.3841
Total	0.1943	0.1166	1.8189	6.3100e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		638.0845	638.0845	0.0125	0.0167	643.3841

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1E AC - 2034

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	62.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	62.5278	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.1943	0.1166	1.8189	6.3100e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		638.0845	638.0845	0.0125	0.0167	643.3841
Total	0.1943	0.1166	1.8189	6.3100e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		638.0845	638.0845	0.0125	0.0167	643.3841

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Elementary School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
City Park	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
Elementary School	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
Single Family Housing	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

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City Park	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
Elementary School	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
Single Family Housing	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

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
Unmitigated	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7883	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454		47.3044	47.3044	0.0454		48.4389
Total	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7883	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454		47.3044	47.3044	0.0454		48.4389
Total	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1E Unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

Boilers

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

Equipment Type	Number
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11.0 Vegetation

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_1E Mitigated
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	950.00	Student	15.00	79,423.20	0
City Park	4.50	Acre	4.50	196,020.00	0
City Park	15.50	Acre	15.50	675,180.00	0
City Park	4.80	Acre	4.80	209,088.00	0
Single Family Housing	131.00	Dwelling Unit	15.00	18,013.00	375
Single Family Housing	186.00	Dwelling Unit	43.76	511,500.00	532

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data (1E)
- Construction Phase - Dates from modeling data document and project description (1E)
- Off-road Equipment - defaults
- Trips and VMT - defaults
- Grading - Acreage is the total acreage from that phase

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT study

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - in operational model

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 15 mph limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	39712	0
tblAreaCoating	Area_Nonresidential_Interior	119135	0
tblAreaCoating	Area_Residential_Exterior	357421	0
tblAreaCoating	Area_Residential_Interior	1072264	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	60.00	31.00
tblConstructionPhase	NumDays	155.00	87.00
tblConstructionPhase	NumDays	1,550.00	873.00
tblConstructionPhase	NumDays	110.00	59.00
tblConstructionPhase	NumDays	110.00	59.00

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	1.89	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1.92	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	1.92	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	22.96	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	174.35	0.00
tblFireplaces	NumberNoFireplace	142.65	0.00
tblGrading	AcresOfGrading	261.00	90.00
tblGrading	AcresOfGrading	46.50	90.00
tblLandUse	LandUseSquareFeet	235,800.00	18,013.00
tblLandUse	LandUseSquareFeet	334,800.00	511,500.00
tblLandUse	LotAcreage	1.82	15.00
tblLandUse	LotAcreage	42.53	15.00
tblLandUse	LotAcreage	60.39	43.76
tblSolidWaste	SolidWasteGenerationRate	2.13	0.00
tblSolidWaste	SolidWasteGenerationRate	173.38	0.00
tblSolidWaste	SolidWasteGenerationRate	326.52	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	0.00

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,303,028.00	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	29,548,737.47	0.00
tblWater	OutdoorWaterUseRate	5,922,072.00	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	NumberCatalytic	58.76	0.00
tblWoodstoves	NumberNoncatalytic	58.76	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	3.3241	18.7155	29.7112	0.1053	21.2930	0.4886	21.7302	10.3024	0.4885	10.7395	0.0000	10,592.83 99	10,592.83 99	0.2943	0.7199	10,812.73 87
2031	2.7220	18.6219	29.1907	0.1039	6.4563	0.2294	6.6857	1.7471	0.2252	1.9723	0.0000	10,448.33 76	10,448.33 76	0.2079	0.7055	10,663.76 15
2032	2.6338	18.5461	28.7627	0.1027	6.4563	0.2280	6.6843	1.7471	0.2239	1.9710	0.0000	10,320.46 70	10,320.46 70	0.2020	0.6931	10,532.05 36
2033	2.5557	18.4835	28.4021	0.1016	6.4564	0.3310	6.6831	1.7471	0.3310	1.9698	0.0000	10,207.19 90	10,207.19 90	0.1968	0.6824	10,415.47 31
2034	62.7220	7.1348	16.0769	0.0288	0.9858	0.3310	1.0090	0.2615	0.3310	0.3637	0.0000	2,736.277 3	2,736.277 3	0.1261	0.0167	2,740.053 2
Maximum	62.7220	18.7155	29.7112	0.1053	21.2930	0.4886	21.7302	10.3024	0.4885	10.7395	0.0000	10,592.83 99	10,592.83 99	0.2943	0.7199	10,812.73 87

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
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
Total	13.8752	0.3016	26.1599	1.3900e-003	0.0000	0.1454	0.1454	0.0000	0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

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	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
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
Total	13.8752	0.3016	26.1599	1.3900e-003	0.0000	0.1454	0.1454	0.0000	0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1E SP	Site Preparation	1/1/2030	2/12/2030	5	31	
2	1E G	Grading	2/13/2030	6/13/2030	5	87	
3	1E BC	Building Construction	6/14/2030	10/18/2033	5	873	
4	1E P	Paving	10/19/2033	1/9/2034	5	59	
5	1E AC	Architectural Coating	1/10/2034	3/31/2034	5	59	

Acres of Grading (Site Preparation Phase): 90

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 1,072,264; Residential Outdoor: 357,421; Non-Residential Indoor: 119,135; Non-Residential Outdoor: 39,712; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1E SP	Rubber Tired Dozers	3	8.00	247	0.40
1E SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1E G	Excavators	2	8.00	158	0.38
1E G	Graders	1	8.00	187	0.41
1E G	Rubber Tired Dozers	1	8.00	247	0.40
1E G	Scrapers	2	8.00	367	0.48

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1E G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1E BC	Cranes	1	7.00	231	0.29
1E BC	Forklifts	3	8.00	89	0.20
1E BC	Generator Sets	1	8.00	84	0.74
1E BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1E BC	Welders	1	8.00	46	0.45
1E P	Pavers	2	8.00	130	0.42
1E P	Paving Equipment	2	8.00	132	0.36
1E P	Rollers	2	8.00	80	0.38
1E AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1E SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E BC	9	601.00	224.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E AC	1	120.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1E SP - 2030

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					21.1451	0.0000	21.1451	10.2631	0.0000	10.2631			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	21.1451	0.4367	21.5818	10.2631	0.4367	10.6998		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037
Total	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1E SP - 2030

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					9.5153	0.0000	9.5153	4.6184	0.0000	4.6184			0.0000			0.0000
Off-Road	0.5300	2.4319	20.8705	0.0466		0.0688	0.0688		0.0688	0.0688	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	0.5300	2.4319	20.8705	0.0466	9.5153	0.0688	9.5841	4.6184	0.0688	4.6872	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037
Total	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1E G - 2030

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					7.1192	0.0000	7.1192	3.4287	0.0000	3.4287			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.1192	0.4879	7.6071	3.4287	0.4879	3.9166		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041
Total	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1E G - 2030

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					3.2036	0.0000	3.2036	1.5429	0.0000	1.5429			0.0000			0.0000
Off-Road	0.7938	3.5073	32.9999	0.0699		0.1049	0.1049		0.1049	0.1049	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	0.7938	3.5073	32.9999	0.0699	3.2036	0.1049	3.3085	1.5429	0.1049	1.6478	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041
Total	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2132	10.0027	2.8630	0.0402	1.5193	0.0640	1.5832	0.4375	0.0612	0.4987		4,239.9167	4,239.9167	0.0137	0.6245	4,426.3629
Worker	1.3039	0.7783	10.6912	0.0342	4.9371	0.0188	4.9559	1.3095	0.0173	1.3269		3,455.3765	3,455.3765	0.0849	0.0954	3,485.9230
Total	1.5171	10.7809	13.5542	0.0744	6.4563	0.0828	6.5391	1.7471	0.0785	1.8256		7,695.2932	7,695.2932	0.0987	0.7199	7,912.2859

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2030

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2132	10.0027	2.8630	0.0402	1.5193	0.0640	1.5832	0.4375	0.0612	0.4987		4,239.9167	4,239.9167	0.0137	0.6245	4,426.3629
Worker	1.3039	0.7783	10.6912	0.0342	4.9371	0.0188	4.9559	1.3095	0.0173	1.3269		3,455.3765	3,455.3765	0.0849	0.0954	3,485.9230
Total	1.5171	10.7809	13.5542	0.0744	6.4563	0.0828	6.5391	1.7471	0.0785	1.8256		7,695.2932	7,695.2932	0.0987	0.7199	7,912.2859

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2103	9.9740	2.8410	0.0395	1.5193	0.0637	1.5829	0.4375	0.0609	0.4984		4,172.3137	4,172.3137	0.0136	0.6139	4,355.6064
Worker	1.2026	0.7132	10.1927	0.0334	4.9371	0.0176	4.9547	1.3095	0.0162	1.3257		3,378.4772	3,378.4772	0.0781	0.0915	3,407.7023
Total	1.4129	10.6872	13.0337	0.0730	6.4563	0.0813	6.5376	1.7471	0.0771	1.8242		7,550.7908	7,550.7908	0.0917	0.7055	7,763.3087

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2031

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2103	9.9740	2.8410	0.0395	1.5193	0.0637	1.5829	0.4375	0.0609	0.4984		4,172.3137	4,172.3137	0.0136	0.6139	4,355.6064
Worker	1.2026	0.7132	10.1927	0.0334	4.9371	0.0176	4.9547	1.3095	0.0162	1.3257		3,378.4772	3,378.4772	0.0781	0.0915	3,407.7023
Total	1.4129	10.6872	13.0337	0.0730	6.4563	0.0813	6.5376	1.7471	0.0771	1.8242		7,550.7908	7,550.7908	0.0917	0.7055	7,763.3087

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2083	9.9503	2.8301	0.0390	1.5193	0.0634	1.5827	0.4375	0.0606	0.4982		4,112.8033	4,112.8033	0.0135	0.6047	4,293.3311
Worker	1.1164	0.6612	9.7755	0.0328	4.9371	0.0165	4.9536	1.3095	0.0152	1.3247		3,310.1169	3,310.1169	0.0723	0.0884	3,338.2697
Total	1.3247	10.6115	12.6057	0.0717	6.4563	0.0799	6.5362	1.7471	0.0758	1.8229		7,422.9202	7,422.9202	0.0858	0.6931	7,631.6007

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2032

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2083	9.9503	2.8301	0.0390	1.5193	0.0634	1.5827	0.4375	0.0606	0.4982		4,112.8033	4,112.8033	0.0135	0.6047	4,293.3311
Worker	1.1164	0.6612	9.7755	0.0328	4.9371	0.0165	4.9536	1.3095	0.0152	1.3247		3,310.1169	3,310.1169	0.0723	0.0884	3,338.2697
Total	1.3247	10.6115	12.6057	0.0717	6.4563	0.0799	6.5362	1.7471	0.0758	1.8229		7,422.9202	7,422.9202	0.0858	0.6931	7,631.6007

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2069	9.9304	2.8259	0.0385	1.5193	0.0631	1.5824	0.4375	0.0604	0.4979		4,060.2359	4,060.2359	0.0134	0.5965	4,238.3366
Worker	1.0397	0.6185	9.4192	0.0322	4.9371	0.0154	4.9525	1.3095	0.0142	1.3238		3,249.4163	3,249.4163	0.0672	0.0859	3,276.6837
Total	1.2466	10.5489	12.2451	0.0706	6.4564	0.0786	6.5349	1.7471	0.0746	1.8217		7,309.6522	7,309.6522	0.0806	0.6824	7,515.0203

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2033

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2069	9.9304	2.8259	0.0385	1.5193	0.0631	1.5824	0.4375	0.0604	0.4979		4,060.2359	4,060.2359	0.0134	0.5965	4,238.3366
Worker	1.0397	0.6185	9.4192	0.0322	4.9371	0.0154	4.9525	1.3095	0.0142	1.3238		3,249.4163	3,249.4163	0.0672	0.0859	3,276.6837
Total	1.2466	10.5489	12.2451	0.0706	6.4564	0.0786	6.5349	1.7471	0.0746	1.8217		7,309.6522	7,309.6522	0.0806	0.6824	7,515.0203

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2033

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0260	0.0154	0.2351	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		81.1002	81.1002	1.6800e-003	2.1400e-003	81.7808
Total	0.0260	0.0154	0.2351	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		81.1002	81.1002	1.6800e-003	2.1400e-003	81.7808

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2033

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	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0260	0.0154	0.2351	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		81.1002	81.1002	1.6800e-003	2.1400e-003	81.7808
Total	0.0260	0.0154	0.2351	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		81.1002	81.1002	1.6800e-003	2.1400e-003	81.7808

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2034

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0243	0.0146	0.2274	7.9000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		79.7606	79.7606	1.5600e-003	2.0900e-003	80.4230
Total	0.0243	0.0146	0.2274	7.9000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		79.7606	79.7606	1.5600e-003	2.0900e-003	80.4230

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2034

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	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0243	0.0146	0.2274	7.9000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		79.7606	79.7606	1.5600e-003	2.0900e-003	80.4230
Total	0.0243	0.0146	0.2274	7.9000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		79.7606	79.7606	1.5600e-003	2.0900e-003	80.4230

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1E AC - 2034

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	62.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	62.5278	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.1943	0.1166	1.8189	6.3100e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		638.0845	638.0845	0.0125	0.0167	643.3841
Total	0.1943	0.1166	1.8189	6.3100e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		638.0845	638.0845	0.0125	0.0167	643.3841

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1E AC - 2034

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	62.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	62.5278	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.1943	0.1166	1.8189	6.3100e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		638.0845	638.0845	0.0125	0.0167	643.3841
Total	0.1943	0.1166	1.8189	6.3100e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		638.0845	638.0845	0.0125	0.0167	643.3841

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Elementary School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
City Park	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
Elementary School	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
Single Family Housing	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

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City Park	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
Elementary School	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
Single Family Housing	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

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
Unmitigated	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7883	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454		47.3044	47.3044	0.0454		48.4389
Total	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7883	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454		47.3044	47.3044	0.0454		48.4389
Total	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1E Mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_1E Unmitigated

Merced County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	950.00	Student	15.00	79,423.20	0
City Park	4.50	Acre	4.50	196,020.00	0
City Park	15.50	Acre	15.50	675,180.00	0
City Park	4.80	Acre	4.80	209,088.00	0
Single Family Housing	131.00	Dwelling Unit	15.00	18,013.00	375
Single Family Housing	186.00	Dwelling Unit	43.76	511,500.00	532

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast
- Land Use - Acreage and sq footage taken from project description and modeling data (1E)
- Construction Phase - Dates from modeling data document and project description (1E)
- Off-road Equipment - defaults
- Trips and VMT - defaults
- Grading - Acreage is the total acreage from that phase

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VMT study

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - in operational model

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 15 mph limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	39712	0
tblAreaCoating	Area_Nonresidential_Interior	119135	0
tblAreaCoating	Area_Residential_Exterior	357421	0
tblAreaCoating	Area_Residential_Interior	1072264	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	60.00	31.00
tblConstructionPhase	NumDays	155.00	87.00
tblConstructionPhase	NumDays	1,550.00	873.00
tblConstructionPhase	NumDays	110.00	59.00
tblConstructionPhase	NumDays	110.00	59.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	1.89	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1.92	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	1.92	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	22.96	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	174.35	0.00
tblFireplaces	NumberNoFireplace	142.65	0.00
tblGrading	AcresOfGrading	261.00	90.00
tblGrading	AcresOfGrading	46.50	90.00
tblLandUse	LandUseSquareFeet	235,800.00	18,013.00
tblLandUse	LandUseSquareFeet	334,800.00	511,500.00
tblLandUse	LotAcreage	1.82	15.00
tblLandUse	LotAcreage	42.53	15.00
tblLandUse	LotAcreage	60.39	43.76
tblSolidWaste	SolidWasteGenerationRate	2.13	0.00
tblSolidWaste	SolidWasteGenerationRate	173.38	0.00

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	326.52	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,303,028.00	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	29,548,737.47	0.00
tblWater	OutdoorWaterUseRate	5,922,072.00	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	NumberCatalytic	58.76	0.00
tblWoodstoves	NumberNoncatalytic	58.76	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	3.3289	17.9494	31.2073	0.1093	21.2930	0.4886	21.7302	10.3024	0.4885	10.7395	0.0000	10,989.69 72	10,989.69 72	0.2940	0.7081	11,205.84 73
2031	2.8689	17.8682	30.5902	0.1078	6.4563	0.2292	6.6856	1.7471	0.2251	1.9721	0.0000	10,836.14 20	10,836.14 20	0.1995	0.6941	11,047.97 17
2032	2.7690	17.8022	30.0837	0.1064	6.4563	0.2278	6.6842	1.7471	0.2238	1.9709	0.0000	10,700.28 77	10,700.28 77	0.1941	0.6821	10,908.40 45
2033	2.6802	17.7474	29.6578	0.1053	6.4564	0.3310	6.6829	1.7471	0.3310	1.9697	0.0000	10,579.96 28	10,579.96 28	0.1893	0.6717	10,784.86 94
2034	62.7416	7.1326	16.1092	0.0289	0.9858	0.3310	1.0090	0.2615	0.3310	0.3637	0.0000	2,745.633 2	2,745.633 2	0.1259	0.0150	2,749.339 6
Maximum	62.7416	17.9494	31.2073	0.1093	21.2930	0.4886	21.7302	10.3024	0.4885	10.7395	0.0000	10,989.69 72	10,989.69 72	0.2940	0.7081	11,205.84 73

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
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
Total	13.8752	0.3016	26.1599	1.3900e-003	0.0000	0.1454	0.1454	0.0000	0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

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	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
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
Total	13.8752	0.3016	26.1599	1.3900e-003	0.0000	0.1454	0.1454	0.0000	0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1E SP	Site Preparation	1/1/2030	2/12/2030	5	31	
2	1E G	Grading	2/13/2030	6/13/2030	5	87	
3	1E BC	Building Construction	6/14/2030	10/18/2033	5	873	
4	1E P	Paving	10/19/2033	1/9/2034	5	59	
5	1E AC	Architectural Coating	1/10/2034	3/31/2034	5	59	

Acres of Grading (Site Preparation Phase): 90

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 1,072,264; Residential Outdoor: 357,421; Non-Residential Indoor: 119,135; Non-Residential Outdoor: 39,712; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1E SP	Rubber Tired Dozers	3	8.00	247	0.40
1E SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
1E G	Excavators	2	8.00	158	0.38
1E G	Graders	1	8.00	187	0.41
1E G	Rubber Tired Dozers	1	8.00	247	0.40
1E G	Scrapers	2	8.00	367	0.48

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

1E G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
1E BC	Cranes	1	7.00	231	0.29
1E BC	Forklifts	3	8.00	89	0.20
1E BC	Generator Sets	1	8.00	84	0.74
1E BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
1E BC	Welders	1	8.00	46	0.45
1E P	Pavers	2	8.00	130	0.42
1E P	Paving Equipment	2	8.00	132	0.36
1E P	Rollers	2	8.00	80	0.38
1E AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1E SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E BC	9	601.00	224.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1E AC	1	120.00	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

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1E SP - 2030

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					21.1451	0.0000	21.1451	10.2631	0.0000	10.2631			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	21.1451	0.4367	21.5818	10.2631	0.4367	10.6998		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527
Total	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 1E SP - 2030

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					9.5153	0.0000	9.5153	4.6184	0.0000	4.6184			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 6
Total	2.4399	13.6680	16.2918	0.0466	9.5153	0.4367	9.9520	4.6184	0.4367	5.0551	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 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	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527
Total	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1E G - 2030

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					7.1192	0.0000	7.1192	3.4287	0.0000	3.4287			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.1192	0.4879	7.6071	3.4287	0.4879	3.9166		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919
Total	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 1E G - 2030

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					3.2036	0.0000	3.2036	1.5429	0.0000	1.5429			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	3.2036	0.4879	3.6916	1.5429	0.4879	2.0308	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919
Total	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2289	9.3562	2.7676	0.0401	1.5193	0.0638	1.5831	0.4375	0.0610	0.4986		4,231.2522	4,231.2522	0.0144	0.6227	4,417.1692
Worker	1.4483	0.6586	12.2827	0.0382	4.9371	0.0188	4.9559	1.3095	0.0173	1.3269		3,860.8982	3,860.8982	0.0753	0.0854	3,888.2252
Total	1.6772	10.0148	15.0503	0.0783	6.4563	0.0826	6.5390	1.7471	0.0784	1.8254		8,092.1504	8,092.1504	0.0897	0.7081	8,305.3944

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2030

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2289	9.3562	2.7676	0.0401	1.5193	0.0638	1.5831	0.4375	0.0610	0.4986		4,231.2522	4,231.2522	0.0144	0.6227	4,417.1692
Worker	1.4483	0.6586	12.2827	0.0382	4.9371	0.0188	4.9559	1.3095	0.0173	1.3269		3,860.8982	3,860.8982	0.0753	0.0854	3,888.2252
Total	1.6772	10.0148	15.0503	0.0783	6.4563	0.0826	6.5390	1.7471	0.0784	1.8254		8,092.1504	8,092.1504	0.0897	0.7081	8,305.3944

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2261	9.3295	2.7457	0.0395	1.5193	0.0635	1.5828	0.4375	0.0607	0.4983		4,163.7655	4,163.7655	0.0143	0.6121	4,346.5395
Worker	1.3337	0.6040	11.6875	0.0374	4.9371	0.0176	4.9547	1.3095	0.0162	1.3257		3,774.8297	3,774.8297	0.0690	0.0820	3,800.9793
Total	1.5598	9.9336	14.4332	0.0768	6.4563	0.0811	6.5374	1.7471	0.0769	1.8240		7,938.5952	7,938.5952	0.0833	0.6941	8,147.5188

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2261	9.3295	2.7457	0.0395	1.5193	0.0635	1.5828	0.4375	0.0607	0.4983		4,163.7655	4,163.7655	0.0143	0.6121	4,346.5395
Worker	1.3337	0.6040	11.6875	0.0374	4.9371	0.0176	4.9547	1.3095	0.0162	1.3257		3,774.8297	3,774.8297	0.0690	0.0820	3,800.9793
Total	1.5598	9.9336	14.4332	0.0768	6.4563	0.0811	6.5374	1.7471	0.0769	1.8240		7,938.5952	7,938.5952	0.0833	0.6941	8,147.5188

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2241	9.3073	2.7347	0.0389	1.5193	0.0632	1.5825	0.4375	0.0605	0.4980		4,104.3538	4,104.3538	0.0141	0.6029	4,284.3709
Worker	1.2357	0.5603	11.1921	0.0366	4.9371	0.0165	4.9536	1.3095	0.0152	1.3247		3,698.3871	3,698.3871	0.0637	0.0792	3,723.5808
Total	1.4599	9.8675	13.9267	0.0755	6.4563	0.0797	6.5360	1.7471	0.0756	1.8227		7,802.7409	7,802.7409	0.0778	0.6821	8,007.9516

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2241	9.3073	2.7347	0.0389	1.5193	0.0632	1.5825	0.4375	0.0605	0.4980		4,104.3538	4,104.3538	0.0141	0.6029	4,284.3709
Worker	1.2357	0.5603	11.1921	0.0366	4.9371	0.0165	4.9536	1.3095	0.0152	1.3247		3,698.3871	3,698.3871	0.0637	0.0792	3,723.5808
Total	1.4599	9.8675	13.9267	0.0755	6.4563	0.0797	6.5360	1.7471	0.0756	1.8227		7,802.7409	7,802.7409	0.0778	0.6821	8,007.9516

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2228	9.2884	2.7301	0.0384	1.5193	0.0630	1.5822	0.4375	0.0602	0.4978		4,051.8576	4,051.8576	0.0141	0.5948	4,229.4537
Worker	1.1483	0.5244	10.7708	0.0359	4.9371	0.0154	4.9525	1.3095	0.0142	1.3238		3,630.5585	3,630.5585	0.0590	0.0769	3,654.9629
Total	1.3711	9.8127	13.5008	0.0743	6.4564	0.0784	6.5348	1.7471	0.0744	1.8215		7,682.4161	7,682.4161	0.0731	0.6717	7,884.4166

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 1E BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.2228	9.2884	2.7301	0.0384	1.5193	0.0630	1.5822	0.4375	0.0602	0.4978		4,051.8576	4,051.8576	0.0141	0.5948	4,229.4537
Worker	1.1483	0.5244	10.7708	0.0359	4.9371	0.0154	4.9525	1.3095	0.0142	1.3238		3,630.5585	3,630.5585	0.0590	0.0769	3,654.9629
Total	1.3711	9.8127	13.5008	0.0743	6.4564	0.0784	6.5348	1.7471	0.0744	1.8215		7,682.4161	7,682.4161	0.0731	0.6717	7,884.4166

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2033

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0287	0.0131	0.2688	9.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		90.6129	90.6129	1.4700e-003	1.9200e-003	91.2220
Total	0.0287	0.0131	0.2688	9.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		90.6129	90.6129	1.4700e-003	1.9200e-003	91.2220

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2033

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0287	0.0131	0.2688	9.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		90.6129	90.6129	1.4700e-003	1.9200e-003	91.2220
Total	0.0287	0.0131	0.2688	9.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.5000e-004	0.0330		90.6129	90.6129	1.4700e-003	1.9200e-003	91.2220

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2034

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0267	0.0124	0.2597	8.8000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		89.1164	89.1164	1.3700e-003	1.8700e-003	89.7094
Total	0.0267	0.0124	0.2597	8.8000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		89.1164	89.1164	1.3700e-003	1.8700e-003	89.7094

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 1E P - 2034

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0267	0.0124	0.2597	8.8000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		89.1164	89.1164	1.3700e-003	1.8700e-003	89.7094
Total	0.0267	0.0124	0.2597	8.8000e-004	0.1232	3.6000e-004	0.1236	0.0327	3.3000e-004	0.0330		89.1164	89.1164	1.3700e-003	1.8700e-003	89.7094

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1E AC - 2034

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	62.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	62.5278	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.2138	0.0989	2.0777	7.0500e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		712.9315	712.9315	0.0110	0.0150	717.6752
Total	0.2138	0.0989	2.0777	7.0500e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		712.9315	712.9315	0.0110	0.0150	717.6752

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 1E AC - 2034

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	62.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	62.5278	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.2138	0.0989	2.0777	7.0500e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		712.9315	712.9315	0.0110	0.0150	717.6752
Total	0.2138	0.0989	2.0777	7.0500e-003	0.9858	2.8900e-003	0.9887	0.2615	2.6600e-003	0.2641		712.9315	712.9315	0.0110	0.0150	717.6752

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Elementary School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

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

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
City Park	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
Elementary School	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
Single Family Housing	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

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City Park	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
Elementary School	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
Single Family Housing	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

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389
Unmitigated	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7883	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454		47.3044	47.3044	0.0454		48.4389
Total	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7883	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454		47.3044	47.3044	0.0454		48.4389
Total	13.8752	0.3016	26.1599	1.3900e-003		0.1454	0.1454		0.1454	0.1454	0.0000	47.3044	47.3044	0.0454	0.0000	48.4389

7.0 Water Detail

7.1 Mitigation Measures Water

VST_1E Unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_phase2 mitigated

Merced County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	45.60	Acre	45.60	1,986,336.00	0
Apartments High Rise	336.00	Dwelling Unit	11.97	336,000.00	961
Condo/Townhouse	140.00	Dwelling Unit	8.60	168,000.00	400
Single Family Housing	105.00	Dwelling Unit	41.86	431,250.00	300
Single Family Housing	171.00	Dwelling Unit	40.24	470,250.00	489
Single Family Housing	326.00	Dwelling Unit	54.57	489,000.00	932
Single Family Housing	13.00	Dwelling Unit	2.07	24,700.00	37
Single Family Housing	225.00	Dwelling Unit	25.78	270,000.00	644
Regional Shopping Center	54.50	1000sqft	1.25	54,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (phase 2)

Construction Phase - Dates from modeling data document and project description

Off-road Equipment - defaults

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - 100% SF residential electricity from solar, MF 25% more efficient than title 24

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 40 mph speed limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	27250	0
tblAreaCoating	Area_Nonresidential_Interior	81750	0
tblAreaCoating	Area_Residential_Exterior	1477710	0
tblAreaCoating	Area_Residential_Interior	4433130	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	180.00	67.00
tblConstructionPhase	NumDays	465.00	183.00
tblConstructionPhase	NumDays	4,650.00	1,849.00

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	330.00	125.00
tblConstructionPhase	NumDays	330.00	125.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	184.80	0.00
tblFireplaces	NumberGas	77.00	0.00
tblFireplaces	NumberGas	462.00	0.00
tblFireplaces	NumberNoFireplace	151.20	0.00
tblFireplaces	NumberNoFireplace	63.00	0.00
tblFireplaces	NumberNoFireplace	378.00	0.00
tblGrading	AcresOfGrading	549.00	232.00

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblGrading	AcresOfGrading	100.50	232.00
tblLandUse	LandUseSquareFeet	140,000.00	168,000.00
tblLandUse	LandUseSquareFeet	189,000.00	431,250.00
tblLandUse	LandUseSquareFeet	23,400.00	24,700.00
tblLandUse	LandUseSquareFeet	307,800.00	470,250.00
tblLandUse	LandUseSquareFeet	405,000.00	270,000.00
tblLandUse	LandUseSquareFeet	586,800.00	489,000.00
tblLandUse	LotAcreage	5.42	11.97
tblLandUse	LotAcreage	8.75	8.60
tblLandUse	LotAcreage	34.09	41.86
tblLandUse	LotAcreage	4.22	2.07
tblLandUse	LotAcreage	55.52	40.24
tblLandUse	LotAcreage	73.05	25.78
tblLandUse	LotAcreage	105.84	54.57
tblSolidWaste	SolidWasteGenerationRate	154.56	0.00
tblSolidWaste	SolidWasteGenerationRate	3.92	0.00
tblSolidWaste	SolidWasteGenerationRate	64.40	0.00
tblSolidWaste	SolidWasteGenerationRate	57.23	0.00
tblSolidWaste	SolidWasteGenerationRate	864.72	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	21,891,752.61	0.00
tblWater	IndoorWaterUseRate	9,121,563.59	0.00
tblWater	IndoorWaterUseRate	4,036,952.42	0.00
tblWater	IndoorWaterUseRate	54,729,381.52	0.00
tblWater	OutdoorWaterUseRate	13,801,322.30	0.00
tblWater	OutdoorWaterUseRate	54,331,549.54	0.00
tblWater	OutdoorWaterUseRate	5,750,550.96	0.00
tblWater	OutdoorWaterUseRate	2,474,261.16	0.00
tblWater	OutdoorWaterUseRate	34,503,305.74	0.00
tblWoodstoves	NumberCatalytic	11.97	0.00
tblWoodstoves	NumberCatalytic	8.60	0.00
tblWoodstoves	NumberCatalytic	164.52	0.00
tblWoodstoves	NumberNoncatalytic	11.97	0.00
tblWoodstoves	NumberNoncatalytic	8.60	0.00
tblWoodstoves	NumberNoncatalytic	164.52	0.00

2.0 Emissions Summary

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	3.3289	13.8681	23.4326	0.0712	21.8863	0.4886	22.3235	10.3664	0.4885	10.8036	0.0000	7,341.5910	7,341.5910	0.2940	2.8400e-003	7,349.7882
2031	5.1105	29.2228	51.0911	0.2076	15.5192	0.4885	15.8458	4.1897	0.4885	4.5070	0.0000	21,129.4895	21,129.4895	0.3184	1.5022	21,585.1090
2032	4.8625	29.0666	49.8336	0.2046	15.5192	0.3232	15.8424	4.1897	0.3141	4.5038	0.0000	20,813.0979	20,813.0979	0.3048	1.4758	21,260.4902
2033	4.6418	28.9371	48.7745	0.2018	15.5192	0.3201	15.8393	4.1897	0.3112	4.5009	0.0000	20,532.8270	20,532.8270	0.2931	1.4529	20,973.1196
2034	4.4466	28.8155	47.8618	0.1994	15.5192	0.3171	15.8363	4.1897	0.3084	4.4981	0.0000	20,282.8097	20,282.8097	0.2828	1.4328	20,716.8496
2035	4.1817	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2036	4.1817	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2037	4.1817	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2038	112.2244	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2039	112.2244	0.9929	6.8179	0.0203	2.4562	0.0167	2.4729	0.6515	0.0161	0.6676	0.0000	2,031.6286	2,031.6286	0.0360	0.0367	2,043.4499
Maximum	112.2244	29.2228	51.0911	0.2076	21.8863	0.4886	22.3235	10.3664	0.4885	10.8036	0.0000	21,129.4895	21,129.4895	0.3184	1.5022	21,585.1090

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
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
Total	51.3533	1.2483	108.2002	5.7300e-003	0.0000	0.6021	0.6021	0.0000	0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

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	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
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
Total	51.3533	1.2483	108.2002	5.7300e-003	0.0000	0.6021	0.6021	0.0000	0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	2 SP	Site Preparation	3/1/2030	6/3/2030	5	67	
2	2 G	Grading	6/4/2030	2/13/2031	5	183	
3	2 BC	Building Construction	2/14/2031	3/17/2038	5	1849	
4	2 P	Paving	3/18/2038	9/8/2038	5	125	
5	2 AC	Architectural Coating	9/9/2038	3/2/2039	5	125	

Acres of Grading (Site Preparation Phase): 232

Acres of Grading (Grading Phase): 232

Acres of Paving: 0

Residential Indoor: 4,433,130; Residential Outdoor: 1,477,710; Non-Residential Indoor: 81,750; Non-Residential Outdoor: 27,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
2 SP	Rubber Tired Dozers	3	8.00	247	0.40
2 SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
2 G	Excavators	2	8.00	158	0.38
2 G	Graders	1	8.00	187	0.41
2 G	Rubber Tired Dozers	1	8.00	247	0.40
2 G	Scrapers	2	8.00	367	0.48

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2 G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
2 BC	Cranes	1	7.00	231	0.29
2 BC	Forklifts	3	8.00	89	0.20
2 BC	Generator Sets	1	8.00	84	0.74
2 BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
2 BC	Welders	1	8.00	46	0.45
2 P	Pavers	2	8.00	130	0.42
2 P	Paving Equipment	2	8.00	132	0.36
2 P	Rollers	2	8.00	80	0.38
2 AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
2 SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 BC	9	1,497.00	475.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 AC	1	299.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 2 SP - 2030

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					21.7384	0.0000	21.7384	10.3272	0.0000	10.3272			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	21.7384	0.4367	22.1751	10.3272	0.4367	10.7639		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527
Total	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 2 SP - 2030

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					9.7823	0.0000	9.7823	4.6472	0.0000	4.6472			0.0000			0.0000
Off-Road	0.5300	2.4319	20.8705	0.0466		0.0688	0.0688		0.0688	0.0688	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	0.5300	2.4319	20.8705	0.0466	9.7823	0.0688	9.8511	4.6472	0.0688	4.7160	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527
Total	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2030

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					7.3666	0.0000	7.3666	3.4554	0.0000	3.4554			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.3666	0.4879	7.8545	3.4554	0.4879	3.9433		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919
Total	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2030

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					3.3150	0.0000	3.3150	1.5549	0.0000	1.5549			0.0000			0.0000
Off-Road	0.7938	3.5073	32.9999	0.0699		0.1049	0.1049		0.1049	0.1049	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	0.7938	3.5073	32.9999	0.0699	3.3150	0.1049	3.4198	1.5549	0.1049	1.6598	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919
Total	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2031

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					7.3666	0.0000	7.3666	3.4554	0.0000	3.4554			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.3666	0.4879	7.8545	3.4554	0.4879	3.9433		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885
Total	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2031

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					3.3150	0.0000	3.3150	1.5549	0.0000	1.5549			0.0000			0.0000
Off-Road	0.7938	3.5073	32.9999	0.0699		0.1049	0.1049		0.1049	0.1049	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	0.7938	3.5073	32.9999	0.0699	3.3150	0.1049	3.4198	1.5549	0.1049	1.6598	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885
Total	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4794	19.7836	5.8223	0.0837	3.2217	0.1346	3.3563	0.9278	0.1288	1.0566		8,829.4134	8,829.4134	0.0302	1.2981	9,216.9923
Worker	3.3220	1.5046	29.1118	0.0930	12.2975	0.0438	12.3413	3.2619	0.0403	3.3022		9,402.5293	9,402.5293	0.1720	0.2041	9,467.6639
Total	3.8014	21.2882	34.9342	0.1767	15.5192	0.1785	15.6977	4.1897	0.1691	4.3588		18,231.9428	18,231.9428	0.2022	1.5022	18,684.6562

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2031

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4794	19.7836	5.8223	0.0837	3.2217	0.1346	3.3563	0.9278	0.1288	1.0566		8,829.4134	8,829.4134	0.0302	1.2981	9,216.9923
Worker	3.3220	1.5046	29.1118	0.0930	12.2975	0.0438	12.3413	3.2619	0.0403	3.3022		9,402.5293	9,402.5293	0.1720	0.2041	9,467.6639
Total	3.8014	21.2882	34.9342	0.1767	15.5192	0.1785	15.6977	4.1897	0.1691	4.3588		18,231.9428	18,231.9428	0.2022	1.5022	18,684.6562

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4753	19.7364	5.7990	0.0825	3.2217	0.1341	3.3557	0.9278	0.1282	1.0560		8,703.4288	8,703.4288	0.0300	1.2785	9,085.1615
Worker	3.0780	1.3956	27.8777	0.0911	12.2975	0.0410	12.3385	3.2619	0.0378	3.2996		9,212.1224	9,212.1224	0.1586	0.1973	9,274.8759
Total	3.5533	21.1320	33.6767	0.1736	15.5192	0.1751	15.6943	4.1897	0.1660	4.3557		17,915.5512	17,915.5512	0.1886	1.4758	18,360.0373

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2032

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4753	19.7364	5.7990	0.0825	3.2217	0.1341	3.3557	0.9278	0.1282	1.0560		8,703.4288	8,703.4288	0.0300	1.2785	9,085.1615
Worker	3.0780	1.3956	27.8777	0.0911	12.2975	0.0410	12.3385	3.2619	0.0378	3.2996		9,212.1224	9,212.1224	0.1586	0.1973	9,274.8759
Total	3.5533	21.1320	33.6767	0.1736	15.5192	0.1751	15.6943	4.1897	0.1660	4.3557		17,915.5512	17,915.5512	0.1886	1.4758	18,360.0373

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4724	19.6963	5.7892	0.0814	3.2217	0.1335	3.3552	0.9278	0.1277	1.0555		8,592.1087	8,592.1087	0.0299	1.2613	8,968.7076
Worker	2.8603	1.3062	26.8283	0.0895	12.2975	0.0385	12.3360	3.2619	0.0354	3.2973		9,043.1715	9,043.1715	0.1470	0.1917	9,103.9591
Total	3.3327	21.0024	32.6175	0.1709	15.5192	0.1720	15.6911	4.1897	0.1631	4.3528		17,635.2802	17,635.2802	0.1768	1.4529	18,072.6667

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2033

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4724	19.6963	5.7892	0.0814	3.2217	0.1335	3.3552	0.9278	0.1277	1.0555		8,592.1087	8,592.1087	0.0299	1.2613	8,968.7076
Worker	2.8603	1.3062	26.8283	0.0895	12.2975	0.0385	12.3360	3.2619	0.0354	3.2973		9,043.1715	9,043.1715	0.1470	0.1917	9,103.9591
Total	3.3327	21.0024	32.6175	0.1709	15.5192	0.1720	15.6911	4.1897	0.1631	4.3528		17,635.2802	17,635.2802	0.1768	1.4529	18,072.6667

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2034

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4701	19.6469	5.7853	0.0805	3.2217	0.1328	3.3545	0.9278	0.1271	1.0549		8,491.4422	8,491.4422	0.0298	1.2457	8,863.3987
Worker	2.6674	1.2340	25.9195	0.0880	12.2975	0.0361	12.3336	3.2619	0.0332	3.2951		8,893.8208	8,893.8208	0.1368	0.1871	8,952.9980
Total	3.1375	20.8809	31.7048	0.1685	15.5192	0.1689	15.6881	4.1897	0.1603	4.3500		17,385.2629	17,385.2629	0.1665	1.4328	17,816.3967

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2034

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4701	19.6469	5.7853	0.0805	3.2217	0.1328	3.3545	0.9278	0.1271	1.0549		8,491.4422	8,491.4422	0.0298	1.2457	8,863.3987
Worker	2.6674	1.2340	25.9195	0.0880	12.2975	0.0361	12.3336	3.2619	0.0332	3.2951		8,893.8208	8,893.8208	0.1368	0.1871	8,952.9980
Total	3.1375	20.8809	31.7048	0.1685	15.5192	0.1689	15.6881	4.1897	0.1603	4.3500		17,385.2629	17,385.2629	0.1665	1.4328	17,816.3967

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2035

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2035

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	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2036

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2036

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	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2037

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2037

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	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2038

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2038

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	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 2 P - 2038

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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727

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	0.0250	0.0118	0.2520	8.7000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		87.8017	87.8017	1.2800e-003	1.8400e-003	88.3817
Total	0.0250	0.0118	0.2520	8.7000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		87.8017	87.8017	1.2800e-003	1.8400e-003	88.3817

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 2 P - 2038

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	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726

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	0.0250	0.0118	0.2520	8.7000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		87.8017	87.8017	1.2800e-003	1.8400e-003	88.3817
Total	0.0250	0.0118	0.2520	8.7000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		87.8017	87.8017	1.2800e-003	1.8400e-003	88.3817

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2038

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

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	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419
Total	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2038

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

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	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419
Total	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2039

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

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	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419
Total	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2039

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

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	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419
Total	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Condo/Townhouse	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Regional Shopping Center	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Regional Shopping Center	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
Single Family Housing	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

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Regional Shopping Center	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
Single Family Housing	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

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
Unmitigated	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	48.1175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2358	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021		195.5167	195.5167	0.1862		200.1706
Total	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	48.1175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2358	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021		195.5167	195.5167	0.1862		200.1706
Total	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

7.0 Water Detail

7.1 Mitigation Measures Water

VST_phase2 mitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_phase2 mitigated
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	45.60	Acre	45.60	1,986,336.00	0
Apartments High Rise	336.00	Dwelling Unit	11.97	336,000.00	961
Condo/Townhouse	140.00	Dwelling Unit	8.60	168,000.00	400
Single Family Housing	105.00	Dwelling Unit	41.86	431,250.00	300
Single Family Housing	171.00	Dwelling Unit	40.24	470,250.00	489
Single Family Housing	326.00	Dwelling Unit	54.57	489,000.00	932
Single Family Housing	13.00	Dwelling Unit	2.07	24,700.00	37
Single Family Housing	225.00	Dwelling Unit	25.78	270,000.00	644
Regional Shopping Center	54.50	1000sqft	1.25	54,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (phase 2)

Construction Phase - Dates from modeling data document and project description

Off-road Equipment - defaults

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - 100% SF residential electricity from solar, MF 25% more efficient than title 24

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 40 mph speed limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	27250	0
tblAreaCoating	Area_Nonresidential_Interior	81750	0
tblAreaCoating	Area_Residential_Exterior	1477710	0
tblAreaCoating	Area_Residential_Interior	4433130	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	180.00	67.00
tblConstructionPhase	NumDays	465.00	183.00
tblConstructionPhase	NumDays	4,650.00	1,849.00

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	330.00	125.00
tblConstructionPhase	NumDays	330.00	125.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	184.80	0.00
tblFireplaces	NumberGas	77.00	0.00
tblFireplaces	NumberGas	462.00	0.00
tblFireplaces	NumberNoFireplace	151.20	0.00
tblFireplaces	NumberNoFireplace	63.00	0.00
tblFireplaces	NumberNoFireplace	378.00	0.00
tblGrading	AcresOfGrading	549.00	232.00

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblGrading	AcresOfGrading	100.50	232.00
tblLandUse	LandUseSquareFeet	140,000.00	168,000.00
tblLandUse	LandUseSquareFeet	189,000.00	431,250.00
tblLandUse	LandUseSquareFeet	23,400.00	24,700.00
tblLandUse	LandUseSquareFeet	307,800.00	470,250.00
tblLandUse	LandUseSquareFeet	405,000.00	270,000.00
tblLandUse	LandUseSquareFeet	586,800.00	489,000.00
tblLandUse	LotAcreage	5.42	11.97
tblLandUse	LotAcreage	8.75	8.60
tblLandUse	LotAcreage	34.09	41.86
tblLandUse	LotAcreage	4.22	2.07
tblLandUse	LotAcreage	55.52	40.24
tblLandUse	LotAcreage	73.05	25.78
tblLandUse	LotAcreage	105.84	54.57
tblSolidWaste	SolidWasteGenerationRate	154.56	0.00
tblSolidWaste	SolidWasteGenerationRate	3.92	0.00
tblSolidWaste	SolidWasteGenerationRate	64.40	0.00
tblSolidWaste	SolidWasteGenerationRate	57.23	0.00
tblSolidWaste	SolidWasteGenerationRate	864.72	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	21,891,752.61	0.00
tblWater	IndoorWaterUseRate	9,121,563.59	0.00
tblWater	IndoorWaterUseRate	4,036,952.42	0.00
tblWater	IndoorWaterUseRate	54,729,381.52	0.00
tblWater	OutdoorWaterUseRate	13,801,322.30	0.00
tblWater	OutdoorWaterUseRate	54,331,549.54	0.00
tblWater	OutdoorWaterUseRate	5,750,550.96	0.00
tblWater	OutdoorWaterUseRate	2,474,261.16	0.00
tblWater	OutdoorWaterUseRate	34,503,305.74	0.00
tblWoodstoves	NumberCatalytic	11.97	0.00
tblWoodstoves	NumberCatalytic	8.60	0.00
tblWoodstoves	NumberCatalytic	164.52	0.00
tblWoodstoves	NumberNoncatalytic	11.97	0.00
tblWoodstoves	NumberNoncatalytic	8.60	0.00
tblWoodstoves	NumberNoncatalytic	164.52	0.00

2.0 Emissions Summary

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	3.3241	13.8721	23.3797	0.0711	21.8863	0.4886	22.3235	10.3664	0.4885	10.8036	0.0000	7,328.096 1	7,328.096 1	0.2943	3.1700e- 003	7,336.400 4
2031	4.7506	30.8614	47.5698	0.1980	15.5192	0.4885	15.8461	4.1897	0.4885	4.5073	0.0000	20,160.36 19	20,160.36 19	0.3396	1.5298	20,624.74 22
2032	4.5316	30.6815	46.5078	0.1952	15.5192	0.3236	15.8427	4.1897	0.3145	4.5041	0.0000	19,863.89 31	19,863.89 31	0.3248	1.5024	20,319.73 90
2033	4.3376	30.5330	45.6112	0.1926	15.5192	0.3204	15.8396	4.1897	0.3116	4.5012	0.0000	19,601.22 61	19,601.22 61	0.3120	1.4788	20,049.71 99
2034	4.1690	30.3954	44.8369	0.1903	15.5192	0.3174	15.8366	4.1897	0.3087	4.4984	0.0000	19,366.73 83	19,366.73 83	0.3007	1.4581	19,808.77 41
2035	3.9290	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.52 37	19,159.52 37	0.2826	1.4402	19,595.76 88
2036	3.9290	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.52 37	19,159.52 37	0.2826	1.4402	19,595.76 88
2037	3.9290	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.52 37	19,159.52 37	0.2826	1.4402	19,595.76 88
2038	112.1807	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.52 37	19,159.52 37	0.2826	1.4402	19,595.76 88
2039	112.1807	1.0350	6.1954	0.0185	2.4562	0.0167	2.4729	0.6515	0.0161	0.6676	0.0000	1,847.874 4	1,847.874 4	0.0396	0.0409	1,861.049 8
Maximum	112.1807	30.8614	47.5698	0.1980	21.8863	0.4886	22.3235	10.3664	0.4885	10.8036	0.0000	20,160.36 19	20,160.36 19	0.3396	1.5298	20,624.74 22

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
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
Total	51.3533	1.2483	108.2002	5.7300e-003	0.0000	0.6021	0.6021	0.0000	0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

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	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
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
Total	51.3533	1.2483	108.2002	5.7300e-003	0.0000	0.6021	0.6021	0.0000	0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	2 SP	Site Preparation	3/1/2030	6/3/2030	5	67	
2	2 G	Grading	6/4/2030	2/13/2031	5	183	
3	2 BC	Building Construction	2/14/2031	3/17/2038	5	1849	
4	2 P	Paving	3/18/2038	9/8/2038	5	125	
5	2 AC	Architectural Coating	9/9/2038	3/2/2039	5	125	

Acres of Grading (Site Preparation Phase): 232

Acres of Grading (Grading Phase): 232

Acres of Paving: 0

Residential Indoor: 4,433,130; Residential Outdoor: 1,477,710; Non-Residential Indoor: 81,750; Non-Residential Outdoor: 27,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
2 SP	Rubber Tired Dozers	3	8.00	247	0.40
2 SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
2 G	Excavators	2	8.00	158	0.38
2 G	Graders	1	8.00	187	0.41
2 G	Rubber Tired Dozers	1	8.00	247	0.40
2 G	Scrapers	2	8.00	367	0.48

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2 G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
2 BC	Cranes	1	7.00	231	0.29
2 BC	Forklifts	3	8.00	89	0.20
2 BC	Generator Sets	1	8.00	84	0.74
2 BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
2 BC	Welders	1	8.00	46	0.45
2 P	Pavers	2	8.00	130	0.42
2 P	Paving Equipment	2	8.00	132	0.36
2 P	Rollers	2	8.00	80	0.38
2 AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
2 SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 BC	9	1,497.00	475.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 AC	1	299.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 2 SP - 2030

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					21.7384	0.0000	21.7384	10.3272	0.0000	10.3272			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	21.7384	0.4367	22.1751	10.3272	0.4367	10.7639		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037
Total	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 2 SP - 2030

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					9.7823	0.0000	9.7823	4.6472	0.0000	4.6472			0.0000			0.0000
Off-Road	0.5300	2.4319	20.8705	0.0466		0.0688	0.0688		0.0688	0.0688	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	0.5300	2.4319	20.8705	0.0466	9.7823	0.0688	9.8511	4.6472	0.0688	4.7160	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037
Total	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2030

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					7.3666	0.0000	7.3666	3.4554	0.0000	3.4554			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.3666	0.4879	7.8545	3.4554	0.4879	3.9433		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041
Total	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2030

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					3.3150	0.0000	3.3150	1.5549	0.0000	1.5549			0.0000			0.0000
Off-Road	0.7938	3.5073	32.9999	0.0699		0.1049	0.1049		0.1049	0.1049	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	0.7938	3.5073	32.9999	0.0699	3.3150	0.1049	3.4198	1.5549	0.1049	1.6598	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041
Total	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2031

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					7.3666	0.0000	7.3666	3.4554	0.0000	3.4554			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.3666	0.4879	7.8545	3.4554	0.4879	3.9433		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011
Total	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2031

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					3.3150	0.0000	3.3150	1.5549	0.0000	1.5549			0.0000			0.0000
Off-Road	0.7938	3.5073	32.9999	0.0699		0.1049	0.1049		0.1049	0.1049	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	0.7938	3.5073	32.9999	0.0699	3.3150	0.1049	3.4198	1.5549	0.1049	1.6598	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011
Total	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4460	21.1503	6.0244	0.0838	3.2217	0.1350	3.3567	0.9278	0.1291	1.0569		8,847.5401	8,847.5401	0.0288	1.3019	9,236.2189
Worker	2.9955	1.7765	25.3884	0.0833	12.2975	0.0438	12.3413	3.2619	0.0403	3.3022		8,415.2750	8,415.2750	0.1946	0.2280	8,488.0704
Total	3.4414	22.9268	31.4128	0.1671	15.5192	0.1788	15.6980	4.1897	0.1695	4.3591		17,262.8152	17,262.8152	0.2234	1.5298	17,724.2893

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2031

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4460	21.1503	6.0244	0.0838	3.2217	0.1350	3.3567	0.9278	0.1291	1.0569		8,847.5401	8,847.5401	0.0288	1.3019	9,236.2189
Worker	2.9955	1.7765	25.3884	0.0833	12.2975	0.0438	12.3413	3.2619	0.0403	3.3022		8,415.2750	8,415.2750	0.1946	0.2280	8,488.0704
Total	3.4414	22.9268	31.4128	0.1671	15.5192	0.1788	15.6980	4.1897	0.1695	4.3591		17,262.8152	17,262.8152	0.2234	1.5298	17,724.2893

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4418	21.1000	6.0014	0.0826	3.2217	0.1344	3.3561	0.9278	0.1286	1.0564		8,721.3464	8,721.3464	0.0286	1.2822	9,104.1618
Worker	2.7807	1.6469	24.3494	0.0816	12.2975	0.0410	12.3385	3.2619	0.0378	3.2996		8,245.0000	8,245.0000	0.1800	0.2202	8,315.1243
Total	3.2224	22.7469	30.3508	0.1642	15.5192	0.1754	15.6946	4.1897	0.1663	4.3560		16,966.3464	16,966.3464	0.2086	1.5024	17,419.2861

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2032

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4418	21.1000	6.0014	0.0826	3.2217	0.1344	3.3561	0.9278	0.1286	1.0564		8,721.3464	8,721.3464	0.0286	1.2822	9,104.1618
Worker	2.7807	1.6469	24.3494	0.0816	12.2975	0.0410	12.3385	3.2619	0.0378	3.2996		8,245.0000	8,245.0000	0.1800	0.2202	8,315.1243
Total	3.2224	22.7469	30.3508	0.1642	15.5192	0.1754	15.6946	4.1897	0.1663	4.3560		16,966.3464	16,966.3464	0.2086	1.5024	17,419.2861

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4387	21.0577	5.9924	0.0816	3.2217	0.1338	3.3555	0.9278	0.1280	1.0558		8,609.8753	8,609.8753	0.0284	1.2650	8,987.5440
Worker	2.5898	1.5407	23.4618	0.0801	12.2975	0.0385	12.3360	3.2619	0.0354	3.2973		8,093.8041	8,093.8041	0.1673	0.2139	8,161.7230
Total	3.0285	22.5984	29.4542	0.1617	15.5192	0.1723	15.6915	4.1897	0.1634	4.3531		16,703.6793	16,703.6793	0.1958	1.4788	17,149.2670

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2033

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4387	21.0577	5.9924	0.0816	3.2217	0.1338	3.3555	0.9278	0.1280	1.0558		8,609.8753	8,609.8753	0.0284	1.2650	8,987.5440
Worker	2.5898	1.5407	23.4618	0.0801	12.2975	0.0385	12.3360	3.2619	0.0354	3.2973		8,093.8041	8,093.8041	0.1673	0.2139	8,161.7230
Total	3.0285	22.5984	29.4542	0.1617	15.5192	0.1723	15.6915	4.1897	0.1634	4.3531		16,703.6793	16,703.6793	0.1958	1.4788	17,149.2670

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2034

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4362	21.0058	5.9893	0.0806	3.2217	0.1332	3.3549	0.9278	0.1274	1.0552		8,509.0879	8,509.0879	0.0284	1.2494	8,882.1043
Worker	2.4237	1.4551	22.6906	0.0788	12.2975	0.0361	12.3336	3.2619	0.0332	3.2951		7,960.1037	7,960.1037	0.1561	0.2088	8,026.2169
Total	2.8599	22.4608	28.6799	0.1594	15.5192	0.1693	15.6884	4.1897	0.1606	4.3503		16,469.1915	16,469.1915	0.1844	1.4581	16,908.3212

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2034

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	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	0.4902	2.6976	17.5660	0.0310		0.0587	0.0587		0.0587	0.0587	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4362	21.0058	5.9893	0.0806	3.2217	0.1332	3.3549	0.9278	0.1274	1.0552		8,509.0879	8,509.0879	0.0284	1.2494	8,882.1043
Worker	2.4237	1.4551	22.6906	0.0788	12.2975	0.0361	12.3336	3.2619	0.0332	3.2951		7,960.1037	7,960.1037	0.1561	0.2088	8,026.2169
Total	2.8599	22.4608	28.6799	0.1594	15.5192	0.1693	15.6884	4.1897	0.1606	4.3503		16,469.1915	16,469.1915	0.1844	1.4581	16,908.3212

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2035

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2035

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	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2036

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2036

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	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2037

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2037

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	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2038

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2038

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	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	0.4717	2.6311	17.5518	0.0310		0.0483	0.0483		0.0483	0.0483	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 2 P - 2038

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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727

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	0.0228	0.0139	0.2208	7.8000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		78.5833	78.5833	1.4700e-003	2.0500e-003	79.2312
Total	0.0228	0.0139	0.2208	7.8000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		78.5833	78.5833	1.4700e-003	2.0500e-003	79.2312

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 2 P - 2038

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	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726

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	0.0228	0.0139	0.2208	7.8000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		78.5833	78.5833	1.4700e-003	2.0500e-003	79.2312
Total	0.0228	0.0139	0.2208	7.8000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		78.5833	78.5833	1.4700e-003	2.0500e-003	79.2312

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2038

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

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	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417
Total	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2038

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

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	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417
Total	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2039

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

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	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417
Total	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2039

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

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	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417
Total	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Condo/Townhouse	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Regional Shopping Center	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Regional Shopping Center	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
Single Family Housing	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

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Regional Shopping Center	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
Single Family Housing	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

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
Unmitigated	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	48.1175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2358	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021		195.5167	195.5167	0.1862		200.1706
Total	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	48.1175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2358	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021		195.5167	195.5167	0.1862		200.1706
Total	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

7.0 Water Detail

7.1 Mitigation Measures Water

VST_phase2 mitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

VST_phase2 unmitigated

Merced County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	45.60	Acre	45.60	1,986,336.00	0
Apartments High Rise	336.00	Dwelling Unit	11.97	336,000.00	961
Condo/Townhouse	140.00	Dwelling Unit	8.60	168,000.00	400
Single Family Housing	105.00	Dwelling Unit	41.86	431,250.00	300
Single Family Housing	171.00	Dwelling Unit	40.24	470,250.00	489
Single Family Housing	326.00	Dwelling Unit	54.57	489,000.00	932
Single Family Housing	13.00	Dwelling Unit	2.07	24,700.00	37
Single Family Housing	225.00	Dwelling Unit	25.78	270,000.00	644
Regional Shopping Center	54.50	1000sqft	1.25	54,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (phase 2)

Construction Phase - Dates from modeling data document and project description

Off-road Equipment - defaults

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - 100% SF residential electricity from solar, MF 25% more efficient than title 24

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 40 mph speed limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	27250	0
tblAreaCoating	Area_Nonresidential_Interior	81750	0
tblAreaCoating	Area_Residential_Exterior	1477710	0
tblAreaCoating	Area_Residential_Interior	4433130	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	180.00	67.00
tblConstructionPhase	NumDays	465.00	183.00
tblConstructionPhase	NumDays	4,650.00	1,849.00
tblConstructionPhase	NumDays	330.00	125.00
tblConstructionPhase	NumDays	330.00	125.00
tblConstructionPhase	PhaseEndDate	9/9/2030	6/3/2030
tblConstructionPhase	PhaseEndDate	6/21/2032	2/13/2031
tblConstructionPhase	PhaseEndDate	4/18/2050	3/17/2038
tblConstructionPhase	PhaseEndDate	7/24/2051	9/8/2038
tblConstructionPhase	PhaseEndDate	10/28/2052	3/2/2039
tblConstructionPhase	PhaseStartDate	1/1/2030	3/1/2030
tblConstructionPhase	PhaseStartDate	9/10/2030	6/4/2030
tblConstructionPhase	PhaseStartDate	6/22/2032	2/14/2031
tblConstructionPhase	PhaseStartDate	4/19/2050	3/18/2038
tblConstructionPhase	PhaseStartDate	7/25/2051	9/9/2038
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	184.80	0.00
tblFireplaces	NumberGas	77.00	0.00
tblFireplaces	NumberGas	462.00	0.00
tblFireplaces	NumberNoFireplace	151.20	0.00
tblFireplaces	NumberNoFireplace	63.00	0.00
tblFireplaces	NumberNoFireplace	378.00	0.00
tblGrading	AcresOfGrading	549.00	232.00
tblGrading	AcresOfGrading	100.50	232.00
tblLandUse	LandUseSquareFeet	140,000.00	168,000.00
tblLandUse	LandUseSquareFeet	189,000.00	431,250.00
tblLandUse	LandUseSquareFeet	23,400.00	24,700.00
tblLandUse	LandUseSquareFeet	307,800.00	470,250.00
tblLandUse	LandUseSquareFeet	405,000.00	270,000.00
tblLandUse	LandUseSquareFeet	586,800.00	489,000.00
tblLandUse	LotAcreage	5.42	11.97
tblLandUse	LotAcreage	8.75	8.60
tblLandUse	LotAcreage	34.09	41.86
tblLandUse	LotAcreage	4.22	2.07
tblLandUse	LotAcreage	55.52	40.24
tblLandUse	LotAcreage	73.05	25.78
tblLandUse	LotAcreage	105.84	54.57

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	154.56	0.00
tblSolidWaste	SolidWasteGenerationRate	3.92	0.00
tblSolidWaste	SolidWasteGenerationRate	64.40	0.00
tblSolidWaste	SolidWasteGenerationRate	57.23	0.00
tblSolidWaste	SolidWasteGenerationRate	864.72	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	21,891,752.61	0.00
tblWater	IndoorWaterUseRate	9,121,563.59	0.00
tblWater	IndoorWaterUseRate	4,036,952.42	0.00
tblWater	IndoorWaterUseRate	54,729,381.52	0.00
tblWater	OutdoorWaterUseRate	13,801,322.30	0.00
tblWater	OutdoorWaterUseRate	54,331,549.54	0.00
tblWater	OutdoorWaterUseRate	5,750,550.96	0.00
tblWater	OutdoorWaterUseRate	2,474,261.16	0.00
tblWater	OutdoorWaterUseRate	34,503,305.74	0.00

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberCatalytic	11.97	0.00
tblWoodstoves	NumberCatalytic	8.60	0.00
tblWoodstoves	NumberCatalytic	164.52	0.00
tblWoodstoves	NumberNoncatalytic	11.97	0.00
tblWoodstoves	NumberNoncatalytic	8.60	0.00
tblWoodstoves	NumberNoncatalytic	164.52	0.00

2.0 Emissions Summary

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	3.3289	13.8681	23.4326	0.0712	21.8863	0.4886	22.3235	10.3664	0.4885	10.8036	0.0000	7,341.5910	7,341.5910	0.2940	2.8400e-003	7,349.7882
2031	5.1105	29.2228	51.0911	0.2076	15.5192	0.4885	15.8458	4.1897	0.4885	4.5070	0.0000	21,129.4895	21,129.4895	0.3184	1.5022	21,585.1090
2032	4.8625	29.0666	49.8336	0.2046	15.5192	0.3232	15.8424	4.1897	0.3141	4.5038	0.0000	20,813.0979	20,813.0979	0.3048	1.4758	21,260.4902
2033	4.6418	28.9371	48.7745	0.2018	15.5192	0.3201	15.8393	4.1897	0.3112	4.5009	0.0000	20,532.8270	20,532.8270	0.2931	1.4529	20,973.1196
2034	4.4466	28.8155	47.8618	0.1994	15.5192	0.3171	15.8363	4.1897	0.3084	4.4981	0.0000	20,282.8097	20,282.8097	0.2828	1.4328	20,716.8496
2035	4.1817	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2036	4.1817	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2037	4.1817	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2038	112.2244	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2039	112.2244	0.9929	6.8179	0.0203	2.4562	0.0167	2.4729	0.6515	0.0161	0.6676	0.0000	2,031.6286	2,031.6286	0.0360	0.0367	2,043.4499
Maximum	112.2244	29.2228	51.0911	0.2076	21.8863	0.4886	22.3235	10.3664	0.4885	10.8036	0.0000	21,129.4895	21,129.4895	0.3184	1.5022	21,585.1090

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
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
Total	51.3533	1.2483	108.2002	5.7300e-003	0.0000	0.6021	0.6021	0.0000	0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

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	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
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
Total	51.3533	1.2483	108.2002	5.7300e-003	0.0000	0.6021	0.6021	0.0000	0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	2 SP	Site Preparation	3/1/2030	6/3/2030	5	67	
2	2 G	Grading	6/4/2030	2/13/2031	5	183	
3	2 BC	Building Construction	2/14/2031	3/17/2038	5	1849	
4	2 P	Paving	3/18/2038	9/8/2038	5	125	
5	2 AC	Architectural Coating	9/9/2038	3/2/2039	5	125	

Acres of Grading (Site Preparation Phase): 232

Acres of Grading (Grading Phase): 232

Acres of Paving: 0

Residential Indoor: 4,433,130; Residential Outdoor: 1,477,710; Non-Residential Indoor: 81,750; Non-Residential Outdoor: 27,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
2 SP	Rubber Tired Dozers	3	8.00	247	0.40
2 SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
2 G	Excavators	2	8.00	158	0.38
2 G	Graders	1	8.00	187	0.41
2 G	Rubber Tired Dozers	1	8.00	247	0.40
2 G	Scrapers	2	8.00	367	0.48

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2 G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
2 BC	Cranes	1	7.00	231	0.29
2 BC	Forklifts	3	8.00	89	0.20
2 BC	Generator Sets	1	8.00	84	0.74
2 BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
2 BC	Welders	1	8.00	46	0.45
2 P	Pavers	2	8.00	130	0.42
2 P	Paving Equipment	2	8.00	132	0.36
2 P	Rollers	2	8.00	80	0.38
2 AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
2 SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 BC	9	1,497.00	475.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 AC	1	299.00	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

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 2 SP - 2030

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					21.7384	0.0000	21.7384	10.3272	0.0000	10.3272			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	21.7384	0.4367	22.1751	10.3272	0.4367	10.7639		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527
Total	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 2 SP - 2030

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					9.7823	0.0000	9.7823	4.6472	0.0000	4.6472			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	9.7823	0.4367	10.2190	4.6472	0.4367	5.0839	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527
Total	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2030

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					7.3666	0.0000	7.3666	3.4554	0.0000	3.4554			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.3666	0.4879	7.8545	3.4554	0.4879	3.9433		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919
Total	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2030

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					3.3150	0.0000	3.3150	1.5549	0.0000	1.5549			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	3.3150	0.4879	3.8029	1.5549	0.4879	2.0429	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919
Total	0.0482	0.0219	0.4087	1.2700e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		128.4825	128.4825	2.5100e-003	2.8400e-003	129.3919

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2031

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					7.3666	0.0000	7.3666	3.4554	0.0000	3.4554			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.3666	0.4879	7.8545	3.4554	0.4879	3.9433		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885
Total	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2031

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					3.3150	0.0000	3.3150	1.5549	0.0000	1.5549			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	3.3150	0.4879	3.8029	1.5549	0.4879	2.0429	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885
Total	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4794	19.7836	5.8223	0.0837	3.2217	0.1346	3.3563	0.9278	0.1288	1.0566		8,829.4134	8,829.4134	0.0302	1.2981	9,216.9923
Worker	3.3220	1.5046	29.1118	0.0930	12.2975	0.0438	12.3413	3.2619	0.0403	3.3022		9,402.5293	9,402.5293	0.1720	0.2041	9,467.6639
Total	3.8014	21.2882	34.9342	0.1767	15.5192	0.1785	15.6977	4.1897	0.1691	4.3588		18,231.9428	18,231.9428	0.2022	1.5022	18,684.6562

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4794	19.7836	5.8223	0.0837	3.2217	0.1346	3.3563	0.9278	0.1288	1.0566		8,829.4134	8,829.4134	0.0302	1.2981	9,216.9923
Worker	3.3220	1.5046	29.1118	0.0930	12.2975	0.0438	12.3413	3.2619	0.0403	3.3022		9,402.5293	9,402.5293	0.1720	0.2041	9,467.6639
Total	3.8014	21.2882	34.9342	0.1767	15.5192	0.1785	15.6977	4.1897	0.1691	4.3588		18,231.9428	18,231.9428	0.2022	1.5022	18,684.6562

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4753	19.7364	5.7990	0.0825	3.2217	0.1341	3.3557	0.9278	0.1282	1.0560		8,703.4288	8,703.4288	0.0300	1.2785	9,085.1615
Worker	3.0780	1.3956	27.8777	0.0911	12.2975	0.0410	12.3385	3.2619	0.0378	3.2996		9,212.1224	9,212.1224	0.1586	0.1973	9,274.8759
Total	3.5533	21.1320	33.6767	0.1736	15.5192	0.1751	15.6943	4.1897	0.1660	4.3557		17,915.5512	17,915.5512	0.1886	1.4758	18,360.0373

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4753	19.7364	5.7990	0.0825	3.2217	0.1341	3.3557	0.9278	0.1282	1.0560		8,703.4288	8,703.4288	0.0300	1.2785	9,085.1615
Worker	3.0780	1.3956	27.8777	0.0911	12.2975	0.0410	12.3385	3.2619	0.0378	3.2996		9,212.1224	9,212.1224	0.1586	0.1973	9,274.8759
Total	3.5533	21.1320	33.6767	0.1736	15.5192	0.1751	15.6943	4.1897	0.1660	4.3557		17,915.5512	17,915.5512	0.1886	1.4758	18,360.0373

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4724	19.6963	5.7892	0.0814	3.2217	0.1335	3.3552	0.9278	0.1277	1.0555		8,592.1087	8,592.1087	0.0299	1.2613	8,968.7076
Worker	2.8603	1.3062	26.8283	0.0895	12.2975	0.0385	12.3360	3.2619	0.0354	3.2973		9,043.1715	9,043.1715	0.1470	0.1917	9,103.9591
Total	3.3327	21.0024	32.6175	0.1709	15.5192	0.1720	15.6911	4.1897	0.1631	4.3528		17,635.2802	17,635.2802	0.1768	1.4529	18,072.6667

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4724	19.6963	5.7892	0.0814	3.2217	0.1335	3.3552	0.9278	0.1277	1.0555		8,592.1087	8,592.1087	0.0299	1.2613	8,968.7076
Worker	2.8603	1.3062	26.8283	0.0895	12.2975	0.0385	12.3360	3.2619	0.0354	3.2973		9,043.1715	9,043.1715	0.1470	0.1917	9,103.9591
Total	3.3327	21.0024	32.6175	0.1709	15.5192	0.1720	15.6911	4.1897	0.1631	4.3528		17,635.2802	17,635.2802	0.1768	1.4529	18,072.6667

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2034

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4701	19.6469	5.7853	0.0805	3.2217	0.1328	3.3545	0.9278	0.1271	1.0549		8,491.4422	8,491.4422	0.0298	1.2457	8,863.3987
Worker	2.6674	1.2340	25.9195	0.0880	12.2975	0.0361	12.3336	3.2619	0.0332	3.2951		8,893.8208	8,893.8208	0.1368	0.1871	8,952.9980
Total	3.1375	20.8809	31.7048	0.1685	15.5192	0.1689	15.6881	4.1897	0.1603	4.3500		17,385.2629	17,385.2629	0.1665	1.4328	17,816.3967

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2034

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4701	19.6469	5.7853	0.0805	3.2217	0.1328	3.3545	0.9278	0.1271	1.0549		8,491.4422	8,491.4422	0.0298	1.2457	8,863.3987
Worker	2.6674	1.2340	25.9195	0.0880	12.2975	0.0361	12.3336	3.2619	0.0332	3.2951		8,893.8208	8,893.8208	0.1368	0.1871	8,952.9980
Total	3.1375	20.8809	31.7048	0.1685	15.5192	0.1689	15.6881	4.1897	0.1603	4.3500		17,385.2629	17,385.2629	0.1665	1.4328	17,816.3967

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2035

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2035

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2036

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2036

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2037

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2037

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2038

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2038

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4681	19.5878	5.7845	0.0796	3.2217	0.1321	3.3538	0.9278	0.1264	1.0542		8,401.8270	8,401.8270	0.0297	1.2318	8,769.6583
Worker	2.4968	1.1775	25.1517	0.0867	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		8,762.6095	8,762.6095	0.1279	0.1835	8,820.4937
Total	2.9649	20.7654	30.9362	0.1663	15.5192	0.1661	15.6853	4.1897	0.1576	4.3473		17,164.4364	17,164.4364	0.1577	1.4154	17,590.1520

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 2 P - 2038

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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727

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	0.0250	0.0118	0.2520	8.7000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		87.8017	87.8017	1.2800e-003	1.8400e-003	88.3817
Total	0.0250	0.0118	0.2520	8.7000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		87.8017	87.8017	1.2800e-003	1.8400e-003	88.3817

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 2 P - 2038

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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726

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	0.0250	0.0118	0.2520	8.7000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		87.8017	87.8017	1.2800e-003	1.8400e-003	88.3817
Total	0.0250	0.0118	0.2520	8.7000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		87.8017	87.8017	1.2800e-003	1.8400e-003	88.3817

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2038

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

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	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419
Total	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2038

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

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	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419
Total	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2039

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

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	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419
Total	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2039

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

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	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419
Total	0.4987	0.2352	5.0236	0.0173	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,750.1805	1,750.1805	0.0256	0.0367	1,761.7419

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Condo/Townhouse	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Regional Shopping Center	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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					
Apartments High Rise	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	
City Park	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	
Condo/Townhouse	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	
Regional Shopping Center	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	
Single Family Housing	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	
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	

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Regional Shopping Center	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
Single Family Housing	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

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
Unmitigated	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	48.1175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2358	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021		195.5167	195.5167	0.1862		200.1706
Total	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	48.1175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2358	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021		195.5167	195.5167	0.1862		200.1706
Total	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

7.0 Water Detail

7.1 Mitigation Measures Water

VST_phase2 unmitigated - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_phase2 unmitigated
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	45.60	Acre	45.60	1,986,336.00	0
Apartments High Rise	336.00	Dwelling Unit	11.97	336,000.00	961
Condo/Townhouse	140.00	Dwelling Unit	8.60	168,000.00	400
Single Family Housing	105.00	Dwelling Unit	41.86	431,250.00	300
Single Family Housing	171.00	Dwelling Unit	40.24	470,250.00	489
Single Family Housing	326.00	Dwelling Unit	54.57	489,000.00	932
Single Family Housing	13.00	Dwelling Unit	2.07	24,700.00	37
Single Family Housing	225.00	Dwelling Unit	25.78	270,000.00	644
Regional Shopping Center	54.50	1000sqft	1.25	54,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEMod 2025 forecast

Land Use - Acreage and sq footage taken from project description and modeling data (phase 2)

Construction Phase - Dates from modeling data document and project description

Off-road Equipment - defaults

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - defaults

Grading - Acreage is the total acreage from that phase

Architectural Coating - Sq ft per phase

SJVAPCD VOC limit = 50 g/L

Vehicle Trips - in operational model

Woodstoves - defaults

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - 100% SF residential electricity from solar, MF 25% more efficient than title 24

Water And Wastewater - in operational model

Solid Waste - in operational model

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines, 40 mph speed limit

Mobile Land Use Mitigation -

Area Mitigation - SJVAPCD VOC limit

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	27250	0
tblAreaCoating	Area_Nonresidential_Interior	81750	0
tblAreaCoating	Area_Residential_Exterior	1477710	0
tblAreaCoating	Area_Residential_Interior	4433130	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingValue	150	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	50

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	180.00	67.00
tblConstructionPhase	NumDays	465.00	183.00
tblConstructionPhase	NumDays	4,650.00	1,849.00
tblConstructionPhase	NumDays	330.00	125.00
tblConstructionPhase	NumDays	330.00	125.00
tblConstructionPhase	PhaseEndDate	9/9/2030	6/3/2030
tblConstructionPhase	PhaseEndDate	6/21/2032	2/13/2031
tblConstructionPhase	PhaseEndDate	4/18/2050	3/17/2038
tblConstructionPhase	PhaseEndDate	7/24/2051	9/8/2038
tblConstructionPhase	PhaseEndDate	10/28/2052	3/2/2039
tblConstructionPhase	PhaseStartDate	1/1/2030	3/1/2030
tblConstructionPhase	PhaseStartDate	9/10/2030	6/4/2030
tblConstructionPhase	PhaseStartDate	6/22/2032	2/14/2031
tblConstructionPhase	PhaseStartDate	4/19/2050	3/18/2038
tblConstructionPhase	PhaseStartDate	7/25/2051	9/9/2038
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	184.80	0.00
tblFireplaces	NumberGas	77.00	0.00
tblFireplaces	NumberGas	462.00	0.00
tblFireplaces	NumberNoFireplace	151.20	0.00
tblFireplaces	NumberNoFireplace	63.00	0.00
tblFireplaces	NumberNoFireplace	378.00	0.00
tblGrading	AcresOfGrading	549.00	232.00
tblGrading	AcresOfGrading	100.50	232.00
tblLandUse	LandUseSquareFeet	140,000.00	168,000.00
tblLandUse	LandUseSquareFeet	189,000.00	431,250.00
tblLandUse	LandUseSquareFeet	23,400.00	24,700.00
tblLandUse	LandUseSquareFeet	307,800.00	470,250.00
tblLandUse	LandUseSquareFeet	405,000.00	270,000.00
tblLandUse	LandUseSquareFeet	586,800.00	489,000.00
tblLandUse	LotAcreage	5.42	11.97
tblLandUse	LotAcreage	8.75	8.60
tblLandUse	LotAcreage	34.09	41.86
tblLandUse	LotAcreage	4.22	2.07
tblLandUse	LotAcreage	55.52	40.24
tblLandUse	LotAcreage	73.05	25.78
tblLandUse	LotAcreage	105.84	54.57

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblSolidWaste	SolidWasteGenerationRate	154.56	0.00
tblSolidWaste	SolidWasteGenerationRate	3.92	0.00
tblSolidWaste	SolidWasteGenerationRate	64.40	0.00
tblSolidWaste	SolidWasteGenerationRate	57.23	0.00
tblSolidWaste	SolidWasteGenerationRate	864.72	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	21,891,752.61	0.00
tblWater	IndoorWaterUseRate	9,121,563.59	0.00
tblWater	IndoorWaterUseRate	4,036,952.42	0.00
tblWater	IndoorWaterUseRate	54,729,381.52	0.00
tblWater	OutdoorWaterUseRate	13,801,322.30	0.00
tblWater	OutdoorWaterUseRate	54,331,549.54	0.00
tblWater	OutdoorWaterUseRate	5,750,550.96	0.00
tblWater	OutdoorWaterUseRate	2,474,261.16	0.00
tblWater	OutdoorWaterUseRate	34,503,305.74	0.00

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberCatalytic	11.97	0.00
tblWoodstoves	NumberCatalytic	8.60	0.00
tblWoodstoves	NumberCatalytic	164.52	0.00
tblWoodstoves	NumberNoncatalytic	11.97	0.00
tblWoodstoves	NumberNoncatalytic	8.60	0.00
tblWoodstoves	NumberNoncatalytic	164.52	0.00

2.0 Emissions Summary

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	3.3241	13.8721	23.3797	0.0711	21.8863	0.4886	22.3235	10.3664	0.4885	10.8036	0.0000	7,328.096 1	7,328.096 1	0.2943	3.1700e- 003	7,336.400 4
2031	4.7506	30.8614	47.5698	0.1980	15.5192	0.4885	15.8461	4.1897	0.4885	4.5073	0.0000	20,160.36 19	20,160.36 19	0.3396	1.5298	20,624.74 22
2032	4.5316	30.6815	46.5078	0.1952	15.5192	0.3236	15.8427	4.1897	0.3145	4.5041	0.0000	19,863.89 31	19,863.89 31	0.3248	1.5024	20,319.73 90
2033	4.3376	30.5330	45.6112	0.1926	15.5192	0.3204	15.8396	4.1897	0.3116	4.5012	0.0000	19,601.22 61	19,601.22 61	0.3120	1.4788	20,049.71 99
2034	4.1690	30.3954	44.8369	0.1903	15.5192	0.3174	15.8366	4.1897	0.3087	4.4984	0.0000	19,366.73 83	19,366.73 83	0.3007	1.4581	19,808.77 41
2035	3.9290	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.52 37	19,159.52 37	0.2826	1.4402	19,595.76 88
2036	3.9290	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.52 37	19,159.52 37	0.2826	1.4402	19,595.76 88
2037	3.9290	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.52 37	19,159.52 37	0.2826	1.4402	19,595.76 88
2038	112.1807	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.52 37	19,159.52 37	0.2826	1.4402	19,595.76 88
2039	112.1807	1.0350	6.1954	0.0185	2.4562	0.0167	2.4729	0.6515	0.0161	0.6676	0.0000	1,847.874 4	1,847.874 4	0.0396	0.0409	1,861.049 8
Maximum	112.1807	30.8614	47.5698	0.1980	21.8863	0.4886	22.3235	10.3664	0.4885	10.8036	0.0000	20,160.36 19	20,160.36 19	0.3396	1.5298	20,624.74 22

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
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
Total	51.3533	1.2483	108.2002	5.7300e-003	0.0000	0.6021	0.6021	0.0000	0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

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	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
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
Total	51.3533	1.2483	108.2002	5.7300e-003	0.0000	0.6021	0.6021	0.0000	0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	2 SP	Site Preparation	3/1/2030	6/3/2030	5	67	
2	2 G	Grading	6/4/2030	2/13/2031	5	183	
3	2 BC	Building Construction	2/14/2031	3/17/2038	5	1849	
4	2 P	Paving	3/18/2038	9/8/2038	5	125	
5	2 AC	Architectural Coating	9/9/2038	3/2/2039	5	125	

Acres of Grading (Site Preparation Phase): 232

Acres of Grading (Grading Phase): 232

Acres of Paving: 0

Residential Indoor: 4,433,130; Residential Outdoor: 1,477,710; Non-Residential Indoor: 81,750; Non-Residential Outdoor: 27,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
2 SP	Rubber Tired Dozers	3	8.00	247	0.40
2 SP	Tractors/Loaders/Backhoes	4	8.00	97	0.37
2 G	Excavators	2	8.00	158	0.38
2 G	Graders	1	8.00	187	0.41
2 G	Rubber Tired Dozers	1	8.00	247	0.40
2 G	Scrapers	2	8.00	367	0.48

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2 G	Tractors/Loaders/Backhoes	2	8.00	97	0.37
2 BC	Cranes	1	7.00	231	0.29
2 BC	Forklifts	3	8.00	89	0.20
2 BC	Generator Sets	1	8.00	84	0.74
2 BC	Tractors/Loaders/Backhoes	3	7.00	97	0.37
2 BC	Welders	1	8.00	46	0.45
2 P	Pavers	2	8.00	130	0.42
2 P	Paving Equipment	2	8.00	132	0.36
2 P	Rollers	2	8.00	80	0.38
2 AC	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
2 SP	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 G	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 BC	9	1,497.00	475.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 P	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 AC	1	299.00	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

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 2 SP - 2030

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					21.7384	0.0000	21.7384	10.3272	0.0000	10.3272			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	21.7384	0.4367	22.1751	10.3272	0.4367	10.7639		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037
Total	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 2 SP - 2030

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					9.7823	0.0000	9.7823	4.6472	0.0000	4.6472			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	9.7823	0.4367	10.2190	4.6472	0.4367	5.0839	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037
Total	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2030

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					7.3666	0.0000	7.3666	3.4554	0.0000	3.4554			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.3666	0.4879	7.8545	3.4554	0.4879	3.9433		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041
Total	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2030

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					3.3150	0.0000	3.3150	1.5549	0.0000	1.5549			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	3.3150	0.4879	3.8029	1.5549	0.4879	2.0429	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041
Total	0.0434	0.0259	0.3558	1.1400e-003	0.1643	6.3000e-004	0.1649	0.0436	5.8000e-004	0.0442		114.9876	114.9876	2.8300e-003	3.1700e-003	116.0041

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2031

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					7.3666	0.0000	7.3666	3.4554	0.0000	3.4554			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	7.3666	0.4879	7.8545	3.4554	0.4879	3.9433		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011
Total	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 2 G - 2031

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					3.3150	0.0000	3.3150	1.5549	0.0000	1.5549			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	3.3150	0.4879	3.8029	1.5549	0.4879	2.0429	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011
Total	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4460	21.1503	6.0244	0.0838	3.2217	0.1350	3.3567	0.9278	0.1291	1.0569		8,847.5401	8,847.5401	0.0288	1.3019	9,236.2189
Worker	2.9955	1.7765	25.3884	0.0833	12.2975	0.0438	12.3413	3.2619	0.0403	3.3022		8,415.2750	8,415.2750	0.1946	0.2280	8,488.0704
Total	3.4414	22.9268	31.4128	0.1671	15.5192	0.1788	15.6980	4.1897	0.1695	4.3591		17,262.8152	17,262.8152	0.2234	1.5298	17,724.2893

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2031

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4460	21.1503	6.0244	0.0838	3.2217	0.1350	3.3567	0.9278	0.1291	1.0569		8,847.5401	8,847.5401	0.0288	1.3019	9,236.2189
Worker	2.9955	1.7765	25.3884	0.0833	12.2975	0.0438	12.3413	3.2619	0.0403	3.3022		8,415.2750	8,415.2750	0.1946	0.2280	8,488.0704
Total	3.4414	22.9268	31.4128	0.1671	15.5192	0.1788	15.6980	4.1897	0.1695	4.3591		17,262.8152	17,262.8152	0.2234	1.5298	17,724.2893

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4418	21.1000	6.0014	0.0826	3.2217	0.1344	3.3561	0.9278	0.1286	1.0564		8,721.3464	8,721.3464	0.0286	1.2822	9,104.1618
Worker	2.7807	1.6469	24.3494	0.0816	12.2975	0.0410	12.3385	3.2619	0.0378	3.2996		8,245.0000	8,245.0000	0.1800	0.2202	8,315.1243
Total	3.2224	22.7469	30.3508	0.1642	15.5192	0.1754	15.6946	4.1897	0.1663	4.3560		16,966.3464	16,966.3464	0.2086	1.5024	17,419.2861

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4418	21.1000	6.0014	0.0826	3.2217	0.1344	3.3561	0.9278	0.1286	1.0564		8,721.3464	8,721.3464	0.0286	1.2822	9,104.1618
Worker	2.7807	1.6469	24.3494	0.0816	12.2975	0.0410	12.3385	3.2619	0.0378	3.2996		8,245.0000	8,245.0000	0.1800	0.2202	8,315.1243
Total	3.2224	22.7469	30.3508	0.1642	15.5192	0.1754	15.6946	4.1897	0.1663	4.3560		16,966.3464	16,966.3464	0.2086	1.5024	17,419.2861

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4387	21.0577	5.9924	0.0816	3.2217	0.1338	3.3555	0.9278	0.1280	1.0558		8,609.8753	8,609.8753	0.0284	1.2650	8,987.5440
Worker	2.5898	1.5407	23.4618	0.0801	12.2975	0.0385	12.3360	3.2619	0.0354	3.2973		8,093.8041	8,093.8041	0.1673	0.2139	8,161.7230
Total	3.0285	22.5984	29.4542	0.1617	15.5192	0.1723	15.6915	4.1897	0.1634	4.3531		16,703.6793	16,703.6793	0.1958	1.4788	17,149.2670

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4387	21.0577	5.9924	0.0816	3.2217	0.1338	3.3555	0.9278	0.1280	1.0558		8,609.8753	8,609.8753	0.0284	1.2650	8,987.5440
Worker	2.5898	1.5407	23.4618	0.0801	12.2975	0.0385	12.3360	3.2619	0.0354	3.2973		8,093.8041	8,093.8041	0.1673	0.2139	8,161.7230
Total	3.0285	22.5984	29.4542	0.1617	15.5192	0.1723	15.6915	4.1897	0.1634	4.3531		16,703.6793	16,703.6793	0.1958	1.4788	17,149.2670

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2034

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4362	21.0058	5.9893	0.0806	3.2217	0.1332	3.3549	0.9278	0.1274	1.0552		8,509.0879	8,509.0879	0.0284	1.2494	8,882.1043
Worker	2.4237	1.4551	22.6906	0.0788	12.2975	0.0361	12.3336	3.2619	0.0332	3.2951		7,960.1037	7,960.1037	0.1561	0.2088	8,026.2169
Total	2.8599	22.4608	28.6799	0.1594	15.5192	0.1693	15.6884	4.1897	0.1606	4.3503		16,469.1915	16,469.1915	0.1844	1.4581	16,908.3212

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2034

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	0.4362	21.0058	5.9893	0.0806	3.2217	0.1332	3.3549	0.9278	0.1274	1.0552		8,509.0879	8,509.0879	0.0284	1.2494	8,882.1043
Worker	2.4237	1.4551	22.6906	0.0788	12.2975	0.0361	12.3336	3.2619	0.0332	3.2951		7,960.1037	7,960.1037	0.1561	0.2088	8,026.2169
Total	2.8599	22.4608	28.6799	0.1594	15.5192	0.1693	15.6884	4.1897	0.1606	4.3503		16,469.1915	16,469.1915	0.1844	1.4581	16,908.3212

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2035

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2035

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2036

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2036

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2037

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2037

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2038

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 2 BC - 2038

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	0.4340	20.9436	5.9893	0.0798	3.2217	0.1325	3.3542	0.9278	0.1267	1.0545		8,419.3676	8,419.3676	0.0283	1.2355	8,788.2513
Worker	2.2782	1.3881	22.0352	0.0776	12.2975	0.0339	12.3314	3.2619	0.0312	3.2931		7,842.6093	7,842.6093	0.1463	0.2047	7,907.2728
Total	2.7122	22.3317	28.0245	0.1574	15.5192	0.1664	15.6856	4.1897	0.1579	4.3476		16,261.9769	16,261.9769	0.1746	1.4402	16,695.5241

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 2 P - 2038

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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727

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	0.0228	0.0139	0.2208	7.8000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		78.5833	78.5833	1.4700e-003	2.0500e-003	79.2312
Total	0.0228	0.0139	0.2208	7.8000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		78.5833	78.5833	1.4700e-003	2.0500e-003	79.2312

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 2 P - 2038

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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726

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	0.0228	0.0139	0.2208	7.8000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		78.5833	78.5833	1.4700e-003	2.0500e-003	79.2312
Total	0.0228	0.0139	0.2208	7.8000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		78.5833	78.5833	1.4700e-003	2.0500e-003	79.2312

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2038

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

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	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417
Total	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2038

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

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	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417
Total	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2039

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

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	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417
Total	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 2 AC - 2039

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	111.6078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	111.7257	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

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	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417
Total	0.4550	0.2773	4.4012	0.0155	2.4562	6.7800e-003	2.4630	0.6515	6.2400e-003	0.6577		1,566.4263	1,566.4263	0.0292	0.0409	1,579.3417

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Condo/Townhouse	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Regional Shopping Center	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Regional Shopping Center	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
Single Family Housing	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

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Regional Shopping Center	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
Single Family Housing	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

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706
Unmitigated	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	48.1175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2358	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021		195.5167	195.5167	0.1862		200.1706
Total	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	48.1175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2358	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021		195.5167	195.5167	0.1862		200.1706
Total	51.3533	1.2483	108.2002	5.7300e-003		0.6021	0.6021		0.6021	0.6021	0.0000	195.5167	195.5167	0.1862	0.0000	200.1706

7.0 Water Detail

7.1 Mitigation Measures Water

VST_phase2 unmitigated - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**UCP Construction
Merced County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	240.00	1000sqft	5.51	240,000.00	0
University/College (4yr)	10,000.00	Student	42.19	1,837,974.68	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments High Rise	1,362.00	Dwelling Unit	21.97	1,362,000.00	3895
Condo/Townhouse	446.00	Dwelling Unit	27.88	446,000.00	1276
Single Family Housing	3,700.00	Dwelling Unit	1,201.30	6,660,000.00	10582
Convenience Market (24 hour)	203.00	1000sqft	4.66	203,000.00	0
Regional Shopping Center	420.00	1000sqft	9.64	420,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2050
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - 20 year buildout
- Grading - acres of project
- Vehicle Trips - VMT in other model

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Woodstoves - in operational model

Architectural Coating - SJV limit = 50 g/L

Area Coating - in operational model

Energy Use - in operational model

Water And Wastewater - in operational model

Solid Waste - in operational model

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	1350485	0
tblAreaCoating	Area_Nonresidential_Interior	4051455	0
tblAreaCoating	Area_Residential_Exterior	5715900	0
tblAreaCoating	Area_Residential_Interior	17147700	0
tblConstructionPhase	NumDays	10,000.00	250.00
tblConstructionPhase	NumDays	6,000.00	150.00
tblConstructionPhase	NumDays	15,500.00	338.00
tblConstructionPhase	NumDays	155,000.00	3,900.00
tblConstructionPhase	NumDays	11,000.00	275.00
tblConstructionPhase	NumDays	11,000.00	275.00
tblConstructionPhase	PhaseEndDate	4/30/2068	12/16/2030
tblConstructionPhase	PhaseEndDate	4/30/2091	7/14/2031
tblConstructionPhase	PhaseEndDate	9/28/2150	10/27/2032
tblConstructionPhase	PhaseEndDate	11/13/2744	10/9/2047
tblConstructionPhase	PhaseEndDate	1/12/2787	10/28/2048
tblConstructionPhase	PhaseEndDate	3/12/2829	11/17/2049

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	PhaseStartDate	5/1/2068	12/17/2030
tblConstructionPhase	PhaseStartDate	5/1/2091	7/14/2031
tblConstructionPhase	PhaseStartDate	9/29/2150	10/28/2032
tblConstructionPhase	PhaseStartDate	11/14/2744	10/10/2047
tblConstructionPhase	PhaseStartDate	1/13/2787	10/29/2048
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	3.59	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	5.82	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	4.49	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24E	2.63	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	0.82	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	1.34	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.91	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24E	3.19	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24E	2.65	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	21.74	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblEnergyUse	T24NG	20.55	0.00
tblFireplaces	NumberGas	749.10	0.00
tblFireplaces	NumberGas	245.30	0.00
tblFireplaces	NumberGas	2,035.00	0.00
tblFireplaces	NumberNoFireplace	612.90	0.00
tblFireplaces	NumberNoFireplace	200.70	0.00
tblFireplaces	NumberNoFireplace	1,665.00	0.00
tblGrading	AcresOfGrading	1,014.00	1,023.00
tblGrading	AcresOfGrading	225.00	1,023.00
tblSolidWaste	SolidWasteGenerationRate	626.52	0.00
tblSolidWaste	SolidWasteGenerationRate	11.61	0.00
tblSolidWaste	SolidWasteGenerationRate	205.16	0.00
tblSolidWaste	SolidWasteGenerationRate	610.06	0.00
tblSolidWaste	SolidWasteGenerationRate	223.20	0.00
tblSolidWaste	SolidWasteGenerationRate	441.00	0.00
tblSolidWaste	SolidWasteGenerationRate	3,809.52	0.00
tblSolidWaste	SolidWasteGenerationRate	1,825.00	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	1,084.17	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	ST_TR	1.30	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	901.17	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	762.28	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblVehicleTrips	WD_TR	1.56	0.00
tblWater	IndoorWaterUseRate	88,739,782.90	0.00
tblWater	IndoorWaterUseRate	29,058,695.43	0.00
tblWater	IndoorWaterUseRate	15,036,721.86	0.00
tblWater	IndoorWaterUseRate	42,656,099.52	0.00
tblWater	IndoorWaterUseRate	31,110,459.02	0.00
tblWater	IndoorWaterUseRate	241,069,894.80	0.00
tblWater	IndoorWaterUseRate	21,411,000.00	0.00
tblWater	OutdoorWaterUseRate	55,944,645.74	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	OutdoorWaterUseRate	160,849,982.20	0.00
tblWater	OutdoorWaterUseRate	18,319,612.33	0.00
tblWater	OutdoorWaterUseRate	9,216,055.33	0.00
tblWater	OutdoorWaterUseRate	26,144,061.00	0.00
tblWater	OutdoorWaterUseRate	19,067,700.69	0.00
tblWater	OutdoorWaterUseRate	151,978,846.72	0.00
tblWater	OutdoorWaterUseRate	33,489,000.00	0.00
tblWoodstoves	NumberCatalytic	21.97	0.00
tblWoodstoves	NumberCatalytic	27.88	0.00
tblWoodstoves	NumberCatalytic	1,201.30	0.00
tblWoodstoves	NumberNoncatalytic	21.97	0.00
tblWoodstoves	NumberNoncatalytic	27.88	0.00
tblWoodstoves	NumberNoncatalytic	1,201.30	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.2769	1.2996	2.4894	6.1500e-003	0.6576	0.0464	0.7039	0.1174	0.0463	0.1637	0.0000	529.1381	529.1381	0.0223	2.7000e-004	529.7742
2031	0.3761	1.8041	2.5904	7.6800e-003	2.7306	0.0604	2.7911	1.0162	0.0604	1.0766	0.0000	693.5064	693.5064	0.0303	3.2000e-004	694.3585
2032	0.6909	3.8543	5.8247	0.0246	2.6703	0.0732	2.7435	0.8152	0.0723	0.8875	0.0000	2,300.8283	2,300.8283	0.0484	0.1330	2,341.6681
2033	1.7491	13.0012	17.8477	0.0926	8.0952	0.1128	8.2080	2.1919	0.1080	2.2998	0.0000	8,644.6701	8,644.6701	0.1034	0.7228	8,862.6410

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Year	tons/yr										MT/yr					
2034	1.6609	12.9314	17.4267	0.0914	8.0953	0.1111	8.2064	2.1919	0.1065	2.2983	0.0000	8,528.004 2	8,528.004 2	0.0983	0.7127	8,742.854 2
2035	1.5774	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8,457.318 1	8,457.318 1	0.0932	0.7067	8,670.256 9
2036	1.5834	12.8629	17.1976	0.0910	8.1575	0.1029	8.2604	2.2087	0.0983	2.3070	0.0000	8,489.721 6	8,489.721 6	0.0935	0.7095	8,703.476 3
2037	1.5774	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8,457.318 1	8,457.318 1	0.0932	0.7067	8,670.256 9
2038	1.5774	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8,457.318 1	8,457.318 1	0.0932	0.7067	8,670.256 9
2039	1.5713	12.7647	17.0663	0.0903	8.0953	0.1021	8.1974	2.1919	0.0975	2.2894	0.0000	8,424.914 6	8,424.914 6	0.0928	0.7040	8,637.037 5
2040	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8,107.643 4	8,107.643 4	0.0776	0.6781	8,311.657 6
2041	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8,107.643 4	8,107.643 4	0.0776	0.6781	8,311.657 6
2042	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8,107.643 4	8,107.643 4	0.0776	0.6781	8,311.657 6
2043	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8,107.643 4	8,107.643 4	0.0776	0.6781	8,311.657 6
2044	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8,107.643 4	8,107.643 4	0.0776	0.6781	8,311.657 6
2045	1.1680	12.5011	15.4663	0.0848	8.0953	0.0924	8.1877	2.1919	0.0884	2.2803	0.0000	7,912.410 4	7,912.410 4	0.0708	0.6624	8,111.573 2
2046	1.1725	12.5492	15.5258	0.0851	8.1264	0.0928	8.2192	2.2003	0.0887	2.2890	0.0000	7,942.842 7	7,942.842 7	0.0711	0.6649	8,142.771 5
2047	0.9377	9.8206	12.4884	0.0667	6.2929	0.0753	6.3682	1.7039	0.0721	1.7760	0.0000	6,220.441 6	6,220.441 6	0.0574	0.5147	6,375.250 4
2048	5.6191	0.4323	2.1285	4.5800e-003	0.2385	0.0132	0.2517	0.0634	0.0132	0.0766	0.0000	402.2693	402.2693	0.0106	3.2400e-003	403.4998
2049	27.4222	0.1806	1.9896	7.3300e-003	1.1232	2.9800e-003	1.1262	0.2986	2.8100e-003	0.3014	0.0000	670.1824	670.1824	8.8000e-003	0.0153	674.9482
Maximum	27.4222	13.0012	17.8477	0.0926	8.1575	0.1128	8.2604	2.2087	0.1080	2.3070	0.0000	8,644.670 1	8,644.670 1	0.1034	0.7228	8,862.641 0

2.1 Overall Construction

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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					
2030	0.2769	1.2996	2.4894	6.1500e-003	0.6576	0.0464	0.7039	0.1174	0.0463	0.1637	0.0000	529.1375	529.1375	0.0223	2.7000e-004	529.7736
2031	0.3761	1.8041	2.5904	7.6800e-003	2.7306	0.0604	2.7911	1.0162	0.0604	1.0766	0.0000	693.5055	693.5055	0.0303	3.2000e-004	694.3577
2032	0.6909	3.8543	5.8246	0.0246	2.6703	0.0732	2.7435	0.8152	0.0723	0.8875	0.0000	2,300.8274	2,300.8274	0.0484	0.1330	2,341.6672
2033	1.7491	13.0012	17.8477	0.0926	8.0952	0.1128	8.2080	2.1919	0.1080	2.2998	0.0000	8,644.6697	8,644.6697	0.1034	0.7228	8,862.6406
2034	1.6609	12.9314	17.4267	0.0914	8.0953	0.1111	8.2064	2.1919	0.1065	2.2983	0.0000	8,528.0038	8,528.0038	0.0983	0.7127	8,742.8538
2035	1.5774	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8,457.3177	8,457.3177	0.0932	0.7067	8,670.2565
2036	1.5834	12.8629	17.1976	0.0910	8.1575	0.1029	8.2604	2.2087	0.0983	2.3070	0.0000	8,489.7212	8,489.7212	0.0935	0.7095	8,703.4759
2037	1.5774	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8,457.3177	8,457.3177	0.0932	0.7067	8,670.2565
2038	1.5774	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8,457.3177	8,457.3177	0.0932	0.7067	8,670.2565
2039	1.5713	12.7647	17.0663	0.0903	8.0953	0.1021	8.1974	2.1919	0.0975	2.2894	0.0000	8,424.9142	8,424.9142	0.0928	0.7040	8,637.0371
2040	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8,107.6430	8,107.6430	0.0776	0.6781	8,311.6572
2041	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8,107.6430	8,107.6430	0.0776	0.6781	8,311.6572
2042	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8,107.6430	8,107.6430	0.0776	0.6781	8,311.6572
2043	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8,107.6430	8,107.6430	0.0776	0.6781	8,311.6572
2044	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8,107.6430	8,107.6430	0.0776	0.6781	8,311.6572
2045	1.1680	12.5011	15.4663	0.0848	8.0953	0.0924	8.1877	2.1919	0.0884	2.2803	0.0000	7,912.4100	7,912.4100	0.0708	0.6624	8,111.5728
2046	1.1725	12.5492	15.5258	0.0851	8.1264	0.0928	8.2192	2.2003	0.0887	2.2890	0.0000	7,942.8423	7,942.8423	0.0711	0.6649	8,142.7711

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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
Year	tons/yr										MT/yr					
2047	0.9377	9.8206	12.4884	0.0667	6.2929	0.0753	6.3682	1.7039	0.0721	1.7760	0.0000	6,220.441 2	6,220.441 2	0.0574	0.5147	6,375.250 0
2048	5.6191	0.4323	2.1285	4.5800e-003	0.2385	0.0132	0.2517	0.0634	0.0132	0.0766	0.0000	402.2689	402.2689	0.0106	3.2400e-003	403.4995
2049	27.4222	0.1806	1.9896	7.3300e-003	1.1232	2.9800e-003	1.1262	0.2986	2.8100e-003	0.3014	0.0000	670.1824	670.1824	8.8000e-003	0.0153	674.9482
Maximum	27.4222	13.0012	17.8477	0.0926	8.1575	0.1128	8.2604	2.2087	0.1080	2.3070	0.0000	8,644.669 7	8,644.669 7	0.1034	0.7228	8,862.640 6

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2030	3-31-2030	0.3826	0.3826
2	4-1-2030	6-30-2030	0.3869	0.3869
3	7-1-2030	9-30-2030	0.3911	0.3911
4	10-1-2030	12-31-2030	0.4140	0.4140
5	1-1-2031	3-31-2031	0.5196	0.5196
6	4-1-2031	6-30-2031	0.5254	0.5254
7	7-1-2031	9-30-2031	0.5659	0.5659
8	10-1-2031	12-31-2031	0.5648	0.5648
9	1-1-2032	3-31-2032	0.5585	0.5585
10	4-1-2032	6-30-2032	0.5586	0.5586
11	7-1-2032	9-30-2032	0.5647	0.5647
12	10-1-2032	12-31-2032	2.9030	2.9030
13	1-1-2033	3-31-2033	3.7447	3.7447
14	4-1-2033	6-30-2033	3.6099	3.6099

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15	7-1-2033	9-30-2033	3.6496	3.6496
16	10-1-2033	12-31-2033	3.8280	3.8280
17	1-1-2034	3-31-2034	3.7041	3.7041
18	4-1-2034	6-30-2034	3.5675	3.5675
19	7-1-2034	9-30-2034	3.6067	3.6067
20	10-1-2034	12-31-2034	3.7864	3.7864
21	1-1-2035	3-31-2035	3.6396	3.6396
22	4-1-2035	6-30-2035	3.5007	3.5007
23	7-1-2035	9-30-2035	3.5391	3.5391
24	10-1-2035	12-31-2035	3.7204	3.7204
25	1-1-2036	3-31-2036	3.6800	3.6800
26	4-1-2036	6-30-2036	3.5007	3.5007
27	7-1-2036	9-30-2036	3.5391	3.5391
28	10-1-2036	12-31-2036	3.7204	3.7204
29	1-1-2037	3-31-2037	3.6396	3.6396
30	4-1-2037	6-30-2037	3.5007	3.5007
31	7-1-2037	9-30-2037	3.5391	3.5391
32	10-1-2037	12-31-2037	3.7204	3.7204
33	1-1-2038	3-31-2038	3.6396	3.6396
34	4-1-2038	6-30-2038	3.5007	3.5007
35	7-1-2038	9-30-2038	3.5391	3.5391
36	10-1-2038	12-31-2038	3.7204	3.7204
37	1-1-2039	3-31-2039	3.6396	3.6396
38	4-1-2039	6-30-2039	3.5007	3.5007
39	7-1-2039	9-30-2039	3.5391	3.5391
40	10-1-2039	12-31-2039	3.7204	3.7204
41	1-1-2040	3-31-2040	3.5503	3.5503
42	4-1-2040	6-30-2040	3.3627	3.3627
43	7-1-2040	9-30-2040	3.3997	3.3997

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44	10-1-2040	12-31-2040	3.5893	3.5893
45	1-1-2041	3-31-2041	3.5113	3.5113
46	4-1-2041	6-30-2041	3.3627	3.3627
47	7-1-2041	9-30-2041	3.3997	3.3997
48	10-1-2041	12-31-2041	3.5893	3.5893
49	1-1-2042	3-31-2042	3.5113	3.5113
50	4-1-2042	6-30-2042	3.3627	3.3627
51	7-1-2042	9-30-2042	3.3997	3.3997
52	10-1-2042	12-31-2042	3.5893	3.5893
53	1-1-2043	3-31-2043	3.5113	3.5113
54	4-1-2043	6-30-2043	3.3627	3.3627
55	7-1-2043	9-30-2043	3.3997	3.3997
56	10-1-2043	12-31-2043	3.5893	3.5893
57	1-1-2044	3-31-2044	3.5503	3.5503
58	4-1-2044	6-30-2044	3.3627	3.3627
59	7-1-2044	9-30-2044	3.3997	3.3997
60	10-1-2044	12-31-2044	3.5893	3.5893
61	1-1-2045	3-31-2045	3.4708	3.4708
62	4-1-2045	6-30-2045	3.3177	3.3177
63	7-1-2045	9-30-2045	3.3541	3.3541
64	10-1-2045	12-31-2045	3.5480	3.5480
65	1-1-2046	3-31-2046	3.4708	3.4708
66	4-1-2046	6-30-2046	3.3177	3.3177
67	7-1-2046	9-30-2046	3.3541	3.3541
68	10-1-2046	12-31-2046	3.5480	3.5480
69	1-1-2047	3-31-2047	3.4708	3.4708
70	4-1-2047	6-30-2047	3.3177	3.3177
71	7-1-2047	9-30-2047	3.3541	3.3541
72	10-1-2047	12-31-2047	0.4862	0.4862

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73	1-1-2048	3-31-2048	0.1526	0.1526
74	4-1-2048	6-30-2048	0.1525	0.1525
75	7-1-2048	9-30-2048	0.1542	0.1542
76	10-1-2048	12-31-2048	5.5608	5.5608
77	1-1-2049	3-31-2049	7.7538	7.7538
78	4-1-2049	6-30-2049	7.8375	7.8375
79	7-1-2049	9-30-2049	7.9236	7.9236
		Highest	7.9236	7.9236

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	44.9028	0.4709	40.8183	2.1700e-003		0.2272	0.2272		0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	44.9028	0.4709	40.8183	2.1700e-003	0.0000	0.2272	0.2272	0.0000	0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043

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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	44.9028	0.4709	40.8183	2.1700e-003		0.2272	0.2272		0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	44.9028	0.4709	40.8183	2.1700e-003	0.0000	0.2272	0.2272	0.0000	0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043

	ROG	NOx	CO	SO2	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	1/1/2030	12/16/2030	5	250	
2	Site Preparation	Site Preparation	12/17/2030	7/14/2031	5	150	
3	Grading	Grading	7/14/2031	10/27/2032	5	338	

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4	Building Construction	Building Construction	10/28/2032	10/9/2047	5	3900
5	Paving	Paving	10/10/2047	10/28/2048	5	275
6	Architectural Coating	Architectural Coating	10/29/2048	11/17/2049	5	275

Acres of Grading (Site Preparation Phase): 1023

Acres of Grading (Grading Phase): 1023

Acres of Paving: 0

Residential Indoor: 17,147,700; Residential Outdoor: 5,715,900; Non-Residential Indoor: 4,051,462; Non-Residential Outdoor: 1,350,487; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

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Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	6,152.00	1,995.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1,230.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2030

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	0.2593	1.2221	2.3646	5.7800e-003		0.0439	0.0439		0.0439	0.0439	0.0000	496.5228	496.5228	0.0210	0.0000	497.0465
Total	0.2593	1.2221	2.3646	5.7800e-003		0.0439	0.0439		0.0439	0.0439	0.0000	496.5228	496.5228	0.0210	0.0000	497.0465

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3.2 Demolition - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9200e-003	2.2100e-003	0.0335	1.1000e-004	0.0150	6.0000e-005	0.0150	3.9800e-003	5.0000e-005	4.0300e-003	0.0000	10.0805	10.0805	2.2000e-004	2.5000e-004	10.1615
Total	3.9200e-003	2.2100e-003	0.0335	1.1000e-004	0.0150	6.0000e-005	0.0150	3.9800e-003	5.0000e-005	4.0300e-003	0.0000	10.0805	10.0805	2.2000e-004	2.5000e-004	10.1615

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	0.2593	1.2221	2.3646	5.7800e-003		0.0439	0.0439		0.0439	0.0439	0.0000	496.5223	496.5223	0.0210	0.0000	497.0459
Total	0.2593	1.2221	2.3646	5.7800e-003		0.0439	0.0439		0.0439	0.0439	0.0000	496.5223	496.5223	0.0210	0.0000	497.0459

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9200e-003	2.2100e-003	0.0335	1.1000e-004	0.0150	6.0000e-005	0.0150	3.9800e-003	5.0000e-005	4.0300e-003	0.0000	10.0805	10.0805	2.2000e-004	2.5000e-004	10.1615
Total	3.9200e-003	2.2100e-003	0.0335	1.1000e-004	0.0150	6.0000e-005	0.0150	3.9800e-003	5.0000e-005	4.0300e-003	0.0000	10.0805	10.0805	2.2000e-004	2.5000e-004	10.1615

3.3 Site Preparation - 2030

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					0.6418	0.0000	0.6418	0.1132	0.0000	0.1132	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0134	0.0752	0.0896	2.6000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	22.0025	22.0025	1.0900e-003	0.0000	22.0297
Total	0.0134	0.0752	0.0896	2.6000e-004	0.6418	2.4000e-003	0.6442	0.1132	2.4000e-003	0.1156	0.0000	22.0025	22.0025	1.0900e-003	0.0000	22.0297

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2030

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	2.1000e-004	1.2000e-004	1.7700e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.5323	0.5323	1.0000e-005	1.0000e-005	0.5365
Total	2.1000e-004	1.2000e-004	1.7700e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.5323	0.5323	1.0000e-005	1.0000e-005	0.5365

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					0.6418	0.0000	0.6418	0.1132	0.0000	0.1132	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0134	0.0752	0.0896	2.6000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	22.0025	22.0025	1.0900e-003	0.0000	22.0297
Total	0.0134	0.0752	0.0896	2.6000e-004	0.6418	2.4000e-003	0.6442	0.1132	2.4000e-003	0.1156	0.0000	22.0025	22.0025	1.0900e-003	0.0000	22.0297

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2030

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	2.1000e-004	1.2000e-004	1.7700e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.5323	0.5323	1.0000e-005	1.0000e-005	0.5365
Total	2.1000e-004	1.2000e-004	1.7700e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.5323	0.5323	1.0000e-005	1.0000e-005	0.5365

3.3 Site Preparation - 2031

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					1.7981	0.0000	1.7981	0.7488	0.0000	0.7488	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1696	0.9499	1.1323	3.2400e-003		0.0304	0.0304		0.0304	0.0304	0.0000	278.0321	278.0321	0.0137	0.0000	278.3750
Total	0.1696	0.9499	1.1323	3.2400e-003	1.7981	0.0304	1.8284	0.7488	0.0304	0.7791	0.0000	278.0321	278.0321	0.0137	0.0000	278.3750

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2031

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	2.4100e-003	1.3500e-003	0.0213	7.0000e-005	9.9800e-003	4.0000e-005	0.0100	2.6500e-003	3.0000e-005	2.6900e-003	0.0000	6.5760	6.5760	1.4000e-004	1.6000e-004	6.6277
Total	2.4100e-003	1.3500e-003	0.0213	7.0000e-005	9.9800e-003	4.0000e-005	0.0100	2.6500e-003	3.0000e-005	2.6900e-003	0.0000	6.5760	6.5760	1.4000e-004	1.6000e-004	6.6277

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7981	0.0000	1.7981	0.7488	0.0000	0.7488	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1696	0.9499	1.1323	3.2400e-003		0.0304	0.0304		0.0304	0.0304	0.0000	278.0317	278.0317	0.0137	0.0000	278.3747
Total	0.1696	0.9499	1.1323	3.2400e-003	1.7981	0.0304	1.8284	0.7488	0.0304	0.7791	0.0000	278.0317	278.0317	0.0137	0.0000	278.3747

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2031

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	2.4100e-003	1.3500e-003	0.0213	7.0000e-005	9.9800e-003	4.0000e-005	0.0100	2.6500e-003	3.0000e-005	2.6900e-003	0.0000	6.5760	6.5760	1.4000e-004	1.6000e-004	6.6277
Total	2.4100e-003	1.3500e-003	0.0213	7.0000e-005	9.9800e-003	4.0000e-005	0.0100	2.6500e-003	3.0000e-005	2.6900e-003	0.0000	6.5760	6.5760	1.4000e-004	1.6000e-004	6.6277

3.4 Grading - 2031

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					0.9128	0.0000	0.9128	0.2622	0.0000	0.2622	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2018	0.8515	1.4160	4.3000e-003		0.0300	0.0300		0.0300	0.0300	0.0000	402.4328	402.4328	0.0163	0.0000	402.8394
Total	0.2018	0.8515	1.4160	4.3000e-003	0.9128	0.0300	0.9428	0.2622	0.0300	0.2922	0.0000	402.4328	402.4328	0.0163	0.0000	402.8394

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2031

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	2.3700e-003	1.3300e-003	0.0209	7.0000e-005	9.8100e-003	4.0000e-005	9.8500e-003	2.6100e-003	3.0000e-005	2.6400e-003	0.0000	6.4656	6.4656	1.3000e-004	1.6000e-004	6.5164
Total	2.3700e-003	1.3300e-003	0.0209	7.0000e-005	9.8100e-003	4.0000e-005	9.8500e-003	2.6100e-003	3.0000e-005	2.6400e-003	0.0000	6.4656	6.4656	1.3000e-004	1.6000e-004	6.5164

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					0.9128	0.0000	0.9128	0.2622	0.0000	0.2622	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2018	0.8515	1.4160	4.3000e-003		0.0300	0.0300		0.0300	0.0300	0.0000	402.4323	402.4323	0.0163	0.0000	402.8389
Total	0.2018	0.8515	1.4160	4.3000e-003	0.9128	0.0300	0.9428	0.2622	0.0300	0.2922	0.0000	402.4323	402.4323	0.0163	0.0000	402.8389

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2031

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	2.3700e-003	1.3300e-003	0.0209	7.0000e-005	9.8100e-003	4.0000e-005	9.8500e-003	2.6100e-003	3.0000e-005	2.6400e-003	0.0000	6.4656	6.4656	1.3000e-004	1.6000e-004	6.5164
Total	2.3700e-003	1.3300e-003	0.0209	7.0000e-005	9.8100e-003	4.0000e-005	9.8500e-003	2.6100e-003	3.0000e-005	2.6400e-003	0.0000	6.4656	6.4656	1.3000e-004	1.6000e-004	6.5164

3.4 Grading - 2032

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					1.1898	0.0000	1.1898	0.4144	0.0000	0.4144	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3527	1.4885	2.4751	7.5200e-003		0.0525	0.0525		0.0525	0.0525	0.0000	703.4394	703.4394	0.0284	0.0000	704.1501
Total	0.3527	1.4885	2.4751	7.5200e-003	1.1898	0.0525	1.2423	0.4144	0.0525	0.4669	0.0000	703.4394	703.4394	0.0284	0.0000	704.1501

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8400e-003	2.1500e-003	0.0350	1.2000e-004	0.0172	6.0000e-005	0.0172	4.5600e-003	5.0000e-005	4.6100e-003	0.0000	11.0729	11.0729	2.2000e-004	2.7000e-004	11.1585
Total	3.8400e-003	2.1500e-003	0.0350	1.2000e-004	0.0172	6.0000e-005	0.0172	4.5600e-003	5.0000e-005	4.6100e-003	0.0000	11.0729	11.0729	2.2000e-004	2.7000e-004	11.1585

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1898	0.0000	1.1898	0.4144	0.0000	0.4144	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3527	1.4885	2.4751	7.5200e-003		0.0525	0.0525		0.0525	0.0525	0.0000	703.4385	703.4385	0.0284	0.0000	704.1493
Total	0.3527	1.4885	2.4751	7.5200e-003	1.1898	0.0525	1.2423	0.4144	0.0525	0.4669	0.0000	703.4385	703.4385	0.0284	0.0000	704.1493

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8400e-003	2.1500e-003	0.0350	1.2000e-004	0.0172	6.0000e-005	0.0172	4.5600e-003	5.0000e-005	4.6100e-003	0.0000	11.0729	11.0729	2.2000e-004	2.7000e-004	11.1585
Total	3.8400e-003	2.1500e-003	0.0350	1.2000e-004	0.0172	6.0000e-005	0.0172	4.5600e-003	5.0000e-005	4.6100e-003	0.0000	11.0729	11.0729	2.2000e-004	2.7000e-004	11.1585

3.5 Building Construction - 2032

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	0.0308	0.1865	0.3797	7.3000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	61.7723	61.7723	2.4800e-003	0.0000	61.8343
Total	0.0308	0.1865	0.3797	7.3000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	61.7723	61.7723	2.4800e-003	0.0000	61.8343

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2032

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	0.0453	2.0327	0.5811	8.1500e-003	0.3104	0.0132	0.3236	0.0897	0.0127	0.1024	0.0000	779.9700	779.9700	2.6300e-003	0.1146	814.1943
Worker	0.2583	0.1445	2.3538	8.1200e-003	1.1530	3.9600e-003	1.1570	0.3065	3.6500e-003	0.3102	0.0000	744.5736	744.5736	0.0146	0.0181	750.3309
Total	0.3036	2.1772	2.9349	0.0163	1.4634	0.0172	1.4806	0.3962	0.0163	0.4125	0.0000	1,524.5437	1,524.5437	0.0173	0.1327	1,564.5252

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	0.0308	0.1865	0.3797	7.3000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	61.7723	61.7723	2.4800e-003	0.0000	61.8342
Total	0.0308	0.1865	0.3797	7.3000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	61.7723	61.7723	2.4800e-003	0.0000	61.8342

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2032

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	0.0453	2.0327	0.5811	8.1500e-003	0.3104	0.0132	0.3236	0.0897	0.0127	0.1024	0.0000	779.9700	779.9700	2.6300e-003	0.1146	814.1943
Worker	0.2583	0.1445	2.3538	8.1200e-003	1.1530	3.9600e-003	1.1570	0.3065	3.6500e-003	0.3102	0.0000	744.5736	744.5736	0.0146	0.0181	750.3309
Total	0.3036	2.1772	2.9349	0.0163	1.4634	0.0172	1.4806	0.3962	0.0163	0.4125	0.0000	1,524.5437	1,524.5437	0.0173	0.1327	1,564.5252

3.5 Building Construction - 2033

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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2033

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	0.2491	11.2219	3.2097	0.0445	1.7170	0.0730	1.7900	0.4963	0.0698	0.5661	0.0000	4,259.557 1	4,259.557 1	0.0145	0.6256	4,446.336 7
Worker	1.3297	0.7477	12.5376	0.0441	6.3782	0.0206	6.3988	1.6956	0.0189	1.7145	0.0000	4,043.393 6	4,043.393 6	0.0752	0.0972	4,074.242 3
Total	1.5789	11.9697	15.7472	0.0886	8.0952	0.0935	8.1888	2.1919	0.0887	2.2806	0.0000	8,302.950 7	8,302.950 7	0.0897	0.7228	8,520.579 0

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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2033

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	0.2491	11.2219	3.2097	0.0445	1.7170	0.0730	1.7900	0.4963	0.0698	0.5661	0.0000	4,259.557 1	4,259.557 1	0.0145	0.6256	4,446.336 7
Worker	1.3297	0.7477	12.5376	0.0441	6.3782	0.0206	6.3988	1.6956	0.0189	1.7145	0.0000	4,043.393 6	4,043.393 6	0.0752	0.0972	4,074.242 3
Total	1.5789	11.9697	15.7472	0.0886	8.0952	0.0935	8.1888	2.1919	0.0887	2.2806	0.0000	8,302.950 7	8,302.950 7	0.0897	0.7228	8,520.579 0

3.5 Building Construction - 2034

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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2034

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	0.2479	11.1937	3.2078	0.0440	1.7170	0.0726	1.7896	0.4963	0.0695	0.5657	0.0000	4,209.6696	4,209.6696	0.0145	0.6178	4,394.1472
Worker	1.2428	0.7062	12.1185	0.0434	6.3782	0.0193	6.3975	1.6956	0.0177	1.7133	0.0000	3,976.6152	3,976.6152	0.0701	0.0949	4,006.6450
Total	1.4907	11.8999	15.3263	0.0873	8.0953	0.0919	8.1871	2.1919	0.0872	2.2791	0.0000	8,186.2848	8,186.2848	0.0845	0.7127	8,400.7922

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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2034

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	0.2479	11.1937	3.2078	0.0440	1.7170	0.0726	1.7896	0.4963	0.0695	0.5657	0.0000	4,209.6696	4,209.6696	0.0145	0.6178	4,394.1472
Worker	1.2428	0.7062	12.1185	0.0434	6.3782	0.0193	6.3975	1.6956	0.0177	1.7133	0.0000	3,976.6152	3,976.6152	0.0701	0.0949	4,006.6450
Total	1.4907	11.8999	15.3263	0.0873	8.0953	0.0919	8.1871	2.1919	0.0872	2.2791	0.0000	8,186.2848	8,186.2848	0.0845	0.7127	8,400.7922

3.5 Building Construction - 2035

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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2035

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	0.2478	11.2030	3.2199	0.0437	1.7236	0.0725	1.7961	0.4982	0.0693	0.5675	0.0000	4,181.2796	4,181.2796	0.0145	0.6133	4,364.4136
Worker	1.1708	0.6763	11.8087	0.0429	6.4027	0.0182	6.4209	1.7021	0.0168	1.7189	0.0000	3,933.0049	3,933.0049	0.0659	0.0934	3,962.4903
Total	1.4186	11.8793	15.0286	0.0866	8.1264	0.0907	8.2171	2.2003	0.0861	2.2864	0.0000	8,114.2845	8,114.2845	0.0804	0.7068	8,326.9039

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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2035

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	0.2478	11.2030	3.2199	0.0437	1.7236	0.0725	1.7961	0.4982	0.0693	0.5675	0.0000	4,181.279 6	4,181.279 6	0.0145	0.6133	4,364.413 6
Worker	1.1708	0.6763	11.8087	0.0429	6.4027	0.0182	6.4209	1.7021	0.0168	1.7189	0.0000	3,933.004 9	3,933.004 9	0.0659	0.0934	3,962.490 3
Total	1.4186	11.8793	15.0286	0.0866	8.1264	0.0907	8.2171	2.2003	0.0861	2.2864	0.0000	8,114.284 5	8,114.284 5	0.0804	0.7068	8,326.903 9

3.5 Building Construction - 2036

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	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3479	344.3479	0.0128	0.0000	344.6686
Total	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3479	344.3479	0.0128	0.0000	344.6686

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2036

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	0.2488	11.2459	3.2322	0.0438	1.7303	0.0728	1.8030	0.5001	0.0696	0.5697	0.0000	4,197.2998	4,197.2998	0.0146	0.6157	4,381.1355
Worker	1.1753	0.6789	11.8539	0.0431	6.4273	0.0183	6.4455	1.7086	0.0168	1.7255	0.0000	3,948.0739	3,948.0739	0.0661	0.0938	3,977.6722
Total	1.4240	11.9248	15.0861	0.0869	8.1575	0.0910	8.2486	2.2087	0.0864	2.2952	0.0000	8,145.3737	8,145.3737	0.0807	0.7095	8,358.8077

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	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3475	344.3475	0.0128	0.0000	344.6682
Total	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3475	344.3475	0.0128	0.0000	344.6682

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2036

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	0.2488	11.2459	3.2322	0.0438	1.7303	0.0728	1.8030	0.5001	0.0696	0.5697	0.0000	4,197.2998	4,197.2998	0.0146	0.6157	4,381.1355
Worker	1.1753	0.6789	11.8539	0.0431	6.4273	0.0183	6.4455	1.7086	0.0168	1.7255	0.0000	3,948.0739	3,948.0739	0.0661	0.0938	3,977.6722
Total	1.4240	11.9248	15.0861	0.0869	8.1575	0.0910	8.2486	2.2087	0.0864	2.2952	0.0000	8,145.3737	8,145.3737	0.0807	0.7095	8,358.8077

3.5 Building Construction - 2037

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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2037

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	0.2478	11.2030	3.2199	0.0437	1.7236	0.0725	1.7961	0.4982	0.0693	0.5675	0.0000	4,181.279 6	4,181.279 6	0.0145	0.6133	4,364.413 6
Worker	1.1708	0.6763	11.8087	0.0429	6.4027	0.0182	6.4209	1.7021	0.0168	1.7189	0.0000	3,933.004 9	3,933.004 9	0.0659	0.0934	3,962.490 3
Total	1.4186	11.8793	15.0286	0.0866	8.1264	0.0907	8.2171	2.2003	0.0861	2.2864	0.0000	8,114.284 5	8,114.284 5	0.0804	0.7068	8,326.903 9

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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2037

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	0.2478	11.2030	3.2199	0.0437	1.7236	0.0725	1.7961	0.4982	0.0693	0.5675	0.0000	4,181.2796	4,181.2796	0.0145	0.6133	4,364.4136
Worker	1.1708	0.6763	11.8087	0.0429	6.4027	0.0182	6.4209	1.7021	0.0168	1.7189	0.0000	3,933.0049	3,933.0049	0.0659	0.0934	3,962.4903
Total	1.4186	11.8793	15.0286	0.0866	8.1264	0.0907	8.2171	2.2003	0.0861	2.2864	0.0000	8,114.2845	8,114.2845	0.0804	0.7068	8,326.9039

3.5 Building Construction - 2038

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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2038

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	0.2478	11.2030	3.2199	0.0437	1.7236	0.0725	1.7961	0.4982	0.0693	0.5675	0.0000	4,181.2796	4,181.2796	0.0145	0.6133	4,364.4136
Worker	1.1708	0.6763	11.8087	0.0429	6.4027	0.0182	6.4209	1.7021	0.0168	1.7189	0.0000	3,933.0049	3,933.0049	0.0659	0.0934	3,962.4903
Total	1.4186	11.8793	15.0286	0.0866	8.1264	0.0907	8.2171	2.2003	0.0861	2.2864	0.0000	8,114.2845	8,114.2845	0.0804	0.7068	8,326.9039

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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2038

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	0.2478	11.2030	3.2199	0.0437	1.7236	0.0725	1.7961	0.4982	0.0693	0.5675	0.0000	4,181.2796	4,181.2796	0.0145	0.6133	4,364.4136
Worker	1.1708	0.6763	11.8087	0.0429	6.4027	0.0182	6.4209	1.7021	0.0168	1.7189	0.0000	3,933.0049	3,933.0049	0.0659	0.0934	3,962.4903
Total	1.4186	11.8793	15.0286	0.0866	8.1264	0.0907	8.2171	2.2003	0.0861	2.2864	0.0000	8,114.2845	8,114.2845	0.0804	0.7068	8,326.9039

3.5 Building Construction - 2039

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	0.1582	0.9310	2.0953	4.0200e-003		0.0118	0.0118		0.0118	0.0118	0.0000	341.7193	341.7193	0.0127	0.0000	342.0375
Total	0.1582	0.9310	2.0953	4.0200e-003		0.0118	0.0118		0.0118	0.0118	0.0000	341.7193	341.7193	0.0127	0.0000	342.0375

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2039

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	0.2469	11.1600	3.2076	0.0435	1.7170	0.0722	1.7893	0.4963	0.0691	0.5654	0.0000	4,165.259 3	4,165.259 3	0.0144	0.6110	4,347.691 7
Worker	1.1663	0.6737	11.7634	0.0427	6.3782	0.0181	6.3963	1.6956	0.0167	1.7123	0.0000	3,917.935 9	3,917.935 9	0.0656	0.0931	3,947.308 3
Total	1.4132	11.8338	14.9710	0.0862	8.0953	0.0904	8.1856	2.1919	0.0858	2.2776	0.0000	8,083.195 3	8,083.195 3	0.0801	0.7040	8,295.000 0

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	0.1582	0.9310	2.0953	4.0200e-003		0.0118	0.0118		0.0118	0.0118	0.0000	341.7189	341.7189	0.0127	0.0000	342.0371
Total	0.1582	0.9310	2.0953	4.0200e-003		0.0118	0.0118		0.0118	0.0118	0.0000	341.7189	341.7189	0.0127	0.0000	342.0371

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2039

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	0.2469	11.1600	3.2076	0.0435	1.7170	0.0722	1.7893	0.4963	0.0691	0.5654	0.0000	4,165.259 3	4,165.259 3	0.0144	0.6110	4,347.691 7
Worker	1.1663	0.6737	11.7634	0.0427	6.3782	0.0181	6.3963	1.6956	0.0167	1.7123	0.0000	3,917.935 9	3,917.935 9	0.0656	0.0931	3,947.308 3
Total	1.4132	11.8338	14.9710	0.0862	8.0953	0.0904	8.1856	2.1919	0.0858	2.2776	0.0000	8,083.195 3	8,083.195 3	0.0801	0.7040	8,295.000 0

3.5 Building Construction - 2040

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2040

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	0.2464	11.1094	3.2382	0.0421	1.7237	0.0713	1.7950	0.4982	0.0682	0.5664	0.0000	4,026.650 2	4,026.650 2	0.0145	0.5897	4,202.757 5
Worker	0.8906	0.5821	10.6508	0.0408	6.4027	0.0141	6.4168	1.7021	0.0130	1.7151	0.0000	3,737.959 5	3,737.959 5	0.0508	0.0884	3,765.558 2
Total	1.1370	11.6915	13.8890	0.0828	8.1264	0.0854	8.2118	2.2003	0.0812	2.2815	0.0000	7,764.609 7	7,764.609 7	0.0653	0.6781	7,968.315 7

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2040

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	0.2464	11.1094	3.2382	0.0421	1.7237	0.0713	1.7950	0.4982	0.0682	0.5664	0.0000	4,026.650 2	4,026.650 2	0.0145	0.5897	4,202.757 5
Worker	0.8906	0.5821	10.6508	0.0408	6.4027	0.0141	6.4168	1.7021	0.0130	1.7151	0.0000	3,737.959 5	3,737.959 5	0.0508	0.0884	3,765.558 2
Total	1.1370	11.6915	13.8890	0.0828	8.1264	0.0854	8.2118	2.2003	0.0812	2.2815	0.0000	7,764.609 7	7,764.609 7	0.0653	0.6781	7,968.315 7

3.5 Building Construction - 2041

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2041

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	0.2464	11.1094	3.2382	0.0421	1.7237	0.0713	1.7950	0.4982	0.0682	0.5664	0.0000	4,026.650 2	4,026.650 2	0.0145	0.5897	4,202.757 5
Worker	0.8906	0.5821	10.6508	0.0408	6.4027	0.0141	6.4168	1.7021	0.0130	1.7151	0.0000	3,737.959 5	3,737.959 5	0.0508	0.0884	3,765.558 2
Total	1.1370	11.6915	13.8890	0.0828	8.1264	0.0854	8.2118	2.2003	0.0812	2.2815	0.0000	7,764.609 7	7,764.609 7	0.0653	0.6781	7,968.315 7

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2041

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	0.2464	11.1094	3.2382	0.0421	1.7237	0.0713	1.7950	0.4982	0.0682	0.5664	0.0000	4,026.650 2	4,026.650 2	0.0145	0.5897	4,202.757 5
Worker	0.8906	0.5821	10.6508	0.0408	6.4027	0.0141	6.4168	1.7021	0.0130	1.7151	0.0000	3,737.959 5	3,737.959 5	0.0508	0.0884	3,765.558 2
Total	1.1370	11.6915	13.8890	0.0828	8.1264	0.0854	8.2118	2.2003	0.0812	2.2815	0.0000	7,764.609 7	7,764.609 7	0.0653	0.6781	7,968.315 7

3.5 Building Construction - 2042

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2042

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	0.2464	11.1094	3.2382	0.0421	1.7237	0.0713	1.7950	0.4982	0.0682	0.5664	0.0000	4,026.650 2	4,026.650 2	0.0145	0.5897	4,202.757 5
Worker	0.8906	0.5821	10.6508	0.0408	6.4027	0.0141	6.4168	1.7021	0.0130	1.7151	0.0000	3,737.959 5	3,737.959 5	0.0508	0.0884	3,765.558 2
Total	1.1370	11.6915	13.8890	0.0828	8.1264	0.0854	8.2118	2.2003	0.0812	2.2815	0.0000	7,764.609 7	7,764.609 7	0.0653	0.6781	7,968.315 7

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2042

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	0.2464	11.1094	3.2382	0.0421	1.7237	0.0713	1.7950	0.4982	0.0682	0.5664	0.0000	4,026.650 2	4,026.650 2	0.0145	0.5897	4,202.757 5
Worker	0.8906	0.5821	10.6508	0.0408	6.4027	0.0141	6.4168	1.7021	0.0130	1.7151	0.0000	3,737.959 5	3,737.959 5	0.0508	0.0884	3,765.558 2
Total	1.1370	11.6915	13.8890	0.0828	8.1264	0.0854	8.2118	2.2003	0.0812	2.2815	0.0000	7,764.609 7	7,764.609 7	0.0653	0.6781	7,968.315 7

3.5 Building Construction - 2043

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2043

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	0.2464	11.1094	3.2382	0.0421	1.7237	0.0713	1.7950	0.4982	0.0682	0.5664	0.0000	4,026.650 2	4,026.650 2	0.0145	0.5897	4,202.757 5
Worker	0.8906	0.5821	10.6508	0.0408	6.4027	0.0141	6.4168	1.7021	0.0130	1.7151	0.0000	3,737.959 5	3,737.959 5	0.0508	0.0884	3,765.558 2
Total	1.1370	11.6915	13.8890	0.0828	8.1264	0.0854	8.2118	2.2003	0.0812	2.2815	0.0000	7,764.609 7	7,764.609 7	0.0653	0.6781	7,968.315 7

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2043

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	0.2464	11.1094	3.2382	0.0421	1.7237	0.0713	1.7950	0.4982	0.0682	0.5664	0.0000	4,026.650 2	4,026.650 2	0.0145	0.5897	4,202.757 5
Worker	0.8906	0.5821	10.6508	0.0408	6.4027	0.0141	6.4168	1.7021	0.0130	1.7151	0.0000	3,737.959 5	3,737.959 5	0.0508	0.0884	3,765.558 2
Total	1.1370	11.6915	13.8890	0.0828	8.1264	0.0854	8.2118	2.2003	0.0812	2.2815	0.0000	7,764.609 7	7,764.609 7	0.0653	0.6781	7,968.315 7

3.5 Building Construction - 2044

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2044

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	0.2464	11.1094	3.2382	0.0421	1.7237	0.0713	1.7950	0.4982	0.0682	0.5664	0.0000	4,026.650 2	4,026.650 2	0.0145	0.5897	4,202.757 5
Worker	0.8906	0.5821	10.6508	0.0408	6.4027	0.0141	6.4168	1.7021	0.0130	1.7151	0.0000	3,737.959 5	3,737.959 5	0.0508	0.0884	3,765.558 2
Total	1.1370	11.6915	13.8890	0.0828	8.1264	0.0854	8.2118	2.2003	0.0812	2.2815	0.0000	7,764.609 7	7,764.609 7	0.0653	0.6781	7,968.315 7

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2044

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	0.2464	11.1094	3.2382	0.0421	1.7237	0.0713	1.7950	0.4982	0.0682	0.5664	0.0000	4,026.650 2	4,026.650 2	0.0145	0.5897	4,202.757 5
Worker	0.8906	0.5821	10.6508	0.0408	6.4027	0.0141	6.4168	1.7021	0.0130	1.7151	0.0000	3,737.959 5	3,737.959 5	0.0508	0.0884	3,765.558 2
Total	1.1370	11.6915	13.8890	0.0828	8.1264	0.0854	8.2118	2.2003	0.0812	2.2815	0.0000	7,764.609 7	7,764.609 7	0.0653	0.6781	7,968.315 7

3.5 Building Construction - 2045

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	0.1556	0.8957	2.0954	4.0200e-003		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	341.7194	341.7194	0.0123	0.0000	342.0264
Total	0.1556	0.8957	2.0954	4.0200e-003		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	341.7194	341.7194	0.0123	0.0000	342.0264

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2045

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	0.2462	11.0526	3.2377	0.0411	1.7171	0.0707	1.7878	0.4963	0.0677	0.5640	0.0000	3,930.940 3	3,930.940 3	0.0144	0.5758	4,102.878 7
Worker	0.7662	0.5527	10.1332	0.0397	6.3782	0.0121	6.3903	1.6956	0.0111	1.7067	0.0000	3,639.750 7	3,639.750 7	0.0441	0.0866	3,666.668 1
Total	1.0124	11.6054	13.3709	0.0808	8.0953	0.0828	8.1781	2.1919	0.0788	2.2707	0.0000	7,570.691 0	7,570.691 0	0.0585	0.6624	7,769.546 8

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	0.1556	0.8957	2.0954	4.0200e-003		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	341.7190	341.7190	0.0123	0.0000	342.0260
Total	0.1556	0.8957	2.0954	4.0200e-003		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	341.7190	341.7190	0.0123	0.0000	342.0260

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2045

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	0.2462	11.0526	3.2377	0.0411	1.7171	0.0707	1.7878	0.4963	0.0677	0.5640	0.0000	3,930.940 3	3,930.940 3	0.0144	0.5758	4,102.878 7
Worker	0.7662	0.5527	10.1332	0.0397	6.3782	0.0121	6.3903	1.6956	0.0111	1.7067	0.0000	3,639.750 7	3,639.750 7	0.0441	0.0866	3,666.668 1
Total	1.0124	11.6054	13.3709	0.0808	8.0953	0.0828	8.1781	2.1919	0.0788	2.2707	0.0000	7,570.691 0	7,570.691 0	0.0585	0.6624	7,769.546 8

3.5 Building Construction - 2046

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2046

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	0.2471	11.0951	3.2502	0.0412	1.7237	0.0710	1.7947	0.4982	0.0679	0.5661	0.0000	3,946.0593	3,946.0593	0.0145	0.5780	4,118.6590
Worker	0.7692	0.5549	10.1722	0.0398	6.4027	0.0122	6.4149	1.7021	0.0112	1.7133	0.0000	3,653.7497	3,653.7497	0.0443	0.0870	3,680.7707
Total	1.0163	11.6500	13.4224	0.0811	8.1264	0.0832	8.2096	2.2003	0.0791	2.2794	0.0000	7,599.8090	7,599.8090	0.0588	0.6649	7,799.4297

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	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2046

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	0.2471	11.0951	3.2502	0.0412	1.7237	0.0710	1.7947	0.4982	0.0679	0.5661	0.0000	3,946.0593	3,946.0593	0.0145	0.5780	4,118.6590
Worker	0.7692	0.5549	10.1722	0.0398	6.4027	0.0122	6.4149	1.7021	0.0112	1.7133	0.0000	3,653.7497	3,653.7497	0.0443	0.0870	3,680.7707
Total	1.0163	11.6500	13.4224	0.0811	8.1264	0.0832	8.2096	2.2003	0.0791	2.2794	0.0000	7,599.8090	7,599.8090	0.0588	0.6649	7,799.4297

3.5 Building Construction - 2047

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	0.1209	0.6959	1.6280	3.1300e-003		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	265.4897	265.4897	9.5400e-003	0.0000	265.7282
Total	0.1209	0.6959	1.6280	3.1300e-003		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	265.4897	265.4897	9.5400e-003	0.0000	265.7282

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2047

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	0.1913	8.5870	2.5155	0.0319	1.3340	0.0550	1.3890	0.3856	0.0526	0.4382	0.0000	3,054.0383	3,054.0383	0.0112	0.4473	3,187.6211
Worker	0.5953	0.4294	7.8727	0.0308	4.9554	9.4000e-003	4.9648	1.3173	8.6600e-003	1.3260	0.0000	2,827.8063	2,827.8063	0.0343	0.0673	2,848.7191
Total	0.7866	9.0165	10.3882	0.0627	6.2894	0.0644	6.3538	1.7029	0.0612	1.7642	0.0000	5,881.8445	5,881.8445	0.0455	0.5146	6,036.3402

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	0.1209	0.6959	1.6280	3.1300e-003		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	265.4894	265.4894	9.5400e-003	0.0000	265.7279
Total	0.1209	0.6959	1.6280	3.1300e-003		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	265.4894	265.4894	9.5400e-003	0.0000	265.7279

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2047

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	0.1913	8.5870	2.5155	0.0319	1.3340	0.0550	1.3890	0.3856	0.0526	0.4382	0.0000	3,054.0383	3,054.0383	0.0112	0.4473	3,187.6211
Worker	0.5953	0.4294	7.8727	0.0308	4.9554	9.4000e-003	4.9648	1.3173	8.6600e-003	1.3260	0.0000	2,827.8063	2,827.8063	0.0343	0.0673	2,848.7191
Total	0.7866	9.0165	10.3882	0.0627	6.2894	0.0644	6.3538	1.7029	0.0612	1.7642	0.0000	5,881.8445	5,881.8445	0.0455	0.5146	6,036.3402

3.6 Paving - 2047

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	0.0298	0.1079	0.4666	8.3000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	71.0936	71.0936	2.3900e-003	0.0000	71.1533
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0298	0.1079	0.4666	8.3000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	71.0936	71.0936	2.3900e-003	0.0000	71.1533

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2047

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.1000e-004	5.6100e-003	2.0000e-005	3.5300e-003	1.0000e-005	3.5400e-003	9.4000e-004	1.0000e-005	9.4000e-004	0.0000	2.0138	2.0138	2.0000e-005	5.0000e-005	2.0287
Total	4.2000e-004	3.1000e-004	5.6100e-003	2.0000e-005	3.5300e-003	1.0000e-005	3.5400e-003	9.4000e-004	1.0000e-005	9.4000e-004	0.0000	2.0138	2.0138	2.0000e-005	5.0000e-005	2.0287

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	0.0298	0.1079	0.4666	8.3000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	71.0935	71.0935	2.3900e-003	0.0000	71.1532
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0298	0.1079	0.4666	8.3000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	71.0935	71.0935	2.3900e-003	0.0000	71.1532

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2047

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.1000e-004	5.6100e-003	2.0000e-005	3.5300e-003	1.0000e-005	3.5400e-003	9.4000e-004	1.0000e-005	9.4000e-004	0.0000	2.0138	2.0138	2.0000e-005	5.0000e-005	2.0287
Total	4.2000e-004	3.1000e-004	5.6100e-003	2.0000e-005	3.5300e-003	1.0000e-005	3.5400e-003	9.4000e-004	1.0000e-005	9.4000e-004	0.0000	2.0138	2.0138	2.0000e-005	5.0000e-005	2.0287

3.6 Paving - 2048

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	0.1092	0.3949	1.7083	3.0300e-003		0.0126	0.0126		0.0126	0.0126	0.0000	260.2748	260.2748	8.7500e-003	0.0000	260.4935
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1092	0.3949	1.7083	3.0300e-003		0.0126	0.0126		0.0126	0.0126	0.0000	260.2748	260.2748	8.7500e-003	0.0000	260.4935

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2048

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	1.1200e-003	0.0205	8.0000e-005	0.0129	2.0000e-005	0.0129	3.4300e-003	2.0000e-005	3.4600e-003	0.0000	7.3727	7.3727	9.0000e-005	1.8000e-004	7.4272
Total	1.5500e-003	1.1200e-003	0.0205	8.0000e-005	0.0129	2.0000e-005	0.0129	3.4300e-003	2.0000e-005	3.4600e-003	0.0000	7.3727	7.3727	9.0000e-005	1.8000e-004	7.4272

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	0.1092	0.3949	1.7083	3.0300e-003		0.0126	0.0126		0.0126	0.0126	0.0000	260.2745	260.2745	8.7500e-003	0.0000	260.4931
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1092	0.3949	1.7083	3.0300e-003		0.0126	0.0126		0.0126	0.0126	0.0000	260.2745	260.2745	8.7500e-003	0.0000	260.4931

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2048

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	1.1200e-003	0.0205	8.0000e-005	0.0129	2.0000e-005	0.0129	3.4300e-003	2.0000e-005	3.4600e-003	0.0000	7.3727	7.3727	9.0000e-005	1.8000e-004	7.4272
Total	1.5500e-003	1.1200e-003	0.0205	8.0000e-005	0.0129	2.0000e-005	0.0129	3.4300e-003	2.0000e-005	3.4600e-003	0.0000	7.3727	7.3727	9.0000e-005	1.8000e-004	7.4272

3.7 Architectural Coating - 2048

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.4786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6400e-003	0.0167	0.0412	7.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	5.8725	5.8725	2.1000e-004	0.0000	5.8777
Total	5.4813	0.0167	0.0412	7.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	5.8725	5.8725	2.1000e-004	0.0000	5.8777

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2048

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0271	0.0196	0.3584	1.4000e-003	0.2256	4.3000e-004	0.2261	0.0600	3.9000e-004	0.0604	0.0000	128.7493	128.7493	1.5600e-003	3.0600e-003	129.7015
Total	0.0271	0.0196	0.3584	1.4000e-003	0.2256	4.3000e-004	0.2261	0.0600	3.9000e-004	0.0604	0.0000	128.7493	128.7493	1.5600e-003	3.0600e-003	129.7015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.4786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6400e-003	0.0167	0.0412	7.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	5.8725	5.8725	2.1000e-004	0.0000	5.8776
Total	5.4813	0.0167	0.0412	7.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	5.8725	5.8725	2.1000e-004	0.0000	5.8776

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2048

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0271	0.0196	0.3584	1.4000e-003	0.2256	4.3000e-004	0.2261	0.0600	3.9000e-004	0.0604	0.0000	128.7493	128.7493	1.5600e-003	3.0600e-003	129.7015
Total	0.0271	0.0196	0.3584	1.4000e-003	0.2256	4.3000e-004	0.2261	0.0600	3.9000e-004	0.0604	0.0000	128.7493	128.7493	1.5600e-003	3.0600e-003	129.7015

3.7 Architectural Coating - 2049

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	27.2741					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.0832	0.2052	3.4000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	29.2348	29.2348	1.0300e-003	0.0000	29.2605
Total	27.2872	0.0832	0.2052	3.4000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	29.2348	29.2348	1.0300e-003	0.0000	29.2605

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2049

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1349	0.0973	1.7844	6.9900e-003	1.1232	2.1300e-003	1.1253	0.2986	1.9600e-003	0.3006	0.0000	640.9476	640.9476	7.7700e-003	0.0153	645.6877
Total	0.1349	0.0973	1.7844	6.9900e-003	1.1232	2.1300e-003	1.1253	0.2986	1.9600e-003	0.3006	0.0000	640.9476	640.9476	7.7700e-003	0.0153	645.6877

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	27.2741					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.0832	0.2052	3.4000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	29.2347	29.2347	1.0300e-003	0.0000	29.2604
Total	27.2872	0.0832	0.2052	3.4000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	29.2347	29.2347	1.0300e-003	0.0000	29.2604

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2049

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1349	0.0973	1.7844	6.9900e-003	1.1232	2.1300e-003	1.1253	0.2986	1.9600e-003	0.3006	0.0000	640.9476	640.9476	7.7700e-003	0.0153	645.6877
Total	0.1349	0.0973	1.7844	6.9900e-003	1.1232	2.1300e-003	1.1253	0.2986	1.9600e-003	0.3006	0.0000	640.9476	640.9476	7.7700e-003	0.0153	645.6877

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Convenience Market (24 hour)	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
University/College (4yr)	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Convenience Market (24 hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
University/College (4yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
City Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Condo/Townhouse	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Convenience Market (24 hour)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Office Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Regional Shopping Center	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Single Family Housing	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
University/College (4yr)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 hour)	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
University/College (4yr)	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 hour)	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
University/College (4yr)	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

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	44.9028	0.4709	40.8183	2.1700e-003		0.2272	0.2272		0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043
Unmitigated	44.9028	0.4709	40.8183	2.1700e-003		0.2272	0.2272		0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.6757					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2270	0.4709	40.8183	2.1700e-003		0.2272	0.2272		0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043
Total	44.9028	0.4709	40.8183	2.1700e-003		0.2272	0.2272		0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.6757					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2270	0.4709	40.8183	2.1700e-003		0.2272	0.2272		0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043
Total	44.9028	0.4709	40.8183	2.1700e-003		0.2272	0.2272		0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 hour)	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
University/College (4yr)	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 hour)	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
University/College (4yr)	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

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 hour)	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
University/College (4yr)	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 hour)	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
University/College (4yr)	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

UCP Construction - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

Equipment Type	Number
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11.0 Vegetation

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**UCP Construction
Merced County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	240.00	1000sqft	5.51	240,000.00	0
University/College (4yr)	10,000.00	Student	42.19	1,837,974.68	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments High Rise	1,362.00	Dwelling Unit	21.97	1,362,000.00	3895
Condo/Townhouse	446.00	Dwelling Unit	27.88	446,000.00	1276
Single Family Housing	3,700.00	Dwelling Unit	1,201.30	6,660,000.00	10582
Convenience Market (24 hour)	203.00	1000sqft	4.66	203,000.00	0
Regional Shopping Center	420.00	1000sqft	9.64	420,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2050
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - 20 year buildout
- Grading - acres of project
- Architectural Coating - SJV limit = 50 g/L

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Trips - VMT in other model

Woodstoves - in operational model

Area Coating - in operational model

Energy Use - in operational model

Water And Wastewater - in operational model

Solid Waste - in operational model

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	1350485	0
tblAreaCoating	Area_Nonresidential_Interior	4051455	0
tblAreaCoating	Area_Residential_Exterior	5715900	0
tblAreaCoating	Area_Residential_Interior	17147700	0
tblConstructionPhase	NumDays	10,000.00	250.00
tblConstructionPhase	NumDays	6,000.00	150.00
tblConstructionPhase	NumDays	15,500.00	338.00
tblConstructionPhase	NumDays	155,000.00	3,900.00
tblConstructionPhase	NumDays	11,000.00	275.00
tblConstructionPhase	NumDays	11,000.00	275.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	3.59	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	5.82	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	4.49	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24E	2.63	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	0.82	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	1.34	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	3.19	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24E	2.65	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	21.74	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblEnergyUse	T24NG	20.55	0.00

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberGas	749.10	0.00
tblFireplaces	NumberGas	245.30	0.00
tblFireplaces	NumberGas	2,035.00	0.00
tblFireplaces	NumberNoFireplace	612.90	0.00
tblFireplaces	NumberNoFireplace	200.70	0.00
tblFireplaces	NumberNoFireplace	1,665.00	0.00
tblGrading	AcresOfGrading	1,014.00	1,023.00
tblGrading	AcresOfGrading	225.00	1,023.00
tblSolidWaste	SolidWasteGenerationRate	626.52	0.00
tblSolidWaste	SolidWasteGenerationRate	11.61	0.00
tblSolidWaste	SolidWasteGenerationRate	205.16	0.00
tblSolidWaste	SolidWasteGenerationRate	610.06	0.00
tblSolidWaste	SolidWasteGenerationRate	223.20	0.00
tblSolidWaste	SolidWasteGenerationRate	441.00	0.00
tblSolidWaste	SolidWasteGenerationRate	3,809.52	0.00
tblSolidWaste	SolidWasteGenerationRate	1,825.00	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	1,084.17	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	ST_TR	1.30	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	901.17	0.00
tblVehicleTrips	SU_TR	0.76	0.00

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	762.28	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblVehicleTrips	WD_TR	1.56	0.00
tblWater	IndoorWaterUseRate	88,739,782.90	0.00
tblWater	IndoorWaterUseRate	29,058,695.43	0.00
tblWater	IndoorWaterUseRate	15,036,721.86	0.00
tblWater	IndoorWaterUseRate	42,656,099.52	0.00
tblWater	IndoorWaterUseRate	31,110,459.02	0.00
tblWater	IndoorWaterUseRate	241,069,894.80	0.00
tblWater	IndoorWaterUseRate	21,411,000.00	0.00
tblWater	OutdoorWaterUseRate	55,944,645.74	0.00
tblWater	OutdoorWaterUseRate	160,849,982.20	0.00
tblWater	OutdoorWaterUseRate	18,319,612.33	0.00
tblWater	OutdoorWaterUseRate	9,216,055.33	0.00
tblWater	OutdoorWaterUseRate	26,144,061.00	0.00
tblWater	OutdoorWaterUseRate	19,067,700.69	0.00
tblWater	OutdoorWaterUseRate	151,978,846.72	0.00
tblWater	OutdoorWaterUseRate	33,489,000.00	0.00
tblWoodstoves	NumberCatalytic	21.97	0.00
tblWoodstoves	NumberCatalytic	27.88	0.00
tblWoodstoves	NumberCatalytic	1,201.30	0.00
tblWoodstoves	NumberNoncatalytic	21.97	0.00

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberNoncatalytic	27.88	0.00
tblWoodstoves	NumberNoncatalytic	1,201.30	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	2.4833	13.6877	19.2233	0.0477	25.4467	0.4372	25.8840	10.7509	0.4372	11.1880	0.0000	4,525.3879	4,525.3879	0.2199	2.5600e-003	4,531.6462
2031	5.8049	27.5523	40.0547	0.1189	34.8429	0.9257	35.7686	14.4512	0.9256	15.3769	0.0000	11,861.5370	11,861.5370	0.5135	5.1800e-003	11,875.9180
2032	15.9547	96.5626	155.0775	0.7519	64.0682	0.8798	64.9480	17.3017	0.8419	18.1435	0.0000	77,309.6477	77,309.6477	0.8940	6.1803	79,173.7197
2033	15.0477	96.0267	150.7240	0.7406	64.0683	0.8669	64.9352	17.3017	0.8299	18.1316	0.0000	76,147.7909	76,147.7909	0.8457	6.0849	77,982.2222
2034	14.2452	95.5227	146.9727	0.7305	64.0683	0.8544	64.9227	17.3017	0.8183	18.1200	0.0000	75,111.2267	75,111.2267	0.8034	6.0008	76,919.5421
2035	13.4436	94.2694	143.7749	0.7216	64.0683	0.7848	64.8531	17.3017	0.7496	18.0513	0.0000	74,195.6231	74,195.6231	0.7585	5.9279	75,981.0910
2036	13.4436	94.2694	143.7749	0.7216	64.0683	0.7848	64.8531	17.3017	0.7496	18.0513	0.0000	74,195.6231	74,195.6231	0.7585	5.9279	75,981.0910
2037	13.4436	94.2694	143.7749	0.7216	64.0683	0.7848	64.8531	17.3017	0.7496	18.0513	0.0000	74,195.6231	74,195.6231	0.7585	5.9279	75,981.0910
2038	13.4436	94.2694	143.7749	0.7216	64.0683	0.7848	64.8531	17.3017	0.7496	18.0513	0.0000	74,195.6231	74,195.6231	0.7585	5.9279	75,981.0910
2039	13.4436	94.2694	143.7749	0.7216	64.0683	0.7848	64.8531	17.3017	0.7496	18.0513	0.0000	74,195.6231	74,195.6231	0.7585	5.9279	75,981.0910
2040	10.8276	92.6404	133.7238	0.6916	64.0685	0.7275	64.7960	17.3017	0.6952	17.9969	0.0000	71,105.0006	71,105.0006	0.6324	5.6881	72,815.8710
2041	10.8276	92.6404	133.7238	0.6916	64.0685	0.7275	64.7960	17.3017	0.6952	17.9969	0.0000	71,105.0006	71,105.0006	0.6324	5.6881	72,815.8710

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Year	lb/day										lb/day					
2042	10.8276	92.6404	133.7238	0.6916	64.0685	0.7275	64.7960	17.3017	0.6952	17.9969	0.0000	71,105.0006	71,105.0006	0.6324	5.6881	72,815.8710
2043	10.8276	92.6404	133.7238	0.6916	64.0685	0.7275	64.7960	17.3017	0.6952	17.9969	0.0000	71,105.0006	71,105.0006	0.6324	5.6881	72,815.8710
2044	10.8276	92.6404	133.7238	0.6916	64.0685	0.7275	64.7960	17.3017	0.6952	17.9969	0.0000	71,105.0006	71,105.0006	0.6324	5.6881	72,815.8710
2045	9.7428	92.3399	129.7100	0.6775	64.0685	0.7104	64.7790	17.3018	0.6794	17.9812	0.0000	69,653.6118	69,653.6118	0.5802	5.5775	71,330.2031
2046	9.7428	92.3399	129.7100	0.6775	64.0685	0.7104	64.7790	17.3018	0.6794	17.9812	0.0000	69,653.6118	69,653.6118	0.5802	5.5775	71,330.2031
2047	9.7428	92.3399	129.7100	0.6775	64.0685	0.7104	64.7790	17.3018	0.6794	17.9812	0.0000	69,653.6118	69,653.6118	0.5802	5.5775	71,330.2031
2048	239.6330	3.6663	19.6022	0.0691	10.1042	0.1167	10.1302	2.6801	0.1166	2.7047	0.0000	6,970.1758	6,970.1758	0.0901	0.1404	7,014.0186
2049	239.6330	1.5214	19.6022	0.0691	10.1042	0.0260	10.1302	2.6801	0.0246	2.7047	0.0000	6,970.1758	6,970.1758	0.0802	0.1404	7,014.0186
Maximum	239.6330	96.5626	155.0775	0.7519	64.0685	0.9257	64.9480	17.3018	0.9256	18.1435	0.0000	77,309.6477	77,309.6477	0.8940	6.1803	79,173.7197

2.1 Overall Construction (Maximum Daily Emission)

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					
2030	2.4833	13.6877	19.2233	0.0477	25.4467	0.4372	25.8840	10.7509	0.4372	11.1880	0.0000	4,525.3879	4,525.3879	0.2199	2.5600e-003	4,531.6462
2031	5.8049	27.5523	40.0547	0.1189	34.8429	0.9257	35.7686	14.4512	0.9256	15.3769	0.0000	11,861.5370	11,861.5370	0.5135	5.1800e-003	11,875.9180
2032	15.9547	96.5626	155.0775	0.7519	64.0682	0.8798	64.9480	17.3017	0.8419	18.1435	0.0000	77,309.6477	77,309.6477	0.8940	6.1803	79,173.7197

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Year	lb/day										lb/day					
2033	15.0477	96.0267	150.7240	0.7406	64.0683	0.8669	64.9352	17.3017	0.8299	18.1316	0.0000	76,147.7909	76,147.7909	0.8457	6.0849	77,982.2222
2034	14.2452	95.5227	146.9727	0.7305	64.0683	0.8544	64.9227	17.3017	0.8183	18.1200	0.0000	75,111.2267	75,111.2267	0.8034	6.0008	76,919.5421
2035	13.4436	94.2694	143.7749	0.7216	64.0683	0.7848	64.8531	17.3017	0.7496	18.0513	0.0000	74,195.6231	74,195.6231	0.7585	5.9279	75,981.0910
2036	13.4436	94.2694	143.7749	0.7216	64.0683	0.7848	64.8531	17.3017	0.7496	18.0513	0.0000	74,195.6231	74,195.6231	0.7585	5.9279	75,981.0910
2037	13.4436	94.2694	143.7749	0.7216	64.0683	0.7848	64.8531	17.3017	0.7496	18.0513	0.0000	74,195.6231	74,195.6231	0.7585	5.9279	75,981.0910
2038	13.4436	94.2694	143.7749	0.7216	64.0683	0.7848	64.8531	17.3017	0.7496	18.0513	0.0000	74,195.6231	74,195.6231	0.7585	5.9279	75,981.0910
2039	13.4436	94.2694	143.7749	0.7216	64.0683	0.7848	64.8531	17.3017	0.7496	18.0513	0.0000	74,195.6231	74,195.6231	0.7585	5.9279	75,981.0910
2040	10.8276	92.6404	133.7238	0.6916	64.0685	0.7275	64.7960	17.3017	0.6952	17.9969	0.0000	71,105.0006	71,105.0006	0.6324	5.6881	72,815.8710
2041	10.8276	92.6404	133.7238	0.6916	64.0685	0.7275	64.7960	17.3017	0.6952	17.9969	0.0000	71,105.0006	71,105.0006	0.6324	5.6881	72,815.8710
2042	10.8276	92.6404	133.7238	0.6916	64.0685	0.7275	64.7960	17.3017	0.6952	17.9969	0.0000	71,105.0006	71,105.0006	0.6324	5.6881	72,815.8710
2043	10.8276	92.6404	133.7238	0.6916	64.0685	0.7275	64.7960	17.3017	0.6952	17.9969	0.0000	71,105.0006	71,105.0006	0.6324	5.6881	72,815.8710
2044	10.8276	92.6404	133.7238	0.6916	64.0685	0.7275	64.7960	17.3017	0.6952	17.9969	0.0000	71,105.0006	71,105.0006	0.6324	5.6881	72,815.8710
2045	9.7428	92.3399	129.7100	0.6775	64.0685	0.7104	64.7790	17.3018	0.6794	17.9812	0.0000	69,653.6118	69,653.6118	0.5802	5.5775	71,330.2031
2046	9.7428	92.3399	129.7100	0.6775	64.0685	0.7104	64.7790	17.3018	0.6794	17.9812	0.0000	69,653.6118	69,653.6118	0.5802	5.5775	71,330.2031
2047	9.7428	92.3399	129.7100	0.6775	64.0685	0.7104	64.7790	17.3018	0.6794	17.9812	0.0000	69,653.6118	69,653.6118	0.5802	5.5775	71,330.2031
2048	239.6330	3.6663	19.6022	0.0691	10.1042	0.1167	10.1302	2.6801	0.1166	2.7047	0.0000	6,970.1758	6,970.1758	0.0901	0.1404	7,014.0186
2049	239.6330	1.5214	19.6022	0.0691	10.1042	0.0260	10.1302	2.6801	0.0246	2.7047	0.0000	6,970.1758	6,970.1758	0.0802	0.1404	7,014.0186
Maximum	239.6330	96.5626	155.0775	0.7519	64.0685	0.9257	64.9480	17.3018	0.9256	18.1435	0.0000	77,309.6477	77,309.6477	0.8940	6.1803	79,173.7197

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585
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
Total	252.9527	5.2321	453.5365	0.0241	0.0000	2.5239	2.5239	0.0000	2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585

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	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585
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
Total	252.9527	5.2321	453.5365	0.0241	0.0000	2.5239	2.5239	0.0000	2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1/1/2030	12/16/2030	5	250	
2	Site Preparation	Site Preparation	12/17/2030	7/14/2031	5	150	
3	Grading	Grading	7/14/2031	10/27/2032	5	338	
4	Building Construction	Building Construction	10/28/2032	10/9/2047	5	3900	
5	Paving	Paving	10/10/2047	10/28/2048	5	275	
6	Architectural Coating	Architectural Coating	10/29/2048	11/17/2049	5	275	

Acres of Grading (Site Preparation Phase): 1023

Acres of Grading (Grading Phase): 1023

Acres of Paving: 0

Residential Indoor: 17,147,700; Residential Outdoor: 5,715,900; Non-Residential Indoor: 4,051,462; Non-Residential Outdoor: 1,350,487; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	6,152.00	1,995.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1,230.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2030

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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
Total	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000

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	0.0362	0.0164	0.3066	9.5000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331		96.3619	96.3619	1.8800e-003	2.1300e-003	97.0439
Total	0.0362	0.0164	0.3066	9.5000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331		96.3619	96.3619	1.8800e-003	2.1300e-003	97.0439

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2030

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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
Total	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000

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	0.0362	0.0164	0.3066	9.5000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331		96.3619	96.3619	1.8800e-003	2.1300e-003	97.0439
Total	0.0362	0.0164	0.3066	9.5000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331		96.3619	96.3619	1.8800e-003	2.1300e-003	97.0439

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2030

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					25.2989	0.0000	25.2989	10.7116	0.0000	10.7116			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	25.2989	0.4367	25.7355	10.7116	0.4367	11.1483		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527
Total	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2030

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					25.2989	0.0000	25.2989	10.7116	0.0000	10.7116			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	25.2989	0.4367	25.7355	10.7116	0.4367	11.1483	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527
Total	0.0434	0.0197	0.3679	1.1400e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		115.6342	115.6342	2.2600e-003	2.5600e-003	116.4527

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2031

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					25.2989	0.0000	25.2989	10.7116	0.0000	10.7116			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	25.2989	0.4367	25.7355	10.7116	0.4367	11.1483		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0399	0.0181	0.3500	1.1200e-003	0.1479	5.3000e-004	0.1484	0.0392	4.8000e-004	0.0397		113.0565	113.0565	2.0700e-003	2.4500e-003	113.8397
Total	0.0399	0.0181	0.3500	1.1200e-003	0.1479	5.3000e-004	0.1484	0.0392	4.8000e-004	0.0397		113.0565	113.0565	2.0700e-003	2.4500e-003	113.8397

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2031

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					25.2989	0.0000	25.2989	10.7116	0.0000	10.7116			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	25.2989	0.4367	25.7355	10.7116	0.4367	11.1483	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0399	0.0181	0.3500	1.1200e-003	0.1479	5.3000e-004	0.1484	0.0392	4.8000e-004	0.0397		113.0565	113.0565	2.0700e-003	2.4500e-003	113.8397
Total	0.0399	0.0181	0.3500	1.1200e-003	0.1479	5.3000e-004	0.1484	0.0392	4.8000e-004	0.0397		113.0565	113.0565	2.0700e-003	2.4500e-003	113.8397

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2031

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					9.2318	0.0000	9.2318	3.6568	0.0000	3.6568			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	9.2318	0.4879	9.7198	3.6568	0.4879	4.1447		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885
Total	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2031

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					9.2318	0.0000	9.2318	3.6568	0.0000	3.6568			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	9.2318	0.4879	9.7198	3.6568	0.4879	4.1447	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885
Total	0.0444	0.0201	0.3889	1.2400e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		125.6183	125.6183	2.3000e-003	2.7300e-003	126.4885

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2032

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					9.2318	0.0000	9.2318	3.6568	0.0000	3.6568			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	9.2318	0.4879	9.7198	3.6568	0.4879	4.1447		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0411	0.0186	0.3725	1.2200e-003	0.1643	5.5000e-004	0.1648	0.0436	5.0000e-004	0.0441		123.0745	123.0745	2.1200e-003	2.6400e-003	123.9128
Total	0.0411	0.0186	0.3725	1.2200e-003	0.1643	5.5000e-004	0.1648	0.0436	5.0000e-004	0.0441		123.0745	123.0745	2.1200e-003	2.6400e-003	123.9128

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2032

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					9.2318	0.0000	9.2318	3.6568	0.0000	3.6568			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	9.2318	0.4879	9.7198	3.6568	0.4879	4.1447	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0411	0.0186	0.3725	1.2200e-003	0.1643	5.5000e-004	0.1648	0.0436	5.0000e-004	0.0441		123.0745	123.0745	2.1200e-003	2.6400e-003	123.9128
Total	0.0411	0.0186	0.3725	1.2200e-003	0.1643	5.5000e-004	0.1648	0.0436	5.0000e-004	0.0441		123.0745	123.0745	2.1200e-003	2.6400e-003	123.9128

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.9962	82.8928	24.3556	0.3464	13.5310	0.5630	14.0940	3.8968	0.5386	4.4354		36,554.4011	36,554.4011	0.1259	5.3696	38,157.6782
Worker	12.6493	5.7352	114.5649	0.3745	50.5372	0.1686	50.7059	13.4048	0.1552	13.5600		37,857.6998	37,857.6998	0.6518	0.8107	38,115.5887
Total	14.6456	88.6280	138.9205	0.7209	64.0682	0.7317	64.7999	17.3017	0.6937	17.9954		74,412.1009	74,412.1009	0.7777	6.1803	76,273.2669

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.9962	82.8928	24.3556	0.3464	13.5310	0.5630	14.0940	3.8968	0.5386	4.4354		36,554.4011	36,554.4011	0.1259	5.3696	38,157.6782
Worker	12.6493	5.7352	114.5649	0.3745	50.5372	0.1686	50.7059	13.4048	0.1552	13.5600		37,857.6998	37,857.6998	0.6518	0.8107	38,115.5887
Total	14.6456	88.6280	138.9205	0.7209	64.0682	0.7317	64.7999	17.3017	0.6937	17.9954		74,412.1009	74,412.1009	0.7777	6.1803	76,273.2669

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.9839	82.7244	24.3146	0.3419	13.5311	0.5607	14.0917	3.8968	0.5363	4.4331		36,086.8565	36,086.8565	0.1254	5.2973	37,668.5719
Worker	11.7547	5.3677	110.2524	0.3677	50.5372	0.1581	50.6953	13.4048	0.1455	13.5503		37,163.3876	37,163.3876	0.6040	0.7876	37,413.1974
Total	13.7386	88.0921	134.5670	0.7096	64.0683	0.7187	64.7870	17.3017	0.6818	17.9834		73,250.2441	73,250.2441	0.7295	6.0849	75,081.7693

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.9839	82.7244	24.3146	0.3419	13.5311	0.5607	14.0917	3.8968	0.5363	4.4331		36,086.8565	36,086.8565	0.1254	5.2973	37,668.5719
Worker	11.7547	5.3677	110.2524	0.3677	50.5372	0.1581	50.6953	13.4048	0.1455	13.5503		37,163.3876	37,163.3876	0.6040	0.7876	37,413.1974
Total	13.7386	88.0921	134.5670	0.7096	64.0683	0.7187	64.7870	17.3017	0.6818	17.9834		73,250.2441	73,250.2441	0.7295	6.0849	75,081.7693

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2034

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.9743	82.5168	24.2983	0.3379	13.5311	0.5579	14.0890	3.8968	0.5337	4.4305		35,664.0571	35,664.0571	0.1251	5.2319	37,226.2744
Worker	10.9618	5.0713	106.5174	0.3616	50.5372	0.1483	50.6856	13.4048	0.1365	13.5413		36,549.6229	36,549.6229	0.5620	0.7689	36,792.8149
Total	12.9361	87.5881	130.8158	0.6995	64.0683	0.7062	64.7745	17.3017	0.6702	17.9718		72,213.6799	72,213.6799	0.6871	6.0008	74,019.0892

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2034

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.9743	82.5168	24.2983	0.3379	13.5311	0.5579	14.0890	3.8968	0.5337	4.4305		35,664.0571	35,664.0571	0.1251	5.2319	37,226.2744
Worker	10.9618	5.0713	106.5174	0.3616	50.5372	0.1483	50.6856	13.4048	0.1365	13.5413		36,549.6229	36,549.6229	0.5620	0.7689	36,792.8149
Total	12.9361	87.5881	130.8158	0.6995	64.0683	0.7062	64.7745	17.3017	0.6702	17.9718		72,213.6799	72,213.6799	0.6871	6.0008	74,019.0892

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2035

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.9660	82.2689	24.2950	0.3344	13.5311	0.5549	14.0860	3.8969	0.5308	4.4277		35,287.6732	35,287.6732	0.1249	5.1737	36,832.5649
Worker	10.2608	4.8392	103.3621	0.3563	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		36,010.4032	36,010.4032	0.5257	0.7542	36,248.2814
Total	12.2268	87.1081	127.6571	0.6906	64.0683	0.6944	64.7627	17.3017	0.6592	17.9608		71,298.0764	71,298.0764	0.6506	5.9279	73,080.8463

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2035

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.9660	82.2689	24.2950	0.3344	13.5311	0.5549	14.0860	3.8969	0.5308	4.4277		35,287.6732	35,287.6732	0.1249	5.1737	36,832.5649
Worker	10.2608	4.8392	103.3621	0.3563	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		36,010.4032	36,010.4032	0.5257	0.7542	36,248.2814
Total	12.2268	87.1081	127.6571	0.6906	64.0683	0.6944	64.7627	17.3017	0.6592	17.9608		71,298.0764	71,298.0764	0.6506	5.9279	73,080.8463

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2036

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.9660	82.2689	24.2950	0.3344	13.5311	0.5549	14.0860	3.8969	0.5308	4.4277		35,287.6732	35,287.6732	0.1249	5.1737	36,832.5649
Worker	10.2608	4.8392	103.3621	0.3563	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		36,010.4032	36,010.4032	0.5257	0.7542	36,248.2814
Total	12.2268	87.1081	127.6571	0.6906	64.0683	0.6944	64.7627	17.3017	0.6592	17.9608		71,298.0764	71,298.0764	0.6506	5.9279	73,080.8463

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2036

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.9660	82.2689	24.2950	0.3344	13.5311	0.5549	14.0860	3.8969	0.5308	4.4277		35,287.6732	35,287.6732	0.1249	5.1737	36,832.5649
Worker	10.2608	4.8392	103.3621	0.3563	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		36,010.4032	36,010.4032	0.5257	0.7542	36,248.2814
Total	12.2268	87.1081	127.6571	0.6906	64.0683	0.6944	64.7627	17.3017	0.6592	17.9608		71,298.0764	71,298.0764	0.6506	5.9279	73,080.8463

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2037

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.9660	82.2689	24.2950	0.3344	13.5311	0.5549	14.0860	3.8969	0.5308	4.4277		35,287.6732	35,287.6732	0.1249	5.1737	36,832.5649
Worker	10.2608	4.8392	103.3621	0.3563	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		36,010.4032	36,010.4032	0.5257	0.7542	36,248.2814
Total	12.2268	87.1081	127.6571	0.6906	64.0683	0.6944	64.7627	17.3017	0.6592	17.9608		71,298.0764	71,298.0764	0.6506	5.9279	73,080.8463

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2037

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.9660	82.2689	24.2950	0.3344	13.5311	0.5549	14.0860	3.8969	0.5308	4.4277		35,287.6732	35,287.6732	0.1249	5.1737	36,832.5649
Worker	10.2608	4.8392	103.3621	0.3563	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		36,010.4032	36,010.4032	0.5257	0.7542	36,248.2814
Total	12.2268	87.1081	127.6571	0.6906	64.0683	0.6944	64.7627	17.3017	0.6592	17.9608		71,298.0764	71,298.0764	0.6506	5.9279	73,080.8463

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2038

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.9660	82.2689	24.2950	0.3344	13.5311	0.5549	14.0860	3.8969	0.5308	4.4277		35,287.6732	35,287.6732	0.1249	5.1737	36,832.5649
Worker	10.2608	4.8392	103.3621	0.3563	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		36,010.4032	36,010.4032	0.5257	0.7542	36,248.2814
Total	12.2268	87.1081	127.6571	0.6906	64.0683	0.6944	64.7627	17.3017	0.6592	17.9608		71,298.0764	71,298.0764	0.6506	5.9279	73,080.8463

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2038

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.9660	82.2689	24.2950	0.3344	13.5311	0.5549	14.0860	3.8969	0.5308	4.4277		35,287.6732	35,287.6732	0.1249	5.1737	36,832.5649
Worker	10.2608	4.8392	103.3621	0.3563	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		36,010.4032	36,010.4032	0.5257	0.7542	36,248.2814
Total	12.2268	87.1081	127.6571	0.6906	64.0683	0.6944	64.7627	17.3017	0.6592	17.9608		71,298.0764	71,298.0764	0.6506	5.9279	73,080.8463

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2039

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.9660	82.2689	24.2950	0.3344	13.5311	0.5549	14.0860	3.8969	0.5308	4.4277		35,287.6732	35,287.6732	0.1249	5.1737	36,832.5649
Worker	10.2608	4.8392	103.3621	0.3563	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		36,010.4032	36,010.4032	0.5257	0.7542	36,248.2814
Total	12.2268	87.1081	127.6571	0.6906	64.0683	0.6944	64.7627	17.3017	0.6592	17.9608		71,298.0764	71,298.0764	0.6506	5.9279	73,080.8463

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2039

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.9660	82.2689	24.2950	0.3344	13.5311	0.5549	14.0860	3.8969	0.5308	4.4277		35,287.6732	35,287.6732	0.1249	5.1737	36,832.5649
Worker	10.2608	4.8392	103.3621	0.3563	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		36,010.4032	36,010.4032	0.5257	0.7542	36,248.2814
Total	12.2268	87.1081	127.6571	0.6906	64.0683	0.6944	64.7627	17.3017	0.6592	17.9608		71,298.0764	71,298.0764	0.6506	5.9279	73,080.8463

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2040

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9554	81.5820	24.4269	0.3220	13.5312	0.5459	14.0771	3.8969	0.5222	4.4191		33,982.03 84	33,982.03 84	0.1252	4.9747	35,467.61 73
Worker	7.6752	4.1682	93.1784	0.3386	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		34,225.41 51	34,225.41 51	0.4031	0.7135	34,448.10 34
Total	9.6306	85.7501	117.6053	0.6606	64.0685	0.6538	64.7222	17.3017	0.6215	17.9232		68,207.45 34	68,207.45 34	0.5282	5.6881	69,915.72 07

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2040

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9554	81.5820	24.4269	0.3220	13.5312	0.5459	14.0771	3.8969	0.5222	4.4191		33,982.03 84	33,982.03 84	0.1252	4.9747	35,467.61 73
Worker	7.6752	4.1682	93.1784	0.3386	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		34,225.41 51	34,225.41 51	0.4031	0.7135	34,448.10 34
Total	9.6306	85.7501	117.6053	0.6606	64.0685	0.6538	64.7222	17.3017	0.6215	17.9232		68,207.45 34	68,207.45 34	0.5282	5.6881	69,915.72 07

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2041

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9554	81.5820	24.4269	0.3220	13.5312	0.5459	14.0771	3.8969	0.5222	4.4191		33,982.03 84	33,982.03 84	0.1252	4.9747	35,467.61 73
Worker	7.6752	4.1682	93.1784	0.3386	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		34,225.41 51	34,225.41 51	0.4031	0.7135	34,448.10 34
Total	9.6306	85.7501	117.6053	0.6606	64.0685	0.6538	64.7222	17.3017	0.6215	17.9232		68,207.45 34	68,207.45 34	0.5282	5.6881	69,915.72 07

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2041

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9554	81.5820	24.4269	0.3220	13.5312	0.5459	14.0771	3.8969	0.5222	4.4191		33,982.03 84	33,982.03 84	0.1252	4.9747	35,467.61 73
Worker	7.6752	4.1682	93.1784	0.3386	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		34,225.41 51	34,225.41 51	0.4031	0.7135	34,448.10 34
Total	9.6306	85.7501	117.6053	0.6606	64.0685	0.6538	64.7222	17.3017	0.6215	17.9232		68,207.45 34	68,207.45 34	0.5282	5.6881	69,915.72 07

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2042

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9554	81.5820	24.4269	0.3220	13.5312	0.5459	14.0771	3.8969	0.5222	4.4191		33,982.03 84	33,982.03 84	0.1252	4.9747	35,467.61 73
Worker	7.6752	4.1682	93.1784	0.3386	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		34,225.41 51	34,225.41 51	0.4031	0.7135	34,448.10 34
Total	9.6306	85.7501	117.6053	0.6606	64.0685	0.6538	64.7222	17.3017	0.6215	17.9232		68,207.45 34	68,207.45 34	0.5282	5.6881	69,915.72 07

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2042

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9554	81.5820	24.4269	0.3220	13.5312	0.5459	14.0771	3.8969	0.5222	4.4191		33,982.03 84	33,982.03 84	0.1252	4.9747	35,467.61 73
Worker	7.6752	4.1682	93.1784	0.3386	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		34,225.41 51	34,225.41 51	0.4031	0.7135	34,448.10 34
Total	9.6306	85.7501	117.6053	0.6606	64.0685	0.6538	64.7222	17.3017	0.6215	17.9232		68,207.45 34	68,207.45 34	0.5282	5.6881	69,915.72 07

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2043

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9554	81.5820	24.4269	0.3220	13.5312	0.5459	14.0771	3.8969	0.5222	4.4191		33,982.03 84	33,982.03 84	0.1252	4.9747	35,467.61 73
Worker	7.6752	4.1682	93.1784	0.3386	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		34,225.41 51	34,225.41 51	0.4031	0.7135	34,448.10 34
Total	9.6306	85.7501	117.6053	0.6606	64.0685	0.6538	64.7222	17.3017	0.6215	17.9232		68,207.45 34	68,207.45 34	0.5282	5.6881	69,915.72 07

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2043

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9554	81.5820	24.4269	0.3220	13.5312	0.5459	14.0771	3.8969	0.5222	4.4191		33,982.03 84	33,982.03 84	0.1252	4.9747	35,467.61 73
Worker	7.6752	4.1682	93.1784	0.3386	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		34,225.41 51	34,225.41 51	0.4031	0.7135	34,448.10 34
Total	9.6306	85.7501	117.6053	0.6606	64.0685	0.6538	64.7222	17.3017	0.6215	17.9232		68,207.45 34	68,207.45 34	0.5282	5.6881	69,915.72 07

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2044

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9554	81.5820	24.4269	0.3220	13.5312	0.5459	14.0771	3.8969	0.5222	4.4191		33,982.03 84	33,982.03 84	0.1252	4.9747	35,467.61 73
Worker	7.6752	4.1682	93.1784	0.3386	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		34,225.41 51	34,225.41 51	0.4031	0.7135	34,448.10 34
Total	9.6306	85.7501	117.6053	0.6606	64.0685	0.6538	64.7222	17.3017	0.6215	17.9232		68,207.45 34	68,207.45 34	0.5282	5.6881	69,915.72 07

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2044

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9554	81.5820	24.4269	0.3220	13.5312	0.5459	14.0771	3.8969	0.5222	4.4191		33,982.03 84	33,982.03 84	0.1252	4.9747	35,467.61 73
Worker	7.6752	4.1682	93.1784	0.3386	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		34,225.41 51	34,225.41 51	0.4031	0.7135	34,448.10 34
Total	9.6306	85.7501	117.6053	0.6606	64.0685	0.6538	64.7222	17.3017	0.6215	17.9232		68,207.45 34	68,207.45 34	0.5282	5.6881	69,915.72 07

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2045

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9608	81.4762	24.5132	0.3156	13.5313	0.5436	14.0749	3.8969	0.5200	4.4169		33,301.54 98	33,301.54 98	0.1247	4.8753	34,757.49 13
Worker	6.5849	3.9733	89.0784	0.3310	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		33,454.51 49	33,454.51 49	0.3514	0.7022	33,672.56 15
Total	8.5458	85.4495	113.5916	0.6466	64.0685	0.6367	64.7052	17.3018	0.6057	17.9074		66,756.06 47	66,756.06 47	0.4761	5.5775	68,430.05 28

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2045

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9608	81.4762	24.5132	0.3156	13.5313	0.5436	14.0749	3.8969	0.5200	4.4169		33,301.54 98	33,301.54 98	0.1247	4.8753	34,757.49 13
Worker	6.5849	3.9733	89.0784	0.3310	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		33,454.51 49	33,454.51 49	0.3514	0.7022	33,672.56 15
Total	8.5458	85.4495	113.5916	0.6466	64.0685	0.6367	64.7052	17.3018	0.6057	17.9074		66,756.06 47	66,756.06 47	0.4761	5.5775	68,430.05 28

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2046

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9608	81.4762	24.5132	0.3156	13.5313	0.5436	14.0749	3.8969	0.5200	4.4169		33,301.54 98	33,301.54 98	0.1247	4.8753	34,757.49 13
Worker	6.5849	3.9733	89.0784	0.3310	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		33,454.51 49	33,454.51 49	0.3514	0.7022	33,672.56 15
Total	8.5458	85.4495	113.5916	0.6466	64.0685	0.6367	64.7052	17.3018	0.6057	17.9074		66,756.06 47	66,756.06 47	0.4761	5.5775	68,430.05 28

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2046

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9608	81.4762	24.5132	0.3156	13.5313	0.5436	14.0749	3.8969	0.5200	4.4169		33,301.54 98	33,301.54 98	0.1247	4.8753	34,757.49 13
Worker	6.5849	3.9733	89.0784	0.3310	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		33,454.51 49	33,454.51 49	0.3514	0.7022	33,672.56 15
Total	8.5458	85.4495	113.5916	0.6466	64.0685	0.6367	64.7052	17.3018	0.6057	17.9074		66,756.06 47	66,756.06 47	0.4761	5.5775	68,430.05 28

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2047

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9608	81.4762	24.5132	0.3156	13.5313	0.5436	14.0749	3.8969	0.5200	4.4169		33,301.54 98	33,301.54 98	0.1247	4.8753	34,757.49 13
Worker	6.5849	3.9733	89.0784	0.3310	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		33,454.51 49	33,454.51 49	0.3514	0.7022	33,672.56 15
Total	8.5458	85.4495	113.5916	0.6466	64.0685	0.6367	64.7052	17.3018	0.6057	17.9074		66,756.06 47	66,756.06 47	0.4761	5.5775	68,430.05 28

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2047

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.9608	81.4762	24.5132	0.3156	13.5313	0.5436	14.0749	3.8969	0.5200	4.4169		33,301.54 98	33,301.54 98	0.1247	4.8753	34,757.49 13
Worker	6.5849	3.9733	89.0784	0.3310	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		33,454.51 49	33,454.51 49	0.3514	0.7022	33,672.56 15
Total	8.5458	85.4495	113.5916	0.6466	64.0685	0.6367	64.7052	17.3018	0.6057	17.9074		66,756.06 47	66,756.06 47	0.4761	5.5775	68,430.05 28

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2047

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0161	9.6900e-003	0.2172	8.1000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		81.5699	81.5699	8.6000e-004	1.7100e-003	82.1015
Total	0.0161	9.6900e-003	0.2172	8.1000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		81.5699	81.5699	8.6000e-004	1.7100e-003	82.1015

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2047

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0161	9.6900e-003	0.2172	8.1000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		81.5699	81.5699	8.6000e-004	1.7100e-003	82.1015
Total	0.0161	9.6900e-003	0.2172	8.1000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		81.5699	81.5699	8.6000e-004	1.7100e-003	82.1015

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2048

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0161	9.6900e-003	0.2172	8.1000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		81.5699	81.5699	8.6000e-004	1.7100e-003	82.1015
Total	0.0161	9.6900e-003	0.2172	8.1000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		81.5699	81.5699	8.6000e-004	1.7100e-003	82.1015

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2048

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0161	9.6900e-003	0.2172	8.1000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		81.5699	81.5699	8.6000e-004	1.7100e-003	82.1015
Total	0.0161	9.6900e-003	0.2172	8.1000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		81.5699	81.5699	8.6000e-004	1.7100e-003	82.1015

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2048

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	238.2015					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	238.3164	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

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	1.3166	0.7944	17.8099	0.0662	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		6,688.7278	6,688.7278	0.0703	0.1404	6,732.3229
Total	1.3166	0.7944	17.8099	0.0662	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		6,688.7278	6,688.7278	0.0703	0.1404	6,732.3229

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2048

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	238.2015					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	238.3164	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

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	1.3166	0.7944	17.8099	0.0662	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		6,688.7278	6,688.7278	0.0703	0.1404	6,732.3229
Total	1.3166	0.7944	17.8099	0.0662	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		6,688.7278	6,688.7278	0.0703	0.1404	6,732.3229

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2049

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	238.2015					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	238.3164	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

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	1.3166	0.7944	17.8099	0.0662	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		6,688.7278	6,688.7278	0.0703	0.1404	6,732.3229
Total	1.3166	0.7944	17.8099	0.0662	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		6,688.7278	6,688.7278	0.0703	0.1404	6,732.3229

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2049

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	238.2015					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	238.3164	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

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	1.3166	0.7944	17.8099	0.0662	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		6,688.7278	6,688.7278	0.0703	0.1404	6,732.3229
Total	1.3166	0.7944	17.8099	0.0662	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		6,688.7278	6,688.7278	0.0703	0.1404	6,732.3229

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Convenience Market (24 hour)	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
University/College (4yr)	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Convenience Market (24 hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
University/College (4yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
City Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Condo/Townhouse	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Convenience Market (24 hour)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Office Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Regional Shopping Center	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Single Family Housing	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
University/College (4yr)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Convenience Market (24 hour)	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
Office Park	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
Regional Shopping Center	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
Single Family Housing	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
University/College (4yr)	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

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Convenience Market (24 hour)	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
Office Park	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
Regional Shopping Center	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
Single Family Housing	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
University/College (4yr)	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

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585
Unmitigated	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	239.3190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	13.6336	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239		820.6330	820.6330	0.7850		840.2585
Total	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	239.3190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	13.6336	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239		820.6330	820.6330	0.7850		840.2585
Total	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585

7.0 Water Detail

7.1 Mitigation Measures Water

UCP Construction - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**UCP Construction
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	240.00	1000sqft	5.51	240,000.00	0
University/College (4yr)	10,000.00	Student	42.19	1,837,974.68	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments High Rise	1,362.00	Dwelling Unit	21.97	1,362,000.00	3895
Condo/Townhouse	446.00	Dwelling Unit	27.88	446,000.00	1276
Single Family Housing	3,700.00	Dwelling Unit	1,201.30	6,660,000.00	10582
Convenience Market (24 hour)	203.00	1000sqft	4.66	203,000.00	0
Regional Shopping Center	420.00	1000sqft	9.64	420,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2050
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - 20 year buildout
- Grading - acres of project
- Architectural Coating - SJV limit = 50 g/L

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Trips - VMT in other model

Woodstoves - in operational model

Area Coating - in operational model

Energy Use - in operational model

Water And Wastewater - in operational model

Solid Waste - in operational model

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	1350485	0
tblAreaCoating	Area_Nonresidential_Interior	4051455	0
tblAreaCoating	Area_Residential_Exterior	5715900	0
tblAreaCoating	Area_Residential_Interior	17147700	0
tblConstructionPhase	NumDays	10,000.00	250.00
tblConstructionPhase	NumDays	6,000.00	150.00
tblConstructionPhase	NumDays	15,500.00	338.00
tblConstructionPhase	NumDays	155,000.00	3,900.00
tblConstructionPhase	NumDays	11,000.00	275.00
tblConstructionPhase	NumDays	11,000.00	275.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	3.59	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	1,608.84	0.00

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	5.82	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	4.49	0.00
tblEnergyUse	NT24E	2.30	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24E	2.63	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	0.82	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	1.34	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	3.19	0.00
tblEnergyUse	T24E	1.91	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24E	2.65	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	21.74	0.00
tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblEnergyUse	T24NG	20.55	0.00

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberGas	749.10	0.00
tblFireplaces	NumberGas	245.30	0.00
tblFireplaces	NumberGas	2,035.00	0.00
tblFireplaces	NumberNoFireplace	612.90	0.00
tblFireplaces	NumberNoFireplace	200.70	0.00
tblFireplaces	NumberNoFireplace	1,665.00	0.00
tblGrading	AcresOfGrading	1,014.00	1,023.00
tblGrading	AcresOfGrading	225.00	1,023.00
tblSolidWaste	SolidWasteGenerationRate	626.52	0.00
tblSolidWaste	SolidWasteGenerationRate	11.61	0.00
tblSolidWaste	SolidWasteGenerationRate	205.16	0.00
tblSolidWaste	SolidWasteGenerationRate	610.06	0.00
tblSolidWaste	SolidWasteGenerationRate	223.20	0.00
tblSolidWaste	SolidWasteGenerationRate	441.00	0.00
tblSolidWaste	SolidWasteGenerationRate	3,809.52	0.00
tblSolidWaste	SolidWasteGenerationRate	1,825.00	0.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	1,084.17	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	ST_TR	1.30	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	901.17	0.00
tblVehicleTrips	SU_TR	0.76	0.00

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	762.28	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblVehicleTrips	WD_TR	1.56	0.00
tblWater	IndoorWaterUseRate	88,739,782.90	0.00
tblWater	IndoorWaterUseRate	29,058,695.43	0.00
tblWater	IndoorWaterUseRate	15,036,721.86	0.00
tblWater	IndoorWaterUseRate	42,656,099.52	0.00
tblWater	IndoorWaterUseRate	31,110,459.02	0.00
tblWater	IndoorWaterUseRate	241,069,894.80	0.00
tblWater	IndoorWaterUseRate	21,411,000.00	0.00
tblWater	OutdoorWaterUseRate	55,944,645.74	0.00
tblWater	OutdoorWaterUseRate	160,849,982.20	0.00
tblWater	OutdoorWaterUseRate	18,319,612.33	0.00
tblWater	OutdoorWaterUseRate	9,216,055.33	0.00
tblWater	OutdoorWaterUseRate	26,144,061.00	0.00
tblWater	OutdoorWaterUseRate	19,067,700.69	0.00
tblWater	OutdoorWaterUseRate	151,978,846.72	0.00
tblWater	OutdoorWaterUseRate	33,489,000.00	0.00
tblWoodstoves	NumberCatalytic	21.97	0.00
tblWoodstoves	NumberCatalytic	27.88	0.00
tblWoodstoves	NumberCatalytic	1,201.30	0.00
tblWoodstoves	NumberNoncatalytic	21.97	0.00

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberNoncatalytic	27.88	0.00
tblWoodstoves	NumberNoncatalytic	1,201.30	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	2.4790	13.6913	19.1836	0.0476	25.4467	0.4372	25.8840	10.7509	0.4372	11.1880	0.0000	4,513.2425	4,513.2425	0.2201	2.8600e-003	4,519.5972
2031	5.7967	27.5592	39.9602	0.1186	34.8429	0.9257	35.7686	14.4512	0.9256	15.3769	0.0000	11,836.4764	11,836.4764	0.5141	5.7900e-003	11,851.0519
2032	14.5918	103.3227	141.4279	0.7132	64.0682	0.8812	64.9495	17.3017	0.8432	18.1449	0.0000	73,410.4614	73,410.4614	0.9760	6.2903	75,309.3719
2033	13.7945	102.7086	137.7425	0.7027	64.0683	0.8683	64.9366	17.3017	0.8313	18.1329	0.0000	72,320.9351	72,320.9351	0.9233	6.1918	74,189.1665
2034	13.1013	102.1385	134.5603	0.6932	64.0683	0.8558	64.9241	17.3017	0.8196	18.1213	0.0000	71,348.1793	71,348.1793	0.8768	6.1052	73,189.4503
2035	12.4019	100.8289	131.8276	0.6849	64.0683	0.7862	64.8545	17.3017	0.7509	18.0526	0.0000	70,488.5049	70,488.5049	0.8281	6.0304	72,306.2524
2036	12.4019	100.8289	131.8276	0.6849	64.0683	0.7862	64.8545	17.3017	0.7509	18.0526	0.0000	70,488.5049	70,488.5049	0.8281	6.0304	72,306.2524
2037	12.4019	100.8289	131.8276	0.6849	64.0683	0.7862	64.8545	17.3017	0.7509	18.0526	0.0000	70,488.5049	70,488.5049	0.8281	6.0304	72,306.2524
2038	12.4019	100.8289	131.8276	0.6849	64.0683	0.7862	64.8545	17.3017	0.7509	18.0526	0.0000	70,488.5049	70,488.5049	0.8281	6.0304	72,306.2524
2039	12.4019	100.8289	131.8276	0.6849	64.0683	0.7862	64.8545	17.3017	0.7509	18.0526	0.0000	70,488.5049	70,488.5049	0.8281	6.0304	72,306.2524
2040	10.1950	99.0457	123.1740	0.6567	64.0685	0.7289	64.7973	17.3017	0.6965	17.9982	0.0000	67,582.6766	67,582.6766	0.6879	5.7853	69,323.9013
2041	10.1950	99.0457	123.1740	0.6567	64.0685	0.7289	64.7973	17.3017	0.6965	17.9982	0.0000	67,582.6766	67,582.6766	0.6879	5.7853	69,323.9013

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Year	lb/day										lb/day					
2042	10.1950	99.0457	123.1740	0.6567	64.0685	0.7289	64.7973	17.3017	0.6965	17.9982	0.0000	67,582.6766	67,582.6766	0.6879	5.7853	69,323.9013
2043	10.1950	99.0457	123.1740	0.6567	64.0685	0.7289	64.7973	17.3017	0.6965	17.9982	0.0000	67,582.6766	67,582.6766	0.6879	5.7853	69,323.9013
2044	10.1950	99.0457	123.1740	0.6567	64.0685	0.7289	64.7973	17.3017	0.6965	17.9982	0.0000	67,582.6766	67,582.6766	0.6879	5.7853	69,323.9013
2045	9.2699	98.7120	119.5480	0.6434	64.0685	0.7118	64.7803	17.3018	0.6807	17.9825	0.0000	66,211.2490	66,211.2490	0.6283	5.6734	67,917.6353
2046	9.2699	98.7120	119.5480	0.6434	64.0685	0.7118	64.7803	17.3018	0.6807	17.9825	0.0000	66,211.2490	66,211.2490	0.6283	5.6734	67,917.6353
2047	9.2699	98.7120	119.5480	0.6434	64.0685	0.7118	64.7803	17.3018	0.6807	17.9825	0.0000	66,211.2490	66,211.2490	0.6283	5.6734	67,917.6353
2048	239.5677	3.6680	17.3928	0.0622	10.1042	0.1167	10.1302	2.6801	0.1166	2.7047	0.0000	6,267.5515	6,267.5515	0.0910	0.1566	6,316.4773
2049	239.5677	1.6628	17.3928	0.0622	10.1042	0.0260	10.1302	2.6801	0.0246	2.7047	0.0000	6,267.5515	6,267.5515	0.0910	0.1566	6,316.4773
Maximum	239.5677	103.3227	141.4279	0.7132	64.0685	0.9257	64.9495	17.3018	0.9256	18.1449	0.0000	73,410.4614	73,410.4614	0.9760	6.2903	75,309.3719

2.1 Overall Construction (Maximum Daily Emission)

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					
2030	2.4790	13.6913	19.1836	0.0476	25.4467	0.4372	25.8840	10.7509	0.4372	11.1880	0.0000	4,513.2425	4,513.2425	0.2201	2.8600e-003	4,519.5972
2031	5.7967	27.5592	39.9602	0.1186	34.8429	0.9257	35.7686	14.4512	0.9256	15.3769	0.0000	11,836.4764	11,836.4764	0.5141	5.7900e-003	11,851.0519
2032	14.5918	103.3227	141.4279	0.7132	64.0682	0.8812	64.9495	17.3017	0.8432	18.1449	0.0000	73,410.4614	73,410.4614	0.9760	6.2903	75,309.3719

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Year	lb/day										lb/day					
2033	13.7945	102.7086	137.7425	0.7027	64.0683	0.8683	64.9366	17.3017	0.8313	18.1329	0.0000	72,320.9351	72,320.9351	0.9233	6.1918	74,189.1665
2034	13.1013	102.1385	134.5603	0.6932	64.0683	0.8558	64.9241	17.3017	0.8196	18.1213	0.0000	71,348.1793	71,348.1793	0.8768	6.1052	73,189.4503
2035	12.4019	100.8289	131.8276	0.6849	64.0683	0.7862	64.8545	17.3017	0.7509	18.0526	0.0000	70,488.5049	70,488.5049	0.8281	6.0304	72,306.2524
2036	12.4019	100.8289	131.8276	0.6849	64.0683	0.7862	64.8545	17.3017	0.7509	18.0526	0.0000	70,488.5049	70,488.5049	0.8281	6.0304	72,306.2524
2037	12.4019	100.8289	131.8276	0.6849	64.0683	0.7862	64.8545	17.3017	0.7509	18.0526	0.0000	70,488.5049	70,488.5049	0.8281	6.0304	72,306.2524
2038	12.4019	100.8289	131.8276	0.6849	64.0683	0.7862	64.8545	17.3017	0.7509	18.0526	0.0000	70,488.5049	70,488.5049	0.8281	6.0304	72,306.2524
2039	12.4019	100.8289	131.8276	0.6849	64.0683	0.7862	64.8545	17.3017	0.7509	18.0526	0.0000	70,488.5049	70,488.5049	0.8281	6.0304	72,306.2524
2040	10.1950	99.0457	123.1740	0.6567	64.0685	0.7289	64.7973	17.3017	0.6965	17.9982	0.0000	67,582.6766	67,582.6766	0.6879	5.7853	69,323.9013
2041	10.1950	99.0457	123.1740	0.6567	64.0685	0.7289	64.7973	17.3017	0.6965	17.9982	0.0000	67,582.6766	67,582.6766	0.6879	5.7853	69,323.9013
2042	10.1950	99.0457	123.1740	0.6567	64.0685	0.7289	64.7973	17.3017	0.6965	17.9982	0.0000	67,582.6766	67,582.6766	0.6879	5.7853	69,323.9013
2043	10.1950	99.0457	123.1740	0.6567	64.0685	0.7289	64.7973	17.3017	0.6965	17.9982	0.0000	67,582.6766	67,582.6766	0.6879	5.7853	69,323.9013
2044	10.1950	99.0457	123.1740	0.6567	64.0685	0.7289	64.7973	17.3017	0.6965	17.9982	0.0000	67,582.6766	67,582.6766	0.6879	5.7853	69,323.9013
2045	9.2699	98.7120	119.5480	0.6434	64.0685	0.7118	64.7803	17.3018	0.6807	17.9825	0.0000	66,211.2490	66,211.2490	0.6283	5.6734	67,917.6353
2046	9.2699	98.7120	119.5480	0.6434	64.0685	0.7118	64.7803	17.3018	0.6807	17.9825	0.0000	66,211.2490	66,211.2490	0.6283	5.6734	67,917.6353
2047	9.2699	98.7120	119.5480	0.6434	64.0685	0.7118	64.7803	17.3018	0.6807	17.9825	0.0000	66,211.2490	66,211.2490	0.6283	5.6734	67,917.6353
2048	239.5677	3.6680	17.3928	0.0622	10.1042	0.1167	10.1302	2.6801	0.1166	2.7047	0.0000	6,267.5515	6,267.5515	0.0910	0.1566	6,316.4773
2049	239.5677	1.6628	17.3928	0.0622	10.1042	0.0260	10.1302	2.6801	0.0246	2.7047	0.0000	6,267.5515	6,267.5515	0.0910	0.1566	6,316.4773
Maximum	239.5677	103.3227	141.4279	0.7132	64.0685	0.9257	64.9495	17.3018	0.9256	18.1449	0.0000	73,410.4614	73,410.4614	0.9760	6.2903	75,309.3719

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585
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
Total	252.9527	5.2321	453.5365	0.0241	0.0000	2.5239	2.5239	0.0000	2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585

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	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585
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
Total	252.9527	5.2321	453.5365	0.0241	0.0000	2.5239	2.5239	0.0000	2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1/1/2030	12/16/2030	5	250	
2	Site Preparation	Site Preparation	12/17/2030	7/14/2031	5	150	
3	Grading	Grading	7/14/2031	10/27/2032	5	338	
4	Building Construction	Building Construction	10/28/2032	10/9/2047	5	3900	
5	Paving	Paving	10/10/2047	10/28/2048	5	275	
6	Architectural Coating	Architectural Coating	10/29/2048	11/17/2049	5	275	

Acres of Grading (Site Preparation Phase): 1023

Acres of Grading (Grading Phase): 1023

Acres of Paving: 0

Residential Indoor: 17,147,700; Residential Outdoor: 5,715,900; Non-Residential Indoor: 4,051,462; Non-Residential Outdoor: 1,350,487; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	6,152.00	1,995.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1,230.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2030

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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
Total	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000

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	0.0325	0.0194	0.2668	8.5000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331		86.2407	86.2407	2.1200e-003	2.3800e-003	87.0031
Total	0.0325	0.0194	0.2668	8.5000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331		86.2407	86.2407	2.1200e-003	2.3800e-003	87.0031

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2030

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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
Total	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000

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	0.0325	0.0194	0.2668	8.5000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331		86.2407	86.2407	2.1200e-003	2.3800e-003	87.0031
Total	0.0325	0.0194	0.2668	8.5000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331		86.2407	86.2407	2.1200e-003	2.3800e-003	87.0031

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2030

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					25.2989	0.0000	25.2989	10.7116	0.0000	10.7116			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	25.2989	0.4367	25.7355	10.7116	0.4367	11.1483		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037
Total	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2030

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					25.2989	0.0000	25.2989	10.7116	0.0000	10.7116			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	25.2989	0.4367	25.7355	10.7116	0.4367	11.1483	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037
Total	0.0391	0.0233	0.3202	1.0200e-003	0.1479	5.6000e-004	0.1484	0.0392	5.2000e-004	0.0397		103.4888	103.4888	2.5400e-003	2.8600e-003	104.4037

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2031

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					25.2989	0.0000	25.2989	10.7116	0.0000	10.7116			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	25.2989	0.4367	25.7355	10.7116	0.4367	11.1483		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0360	0.0214	0.3053	1.0000e-003	0.1479	5.3000e-004	0.1484	0.0392	4.8000e-004	0.0397		101.1857	101.1857	2.3400e-003	2.7400e-003	102.0610
Total	0.0360	0.0214	0.3053	1.0000e-003	0.1479	5.3000e-004	0.1484	0.0392	4.8000e-004	0.0397		101.1857	101.1857	2.3400e-003	2.7400e-003	102.0610

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2031

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					25.2989	0.0000	25.2989	10.7116	0.0000	10.7116			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	25.2989	0.4367	25.7355	10.7116	0.4367	11.1483	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0360	0.0214	0.3053	1.0000e-003	0.1479	5.3000e-004	0.1484	0.0392	4.8000e-004	0.0397		101.1857	101.1857	2.3400e-003	2.7400e-003	102.0610
Total	0.0360	0.0214	0.3053	1.0000e-003	0.1479	5.3000e-004	0.1484	0.0392	4.8000e-004	0.0397		101.1857	101.1857	2.3400e-003	2.7400e-003	102.0610

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2031

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					9.2318	0.0000	9.2318	3.6568	0.0000	3.6568			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	9.2318	0.4879	9.7198	3.6568	0.4879	4.1447		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011
Total	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2031

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					9.2318	0.0000	9.2318	3.6568	0.0000	3.6568			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	9.2318	0.4879	9.7198	3.6568	0.4879	4.1447	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011
Total	0.0400	0.0237	0.3392	1.1100e-003	0.1643	5.9000e-004	0.1649	0.0436	5.4000e-004	0.0441		112.4285	112.4285	2.6000e-003	3.0500e-003	113.4011

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2032

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					9.2318	0.0000	9.2318	3.6568	0.0000	3.6568			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	9.2318	0.4879	9.7198	3.6568	0.4879	4.1447		7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0372	0.0220	0.3253	1.0900e-003	0.1643	5.5000e-004	0.1648	0.0436	5.0000e-004	0.0441		110.1536	110.1536	2.4100e-003	2.9400e-003	111.0905
Total	0.0372	0.0220	0.3253	1.0900e-003	0.1643	5.5000e-004	0.1648	0.0436	5.0000e-004	0.0441		110.1536	110.1536	2.4100e-003	2.9400e-003	111.0905

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2032

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					9.2318	0.0000	9.2318	3.6568	0.0000	3.6568			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	9.2318	0.4879	9.7198	3.6568	0.4879	4.1447	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963

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	0.0372	0.0220	0.3253	1.0900e-003	0.1643	5.5000e-004	0.1648	0.0436	5.0000e-004	0.0441		110.1536	110.1536	2.4100e-003	2.9400e-003	111.0905
Total	0.0372	0.0220	0.3253	1.0900e-003	0.1643	5.5000e-004	0.1648	0.0436	5.0000e-004	0.0441		110.1536	110.1536	2.4100e-003	2.9400e-003	111.0905

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.8554	88.6200	25.2059	0.3471	13.5310	0.5644	14.0955	3.8968	0.5399	4.4367		36,629.6547	36,629.6547	0.1199	5.3853	38,237.4796
Worker	11.4273	6.7681	100.0651	0.3352	50.5372	0.1686	50.7059	13.4048	0.1552	13.5600		33,883.2600	33,883.2600	0.7399	0.9050	34,171.4394
Total	13.2827	95.3880	125.2709	0.6823	64.0682	0.7331	64.8013	17.3017	0.6951	17.9967		70,512.9147	70,512.9147	0.8598	6.2903	72,408.9191

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2032

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.8554	88.6200	25.2059	0.3471	13.5310	0.5644	14.0955	3.8968	0.5399	4.4367		36,629.6547	36,629.6547	0.1199	5.3853	38,237.4796
Worker	11.4273	6.7681	100.0651	0.3352	50.5372	0.1686	50.7059	13.4048	0.1552	13.5600		33,883.2600	33,883.2600	0.7399	0.9050	34,171.4394
Total	13.2827	95.3880	125.2709	0.6823	64.0682	0.7331	64.8013	17.3017	0.6951	17.9967		70,512.9147	70,512.9147	0.8598	6.2903	72,408.9191

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.8424	88.4425	25.1679	0.3426	13.5311	0.5621	14.0931	3.8968	0.5377	4.4345		36,161.4760	36,161.4760	0.1194	5.3128	37,747.6849
Worker	10.6430	6.3314	96.4176	0.3291	50.5372	0.1581	50.6953	13.4048	0.1455	13.5503		33,261.9123	33,261.9123	0.6876	0.8790	33,541.0288
Total	12.4854	94.7739	121.5855	0.6717	64.0683	0.7202	64.7884	17.3017	0.6831	17.9848		69,423.3883	69,423.3883	0.8070	6.1918	71,288.7136

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2033

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.8424	88.4425	25.1679	0.3426	13.5311	0.5621	14.0931	3.8968	0.5377	4.4345		36,161.4760	36,161.4760	0.1194	5.3128	37,747.6849
Worker	10.6430	6.3314	96.4176	0.3291	50.5372	0.1581	50.6953	13.4048	0.1455	13.5503		33,261.9123	33,261.9123	0.6876	0.8790	33,541.0288
Total	12.4854	94.7739	121.5855	0.6717	64.0683	0.7202	64.7884	17.3017	0.6831	17.9848		69,423.3883	69,423.3883	0.8070	6.1918	71,288.7136

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2034

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.8319	88.2242	25.1551	0.3386	13.5311	0.5593	14.0904	3.8968	0.5350	4.4319		35,738.1690	35,738.1690	0.1191	5.2473	37,304.8382
Worker	9.9603	5.9797	93.2483	0.3236	50.5372	0.1483	50.6856	13.4048	0.1365	13.5413		32,712.4635	32,712.4635	0.6414	0.8579	32,984.1593
Total	11.7922	94.2038	118.4034	0.6623	64.0683	0.7076	64.7759	17.3017	0.6715	17.9732		68,450.6325	68,450.6325	0.7605	6.1052	70,288.9974

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2034

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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

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	1.8319	88.2242	25.1551	0.3386	13.5311	0.5593	14.0904	3.8968	0.5350	4.4319		35,738.1690	35,738.1690	0.1191	5.2473	37,304.8382
Worker	9.9603	5.9797	93.2483	0.3236	50.5372	0.1483	50.6856	13.4048	0.1365	13.5413		32,712.4635	32,712.4635	0.6414	0.8579	32,984.1593
Total	11.7922	94.2038	118.4034	0.6623	64.0683	0.7076	64.7759	17.3017	0.6715	17.9732		68,450.6325	68,450.6325	0.7605	6.1052	70,288.9974

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2035

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.8228	87.9630	25.1550	0.3351	13.5311	0.5563	14.0874	3.8969	0.5322	4.4290		35,361.3439	35,361.3439	0.1189	5.1891	36,910.6554
Worker	9.3624	5.7046	90.5549	0.3188	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		32,229.6143	32,229.6143	0.6013	0.8413	32,495.3522
Total	11.1851	93.6676	115.7099	0.6539	64.0683	0.6958	64.7641	17.3017	0.6605	17.9622		67,590.9582	67,590.9582	0.7202	6.0304	69,406.0076

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2035

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.8228	87.9630	25.1550	0.3351	13.5311	0.5563	14.0874	3.8969	0.5322	4.4290		35,361.3439	35,361.3439	0.1189	5.1891	36,910.6554
Worker	9.3624	5.7046	90.5549	0.3188	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		32,229.6143	32,229.6143	0.6013	0.8413	32,495.3522
Total	11.1851	93.6676	115.7099	0.6539	64.0683	0.6958	64.7641	17.3017	0.6605	17.9622		67,590.9582	67,590.9582	0.7202	6.0304	69,406.0076

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2036

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.8228	87.9630	25.1550	0.3351	13.5311	0.5563	14.0874	3.8969	0.5322	4.4290		35,361.3439	35,361.3439	0.1189	5.1891	36,910.6554
Worker	9.3624	5.7046	90.5549	0.3188	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		32,229.6143	32,229.6143	0.6013	0.8413	32,495.3522
Total	11.1851	93.6676	115.7099	0.6539	64.0683	0.6958	64.7641	17.3017	0.6605	17.9622		67,590.9582	67,590.9582	0.7202	6.0304	69,406.0076

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2036

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.8228	87.9630	25.1550	0.3351	13.5311	0.5563	14.0874	3.8969	0.5322	4.4290		35,361.3439	35,361.3439	0.1189	5.1891	36,910.6554
Worker	9.3624	5.7046	90.5549	0.3188	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		32,229.6143	32,229.6143	0.6013	0.8413	32,495.3522
Total	11.1851	93.6676	115.7099	0.6539	64.0683	0.6958	64.7641	17.3017	0.6605	17.9622		67,590.9582	67,590.9582	0.7202	6.0304	69,406.0076

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2037

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.8228	87.9630	25.1550	0.3351	13.5311	0.5563	14.0874	3.8969	0.5322	4.4290		35,361.3439	35,361.3439	0.1189	5.1891	36,910.6554
Worker	9.3624	5.7046	90.5549	0.3188	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		32,229.6143	32,229.6143	0.6013	0.8413	32,495.3522
Total	11.1851	93.6676	115.7099	0.6539	64.0683	0.6958	64.7641	17.3017	0.6605	17.9622		67,590.9582	67,590.9582	0.7202	6.0304	69,406.0076

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2037

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.8228	87.9630	25.1550	0.3351	13.5311	0.5563	14.0874	3.8969	0.5322	4.4290		35,361.3439	35,361.3439	0.1189	5.1891	36,910.6554
Worker	9.3624	5.7046	90.5549	0.3188	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		32,229.6143	32,229.6143	0.6013	0.8413	32,495.3522
Total	11.1851	93.6676	115.7099	0.6539	64.0683	0.6958	64.7641	17.3017	0.6605	17.9622		67,590.9582	67,590.9582	0.7202	6.0304	69,406.0076

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2038

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.8228	87.9630	25.1550	0.3351	13.5311	0.5563	14.0874	3.8969	0.5322	4.4290		35,361.3439	35,361.3439	0.1189	5.1891	36,910.6554
Worker	9.3624	5.7046	90.5549	0.3188	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		32,229.6143	32,229.6143	0.6013	0.8413	32,495.3522
Total	11.1851	93.6676	115.7099	0.6539	64.0683	0.6958	64.7641	17.3017	0.6605	17.9622		67,590.9582	67,590.9582	0.7202	6.0304	69,406.0076

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2038

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.8228	87.9630	25.1550	0.3351	13.5311	0.5563	14.0874	3.8969	0.5322	4.4290		35,361.3439	35,361.3439	0.1189	5.1891	36,910.6554
Worker	9.3624	5.7046	90.5549	0.3188	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		32,229.6143	32,229.6143	0.6013	0.8413	32,495.3522
Total	11.1851	93.6676	115.7099	0.6539	64.0683	0.6958	64.7641	17.3017	0.6605	17.9622		67,590.9582	67,590.9582	0.7202	6.0304	69,406.0076

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2039

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.8228	87.9630	25.1550	0.3351	13.5311	0.5563	14.0874	3.8969	0.5322	4.4290		35,361.3439	35,361.3439	0.1189	5.1891	36,910.6554
Worker	9.3624	5.7046	90.5549	0.3188	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		32,229.6143	32,229.6143	0.6013	0.8413	32,495.3522
Total	11.1851	93.6676	115.7099	0.6539	64.0683	0.6958	64.7641	17.3017	0.6605	17.9622		67,590.9582	67,590.9582	0.7202	6.0304	69,406.0076

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2039

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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

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	1.8228	87.9630	25.1550	0.3351	13.5311	0.5563	14.0874	3.8969	0.5322	4.4290		35,361.3439	35,361.3439	0.1189	5.1891	36,910.6554
Worker	9.3624	5.7046	90.5549	0.3188	50.5372	0.1395	50.6767	13.4048	0.1283	13.5332		32,229.6143	32,229.6143	0.6013	0.8413	32,495.3522
Total	11.1851	93.6676	115.7099	0.6539	64.0683	0.6958	64.7641	17.3017	0.6605	17.9622		67,590.9582	67,590.9582	0.7202	6.0304	69,406.0076

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2040

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8090	87.2453	25.3042	0.3227	13.5312	0.5473	14.0785	3.8969	0.5235	4.4204		34,054.53 24	34,054.53 24	0.1192	4.9897	35,544.45 32
Worker	7.1890	4.9102	81.7514	0.3030	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		30,630.59 71	30,630.59 71	0.4646	0.7956	30,879.29 78
Total	8.9980	92.1554	107.0556	0.6257	64.0685	0.6551	64.7236	17.3017	0.6228	17.9245		64,685.12 95	64,685.12 95	0.5838	5.7853	66,423.75 09

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2040

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8090	87.2453	25.3042	0.3227	13.5312	0.5473	14.0785	3.8969	0.5235	4.4204		34,054.53 24	34,054.53 24	0.1192	4.9897	35,544.45 32
Worker	7.1890	4.9102	81.7514	0.3030	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		30,630.59 71	30,630.59 71	0.4646	0.7956	30,879.29 78
Total	8.9980	92.1554	107.0556	0.6257	64.0685	0.6551	64.7236	17.3017	0.6228	17.9245		64,685.12 95	64,685.12 95	0.5838	5.7853	66,423.75 09

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2041

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8090	87.2453	25.3042	0.3227	13.5312	0.5473	14.0785	3.8969	0.5235	4.4204		34,054.53 24	34,054.53 24	0.1192	4.9897	35,544.45 32
Worker	7.1890	4.9102	81.7514	0.3030	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		30,630.59 71	30,630.59 71	0.4646	0.7956	30,879.29 78
Total	8.9980	92.1554	107.0556	0.6257	64.0685	0.6551	64.7236	17.3017	0.6228	17.9245		64,685.12 95	64,685.12 95	0.5838	5.7853	66,423.75 09

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2041

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8090	87.2453	25.3042	0.3227	13.5312	0.5473	14.0785	3.8969	0.5235	4.4204		34,054.53 24	34,054.53 24	0.1192	4.9897	35,544.45 32
Worker	7.1890	4.9102	81.7514	0.3030	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		30,630.59 71	30,630.59 71	0.4646	0.7956	30,879.29 78
Total	8.9980	92.1554	107.0556	0.6257	64.0685	0.6551	64.7236	17.3017	0.6228	17.9245		64,685.12 95	64,685.12 95	0.5838	5.7853	66,423.75 09

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2042

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8090	87.2453	25.3042	0.3227	13.5312	0.5473	14.0785	3.8969	0.5235	4.4204		34,054.53 24	34,054.53 24	0.1192	4.9897	35,544.45 32
Worker	7.1890	4.9102	81.7514	0.3030	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		30,630.59 71	30,630.59 71	0.4646	0.7956	30,879.29 78
Total	8.9980	92.1554	107.0556	0.6257	64.0685	0.6551	64.7236	17.3017	0.6228	17.9245		64,685.12 95	64,685.12 95	0.5838	5.7853	66,423.75 09

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2042

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8090	87.2453	25.3042	0.3227	13.5312	0.5473	14.0785	3.8969	0.5235	4.4204		34,054.53 24	34,054.53 24	0.1192	4.9897	35,544.45 32
Worker	7.1890	4.9102	81.7514	0.3030	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		30,630.59 71	30,630.59 71	0.4646	0.7956	30,879.29 78
Total	8.9980	92.1554	107.0556	0.6257	64.0685	0.6551	64.7236	17.3017	0.6228	17.9245		64,685.12 95	64,685.12 95	0.5838	5.7853	66,423.75 09

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2043

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8090	87.2453	25.3042	0.3227	13.5312	0.5473	14.0785	3.8969	0.5235	4.4204		34,054.53 24	34,054.53 24	0.1192	4.9897	35,544.45 32
Worker	7.1890	4.9102	81.7514	0.3030	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		30,630.59 71	30,630.59 71	0.4646	0.7956	30,879.29 78
Total	8.9980	92.1554	107.0556	0.6257	64.0685	0.6551	64.7236	17.3017	0.6228	17.9245		64,685.12 95	64,685.12 95	0.5838	5.7853	66,423.75 09

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2043

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8090	87.2453	25.3042	0.3227	13.5312	0.5473	14.0785	3.8969	0.5235	4.4204		34,054.53 24	34,054.53 24	0.1192	4.9897	35,544.45 32
Worker	7.1890	4.9102	81.7514	0.3030	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		30,630.59 71	30,630.59 71	0.4646	0.7956	30,879.29 78
Total	8.9980	92.1554	107.0556	0.6257	64.0685	0.6551	64.7236	17.3017	0.6228	17.9245		64,685.12 95	64,685.12 95	0.5838	5.7853	66,423.75 09

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2044

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8090	87.2453	25.3042	0.3227	13.5312	0.5473	14.0785	3.8969	0.5235	4.4204		34,054.53 24	34,054.53 24	0.1192	4.9897	35,544.45 32
Worker	7.1890	4.9102	81.7514	0.3030	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		30,630.59 71	30,630.59 71	0.4646	0.7956	30,879.29 78
Total	8.9980	92.1554	107.0556	0.6257	64.0685	0.6551	64.7236	17.3017	0.6228	17.9245		64,685.12 95	64,685.12 95	0.5838	5.7853	66,423.75 09

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2044

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8090	87.2453	25.3042	0.3227	13.5312	0.5473	14.0785	3.8969	0.5235	4.4204		34,054.53 24	34,054.53 24	0.1192	4.9897	35,544.45 32
Worker	7.1890	4.9102	81.7514	0.3030	50.5372	0.1079	50.6451	13.4048	0.0993	13.5041		30,630.59 71	30,630.59 71	0.4646	0.7956	30,879.29 78
Total	8.9980	92.1554	107.0556	0.6257	64.0685	0.6551	64.7236	17.3017	0.6228	17.9245		64,685.12 95	64,685.12 95	0.5838	5.7853	66,423.75 09

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2045

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8142	87.1414	25.4019	0.3163	13.5313	0.5450	14.0763	3.8969	0.5213	4.4182		33,373.45 10	33,373.45 10	0.1187	4.8904	34,833.76 43
Worker	6.2587	4.6803	78.0276	0.2962	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		29,940.25 09	29,940.25 09	0.4054	0.7830	30,183.72 07
Total	8.0729	91.8217	103.4295	0.6125	64.0685	0.6381	64.7066	17.3018	0.6070	17.9087		63,313.70 19	63,313.70 19	0.5242	5.6734	65,017.48 50

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2045

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8142	87.1414	25.4019	0.3163	13.5313	0.5450	14.0763	3.8969	0.5213	4.4182		33,373.45 10	33,373.45 10	0.1187	4.8904	34,833.76 43
Worker	6.2587	4.6803	78.0276	0.2962	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		29,940.25 09	29,940.25 09	0.4054	0.7830	30,183.72 07
Total	8.0729	91.8217	103.4295	0.6125	64.0685	0.6381	64.7066	17.3018	0.6070	17.9087		63,313.70 19	63,313.70 19	0.5242	5.6734	65,017.48 50

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2046

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8142	87.1414	25.4019	0.3163	13.5313	0.5450	14.0763	3.8969	0.5213	4.4182		33,373.45 10	33,373.45 10	0.1187	4.8904	34,833.76 43
Worker	6.2587	4.6803	78.0276	0.2962	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		29,940.25 09	29,940.25 09	0.4054	0.7830	30,183.72 07
Total	8.0729	91.8217	103.4295	0.6125	64.0685	0.6381	64.7066	17.3018	0.6070	17.9087		63,313.70 19	63,313.70 19	0.5242	5.6734	65,017.48 50

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2046

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8142	87.1414	25.4019	0.3163	13.5313	0.5450	14.0763	3.8969	0.5213	4.4182		33,373.45 10	33,373.45 10	0.1187	4.8904	34,833.76 43
Worker	6.2587	4.6803	78.0276	0.2962	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		29,940.25 09	29,940.25 09	0.4054	0.7830	30,183.72 07
Total	8.0729	91.8217	103.4295	0.6125	64.0685	0.6381	64.7066	17.3018	0.6070	17.9087		63,313.70 19	63,313.70 19	0.5242	5.6734	65,017.48 50

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2047

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8142	87.1414	25.4019	0.3163	13.5313	0.5450	14.0763	3.8969	0.5213	4.4182		33,373.45 10	33,373.45 10	0.1187	4.8904	34,833.76 43
Worker	6.2587	4.6803	78.0276	0.2962	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		29,940.25 09	29,940.25 09	0.4054	0.7830	30,183.72 07
Total	8.0729	91.8217	103.4295	0.6125	64.0685	0.6381	64.7066	17.3018	0.6070	17.9087		63,313.70 19	63,313.70 19	0.5242	5.6734	65,017.48 50

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2047

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.547 1	2,897.547 1	0.1041		2,900.150 3

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	1.8142	87.1414	25.4019	0.3163	13.5313	0.5450	14.0763	3.8969	0.5213	4.4182		33,373.45 10	33,373.45 10	0.1187	4.8904	34,833.76 43
Worker	6.2587	4.6803	78.0276	0.2962	50.5372	0.0931	50.6303	13.4048	0.0857	13.4905		29,940.25 09	29,940.25 09	0.4054	0.7830	30,183.72 07
Total	8.0729	91.8217	103.4295	0.6125	64.0685	0.6381	64.7066	17.3018	0.6070	17.9087		63,313.70 19	63,313.70 19	0.5242	5.6734	65,017.48 50

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2047

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0153	0.0114	0.1903	7.2000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		73.0013	73.0013	9.9000e-004	1.9100e-003	73.5949
Total	0.0153	0.0114	0.1903	7.2000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		73.0013	73.0013	9.9000e-004	1.9100e-003	73.5949

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2047

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0153	0.0114	0.1903	7.2000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		73.0013	73.0013	9.9000e-004	1.9100e-003	73.5949
Total	0.0153	0.0114	0.1903	7.2000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		73.0013	73.0013	9.9000e-004	1.9100e-003	73.5949

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2048

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0153	0.0114	0.1903	7.2000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		73.0013	73.0013	9.9000e-004	1.9100e-003	73.5949
Total	0.0153	0.0114	0.1903	7.2000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		73.0013	73.0013	9.9000e-004	1.9100e-003	73.5949

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2048

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0153	0.0114	0.1903	7.2000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		73.0013	73.0013	9.9000e-004	1.9100e-003	73.5949
Total	0.0153	0.0114	0.1903	7.2000e-004	0.1232	2.3000e-004	0.1235	0.0327	2.1000e-004	0.0329		73.0013	73.0013	9.9000e-004	1.9100e-003	73.5949

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2048

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	238.2015					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	238.3164	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

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	1.2513	0.9358	15.6005	0.0592	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		5,986.1035	5,986.1035	0.0811	0.1566	6,034.7816
Total	1.2513	0.9358	15.6005	0.0592	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		5,986.1035	5,986.1035	0.0811	0.1566	6,034.7816

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2048

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	238.2015					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	238.3164	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

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	1.2513	0.9358	15.6005	0.0592	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		5,986.1035	5,986.1035	0.0811	0.1566	6,034.7816
Total	1.2513	0.9358	15.6005	0.0592	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		5,986.1035	5,986.1035	0.0811	0.1566	6,034.7816

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2049

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	238.2015					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	238.3164	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

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	1.2513	0.9358	15.6005	0.0592	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		5,986.1035	5,986.1035	0.0811	0.1566	6,034.7816
Total	1.2513	0.9358	15.6005	0.0592	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		5,986.1035	5,986.1035	0.0811	0.1566	6,034.7816

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2049

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	238.2015					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	238.3164	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

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	1.2513	0.9358	15.6005	0.0592	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		5,986.1035	5,986.1035	0.0811	0.1566	6,034.7816
Total	1.2513	0.9358	15.6005	0.0592	10.1042	0.0186	10.1228	2.6801	0.0171	2.6972		5,986.1035	5,986.1035	0.0811	0.1566	6,034.7816

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Convenience Market (24 hour)	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
University/College (4yr)	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Convenience Market (24 hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
University/College (4yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
City Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Condo/Townhouse	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Convenience Market (24 hour)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Office Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Regional Shopping Center	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Single Family Housing	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
University/College (4yr)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Convenience Market (24 hour)	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
Office Park	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
Regional Shopping Center	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
Single Family Housing	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
University/College (4yr)	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

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Convenience Market (24 hour)	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
Office Park	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
Regional Shopping Center	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
Single Family Housing	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
University/College (4yr)	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

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585
Unmitigated	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	239.3190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	13.6336	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239		820.6330	820.6330	0.7850		840.2585
Total	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	239.3190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	13.6336	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239		820.6330	820.6330	0.7850		840.2585
Total	252.9527	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239	0.0000	820.6330	820.6330	0.7850	0.0000	840.2585

7.0 Water Detail

7.1 Mitigation Measures Water

UCP Construction - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

Boilers

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

Equipment Type	Number
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11.0 Vegetation

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_Operations
Merced County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	550.00	1000sqft	12.63	550,000.00	0
Elementary School	950.00	Student	20.00	871,200.00	0
Junior High School	300.00	Student	0.81	35,268.51	0
City Park	5.30	Acre	5.30	230,868.00	0
City Park	8.00	Acre	8.00	348,480.00	0
City Park	5.80	Acre	5.80	252,648.00	0
City Park	7.30	Acre	7.30	317,988.00	0
City Park	1.40	Acre	1.40	60,984.00	0
City Park	4.50	Acre	4.50	196,020.00	0
City Park	15.50	Acre	15.50	675,180.00	0
City Park	4.80	Acre	4.80	209,088.00	0
City Park	45.60	Acre	45.60	1,986,336.00	0
Apartments High Rise	696.00	Dwelling Unit	24.79	696,000.00	1991
Apartments High Rise	456.00	Dwelling Unit	16.24	456,000.00	1304
Apartments High Rise	108.00	Dwelling Unit	3.00	75,600.00	309
Apartments High Rise	336.00	Dwelling Unit	11.97	336,000.00	961
Condo/Townhouse	364.00	Dwelling Unit	22.75	436,800.00	1041
Condo/Townhouse	140.00	Dwelling Unit	8.61	168,000.00	400
Single Family Housing	43.00	Dwelling Unit	17.14	139,750.00	123
Single Family Housing	66.00	Dwelling Unit	10.50	125,400.00	189
Single Family Housing	36.00	Dwelling Unit	4.13	43,200.00	103
Single Family Housing	226.00	Dwelling Unit	37.83	339,000.00	646

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Single Family Housing	64.00	Dwelling Unit	7.33	76,800.00	183
Single Family Housing	141.00	Dwelling Unit	23.60	211,500.00	403
Single Family Housing	24.00	Dwelling Unit	2.75	28,800.00	69
Single Family Housing	186.00	Dwelling Unit	43.76	511,500.00	532
Single Family Housing	131.00	Dwelling Unit	15.00	18,012.00	375
Single Family Housing	105.00	Dwelling Unit	41.86	341,250.00	300
Single Family Housing	171.00	Dwelling Unit	40.24	470,250.00	489
Single Family Housing	326.00	Dwelling Unit	54.57	489,000.00	932
Single Family Housing	13.00	Dwelling Unit	2.07	24,700.00	37
Single Family Housing	225.00	Dwelling Unit	25.78	270,000.00	644
Convenience Market with Gas Pumps	50.00	1000sqft	1.15	50,000.00	0
Free-Standing Discount store	32.50	1000sqft	0.75	32,500.00	0
Regional Shopping Center	175.00	1000sqft	4.02	175,000.00	0
Regional Shopping Center	54.50	1000sqft	1.25	54,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	390.22	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEmod 2035 forecast, anticipated first day of operations is 2039, 2035 based on CalEEmod parameters

Land Use - Acreage and sq footage taken from project description and modeling data

Construction Phase - Operations modeling only

Off-road Equipment - defaults

Trips and VMT -

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading - ...

Architectural Coating - Sq ft per phase
 SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VST VMT = 53,226 Daily
 19,427,490 Yearly VMT

Woodstoves - No fireplaces or woodstoves installed

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - All residential units NG free and get 100% of energy from solar

Water And Wastewater - From water and wastewater study: 1.2 million gallons per day = 438 million gallons/year
 Percentage per land use type for total 438 mgpd from CalEEMod defaults

Solid Waste -

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - SJVAPCD VOC limit

Energy Mitigation - all energy star appliances

Water Mitigation - Installation of low-flow faucets

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	50
tblAreaCoating	Area_EF_Residential_Exterior	150	50
tblAreaCoating	Area_EF_Residential_Interior	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	360.00	0.00
tblEnergyUse	LightingElect	741.44	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	877.80	0.00
tblFireplaces	NumberGas	277.20	0.00
tblFireplaces	NumberGas	966.35	0.00
tblFireplaces	NumberNoFireplace	718.20	0.00
tblFireplaces	NumberNoFireplace	226.80	0.00
tblFireplaces	NumberNoFireplace	790.65	0.00
tblGrading	AcresOfGrading	0.00	540.00
tblLandUse	LandUseSquareFeet	79,423.20	871,200.00
tblLandUse	LandUseSquareFeet	108,000.00	75,600.00
tblLandUse	LandUseSquareFeet	140,000.00	168,000.00
tblLandUse	LandUseSquareFeet	364,000.00	436,800.00
tblLandUse	LandUseSquareFeet	189,000.00	341,250.00
tblLandUse	LandUseSquareFeet	23,400.00	24,700.00
tblLandUse	LandUseSquareFeet	235,800.00	18,012.00
tblLandUse	LandUseSquareFeet	253,800.00	211,500.00

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	307,800.00	470,250.00
tblLandUse	LandUseSquareFeet	334,800.00	511,500.00
tblLandUse	LandUseSquareFeet	405,000.00	270,000.00
tblLandUse	LandUseSquareFeet	406,800.00	339,000.00
tblLandUse	LandUseSquareFeet	43,200.00	28,800.00
tblLandUse	LandUseSquareFeet	586,800.00	489,000.00
tblLandUse	LandUseSquareFeet	64,800.00	43,200.00
tblLandUse	LandUseSquareFeet	77,400.00	139,750.00
tblLandUse	LandUseSquareFeet	115,200.00	76,800.00
tblLandUse	LandUseSquareFeet	118,800.00	125,400.00
tblLandUse	LotAcreage	1.82	20.00
tblLandUse	LotAcreage	1.74	3.00
tblLandUse	LotAcreage	5.42	11.97
tblLandUse	LotAcreage	7.35	16.24
tblLandUse	LotAcreage	11.23	24.79
tblLandUse	LotAcreage	8.75	8.61
tblLandUse	LotAcreage	34.09	41.86
tblLandUse	LotAcreage	4.22	2.07
tblLandUse	LotAcreage	42.53	15.00
tblLandUse	LotAcreage	45.78	23.60
tblLandUse	LotAcreage	55.52	40.24
tblLandUse	LotAcreage	60.39	43.76
tblLandUse	LotAcreage	73.05	25.78
tblLandUse	LotAcreage	73.38	37.83
tblLandUse	LotAcreage	7.79	2.75
tblLandUse	LotAcreage	105.84	54.57
tblLandUse	LotAcreage	11.69	4.13
tblLandUse	LotAcreage	13.96	17.14
tblLandUse	LotAcreage	20.78	7.33

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LotAcreage	21.43	10.50
tblProjectCharacteristics	CO2IntensityFactor	203.98	390.22
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	1.24
tblVehicleTrips	HO_TTP	35.70	0.00
tblVehicleTrips	HS_TL	7.30	1.24
tblVehicleTrips	HS_TTP	17.40	0.00
tblVehicleTrips	HW_TL	10.80	1.24
tblVehicleTrips	HW_TTP	46.90	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	85.30
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	70.76	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	85.30
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	60.21	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	7.32	85.40
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	53.12	0.00
tblVehicleTrips	WD_TR	2.13	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	103,985,824.89	62,178,982.00
tblWater	IndoorWaterUseRate	32,837,628.91	19,635,468.00
tblWater	IndoorWaterUseRate	3,703,626.07	2,214,606.00
tblWater	IndoorWaterUseRate	2,303,028.00	1,377,110.00
tblWater	IndoorWaterUseRate	2,407,356.95	1,439,494.00
tblWater	IndoorWaterUseRate	727,272.00	434,877.00
tblWater	IndoorWaterUseRate	97,753,561.40	58,452,361.00
tblWater	IndoorWaterUseRate	16,999,643.68	10,165,045.00
tblWater	IndoorWaterUseRate	114,475,623.02	68,451,423.00
tblWater	OutdoorWaterUseRate	65,556,280.91	39,199,793.00
tblWater	OutdoorWaterUseRate	117,003,468.54	69,962,965.00
tblWater	OutdoorWaterUseRate	20,701,983.45	12,378,882.00
tblWater	OutdoorWaterUseRate	2,269,964.37	1,357,340.00
tblWater	OutdoorWaterUseRate	5,922,072.00	3,541,140.00
tblWater	OutdoorWaterUseRate	1,475,476.84	882,271.00
tblWater	OutdoorWaterUseRate	1,870,128.00	1,118,255.00
tblWater	OutdoorWaterUseRate	59,913,473.11	35,825,641.00
tblWater	OutdoorWaterUseRate	10,419,136.45	6,230,189.00
tblWater	OutdoorWaterUseRate	72,169,414.51	43,154,158.00
tblWoodstoves	NumberCatalytic	56.00	0.00
tblWoodstoves	NumberCatalytic	31.36	0.00

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberCatalytic	326.56	0.00
tblWoodstoves	NumberNoncatalytic	56.00	0.00
tblWoodstoves	NumberNoncatalytic	31.36	0.00
tblWoodstoves	NumberNoncatalytic	326.56	0.00

2.0 Emissions Summary

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	30.3902	0.3294	28.5582	1.5100e-003		0.1589	0.1589		0.1589	0.1589	0.0000	46.8203	46.8203	0.0446	0.0000	47.9361
Energy	0.2064	1.8760	1.5759	0.0113		0.1426	0.1426		0.1426	0.1426	0.0000	4,667.8462	4,667.8462	0.2612	0.0644	4,693.5537
Mobile	7.9760	13.7682	52.2965	0.0752	7.2915	0.0724	7.3638	1.9530	0.0680	2.0210	0.0000	7,002.6602	7,002.6602	0.6582	0.7207	7,233.8816
Waste						0.0000	0.0000		0.0000	0.0000	822.9436	0.0000	822.9436	48.6346	0.0000	2,038.8080
Water						0.0000	0.0000		0.0000	0.0000	71.1757	347.2281	418.4038	7.3398	0.1762	654.3985
Total	38.5726	15.9736	82.4306	0.0880	7.2915	0.3739	7.6653	1.9530	0.3695	2.3225	894.1193	12,064.5547	12,958.6740	56.9384	0.9612	14,668.5779

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	30.3902	0.3294	28.5582	1.5100e-003		0.1589	0.1589		0.1589	0.1589	0.0000	46.8203	46.8203	0.0446	0.0000	47.9361
Energy	0.2064	1.8760	1.5759	0.0113		0.1426	0.1426		0.1426	0.1426	0.0000	4,638.7678	4,638.7678	0.2587	0.0641	4,664.3250
Mobile	7.9760	13.7682	52.2965	0.0752	7.2915	0.0724	7.3638	1.9530	0.0680	2.0210	0.0000	7,002.6602	7,002.6602	0.6582	0.7207	7,233.8816
Waste						0.0000	0.0000		0.0000	0.0000	822.9436	0.0000	822.9436	48.6346	0.0000	2,038.8080
Water						0.0000	0.0000		0.0000	0.0000	56.9406	304.2539	361.1945	5.8741	0.1412	550.1271
Total	38.5726	15.9736	82.4306	0.0880	7.2915	0.3739	7.6653	1.9530	0.3695	2.3225	879.8842	11,992.5021	12,872.3863	55.4702	0.9260	14,535.0778

	ROG	NOx	CO	SO2	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	1.59	0.60	0.67	2.58	3.67	0.91

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2025	12/31/2024	5	0	

Acres of Grading (Site Preparation Phase): 540

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Reduce Vehicle Speed on Unpaved Roads

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	7.9760	13.7682	52.2965	0.0752	7.2915	0.0724	7.3638	1.9530	0.0680	2.0210	0.0000	7,002.6602	7,002.6602	0.6582	0.7207	7,233.8816
Unmitigated	7.9760	13.7682	52.2965	0.0752	7.2915	0.0724	7.3638	1.9530	0.0680	2.0210	0.0000	7,002.6602	7,002.6602	0.6582	0.7207	7,233.8816

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	0.00	0.00	0.00		
Apartments High Rise	0.00	0.00	0.00		
Apartments High Rise	0.00	0.00	0.00		
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	31,085.60	31,049.20	31,049.20	14,026,102	14,026,102
Condo/Townhouse	11,956.00	11,942.00	11,942.00	5,394,655	5,394,655
Convenience Market with Gas Pumps	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Free-Standing Discount store	0.00	0.00	0.00		
Junior High School	0.00	0.00	0.00		

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Elementary School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Free-Standing Discount store	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Junior High School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Office Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Regional Shopping Center	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	2,596.4678	2,596.4678	0.2196	0.0266	2,609.8886
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,625.5462	2,625.5462	0.2220	0.0269	2,639.1173
NaturalGas Mitigated	0.2064	1.8760	1.5759	0.0113		0.1426	0.1426		0.1426	0.1426	0.0000	2,042.3000	2,042.3000	0.0391	0.0374	2,054.4364
NaturalGas Unmitigated	0.2064	1.8760	1.5759	0.0113		0.1426	0.1426		0.1426	0.1426	0.0000	2,042.3000	2,042.3000	0.0391	0.0374	2,054.4364

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	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	0.0000
City Park	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	0.0000
Condo/Townhouse	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	0.0000
Convenience Market with Gas Pumps	530500	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3095	28.3095	5.4000e-004	5.2000e-004	28.4777
Elementary School	2.16755e+007	0.1169	1.0625	0.8925	6.3800e-003		0.0808	0.0808		0.0808	0.0808	0.0000	1,156.6849	1,156.6849	0.0222	0.0212	1,163.5585
Free-Standing Discount store	344825	1.8600e-003	0.0169	0.0142	1.0000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	18.4012	18.4012	3.5000e-004	3.4000e-004	18.5105
Junior High School	877481	4.7300e-003	0.0430	0.0361	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	46.8257	46.8257	9.0000e-004	8.6000e-004	47.1040
Office Park	1.2408e+007	0.0669	0.6082	0.5109	3.6500e-003		0.0462	0.0462		0.0462	0.0462	0.0000	662.1381	662.1381	0.0127	0.0121	666.0729
Regional Shopping Center	1.85675e+006	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0833	99.0833	1.9000e-003	1.8200e-003	99.6721
Regional Shopping Center	578245	3.1200e-003	0.0284	0.0238	1.7000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	30.8574	30.8574	5.9000e-004	5.7000e-004	31.0407
Single Family Housing	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	0.0000
Total		0.2064	1.8760	1.5759	0.0113		0.1426	0.1426		0.1426	0.1426	0.0000	2,042.3000	2,042.3000	0.0391	0.0375	2,054.4364

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Apartments High Rise	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	0.0000
City Park	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	0.0000
Condo/Townhouse	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	0.0000
Convenience Market with Gas Pumps	530500	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3095	28.3095	5.4000e-004	5.2000e-004	28.4777
Elementary School	2.16755e+007	0.1169	1.0625	0.8925	6.3800e-003		0.0808	0.0808		0.0808	0.0808	0.0000	1,156.6849	1,156.6849	0.0222	0.0212	1,163.5585
Free-Standing Discount store	344825	1.8600e-003	0.0169	0.0142	1.0000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	18.4012	18.4012	3.5000e-004	3.4000e-004	18.5105
Junior High School	877481	4.7300e-003	0.0430	0.0361	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	46.8257	46.8257	9.0000e-004	8.6000e-004	47.1040
Office Park	1.2408e+007	0.0669	0.6082	0.5109	3.6500e-003		0.0462	0.0462		0.0462	0.0462	0.0000	662.1381	662.1381	0.0127	0.0121	666.0729
Regional Shopping Center	1.85675e+006	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0833	99.0833	1.9000e-003	1.8200e-003	99.6721
Regional Shopping Center	578245	3.1200e-003	0.0284	0.0238	1.7000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	30.8574	30.8574	5.9000e-004	5.7000e-004	31.0407
Single Family Housing	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	0.0000
Total		0.2064	1.8760	1.5759	0.0113		0.1426	0.1426		0.1426	0.1426	0.0000	2,042.3000	2,042.3000	0.0391	0.0375	2,054.4364

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Convenience Market with Gas Pumps	396000	70.0923	5.9300e-003	7.2000e-004	70.4546
Elementary School	5.92416e+006	1,048.5812	0.0887	0.0108	1,054.0011
Free-Standing Discount store	257400	45.5600	3.8500e-003	4.7000e-004	45.7955
Junior High School	239826	42.4494	3.5900e-003	4.4000e-004	42.6688
Office Park	6.1985e+006	1,097.1396	0.0928	0.0113	1,102.8105
Regional Shopping Center	1.386e+006	245.3231	0.0208	2.5100e-003	246.5912
Regional Shopping Center	431640	76.4006	6.4600e-003	7.8000e-004	76.7955
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		2,625.5462	0.2220	0.0269	2,639.1173

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Convenience Market with Gas Pumps	391350	69.2693	5.8600e-003	7.1000e-004	69.6273
Elementary School	5.82746e+006	1,031.4646	0.0872	0.0106	1,036.7961
Free-Standing Discount store	254378	45.0250	3.8100e-003	4.6000e-004	45.2578
Junior High School	235911	41.7565	3.5300e-003	4.3000e-004	41.9723
Office Park	6.16385e+006	1,091.0065	0.0923	0.0112	1,096.6458
Regional Shopping Center	1.36973e+006	242.4424	0.0205	2.4900e-003	243.6956
Regional Shopping Center	426572	75.5035	6.3900e-003	7.7000e-004	75.8938
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		2,596.4678	0.2196	0.0266	2,609.8886

6.0 Area Detail

6.1 Mitigation Measures Area

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	30.3902	0.3294	28.5582	1.5100e-003		0.1589	0.1589		0.1589	0.1589	0.0000	46.8203	46.8203	0.0446	0.0000	47.9361
Unmitigated	30.3902	0.3294	28.5582	1.5100e-003		0.1589	0.1589		0.1589	0.1589	0.0000	46.8203	46.8203	0.0446	0.0000	47.9361

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	2.0547					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	27.4804					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8551	0.3294	28.5582	1.5100e-003		0.1589	0.1589		0.1589	0.1589	0.0000	46.8203	46.8203	0.0446	0.0000	47.9361
Total	30.3902	0.3294	28.5582	1.5100e-003		0.1589	0.1589		0.1589	0.1589	0.0000	46.8203	46.8203	0.0446	0.0000	47.9361

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	2.0547					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	27.4804					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8551	0.3294	28.5582	1.5100e-003		0.1589	0.1589		0.1589	0.1589	0.0000	46.8203	46.8203	0.0446	0.0000	47.9361
Total	30.3902	0.3294	28.5582	1.5100e-003		0.1589	0.1589		0.1589	0.1589	0.0000	46.8203	46.8203	0.0446	0.0000	47.9361

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	361.1945	5.8741	0.1412	550.1271
Unmitigated	418.4038	7.3398	0.1762	654.3985

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	62.179 / 39.1998	103.5629	2.0332	0.0487	168.9054
City Park	0 / 69.963	43.3423	3.6700e-003	4.4000e-004	43.5663
Condo/Townhouse	19.6355 / 12.3789	32.7041	0.6421	0.0154	53.3385
Convenience Market with Gas Pumps	2.21461 / 1.35734	3.6645	0.0724	1.7300e-003	5.9917
Elementary School	1.37711 / 3.54114	3.9496	0.0452	1.1000e-003	5.4053
Free-Standing Discount store	1.43949 / 0.882271	2.3819	0.0471	1.1300e-003	3.8946
Junior High School	0.434877 / 1.11826	1.2472	0.0143	3.5000e-004	1.7069
Office Park	58.4524 / 35.8256	96.7212	1.9113	0.0458	158.1441
Regional Shopping Center	10.165 / 6.23019	16.8201	0.3324	7.9600e-003	27.5017
Single Family Housing	68.4514 / 43.1542	114.0101	2.2383	0.0536	185.9441
Total		418.4038	7.3398	0.1762	654.3985

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	49.7432 / 39.1998	87.7072	1.6270	0.0390	140.0063
City Park	0 / 69.963	43.3423	3.6700e-003	4.4000e-004	43.5663
Condo/Townhouse	15.7084 / 12.3789	27.6970	0.5138	0.0123	44.2125
Convenience Market with Gas Pumps	1.77168 / 1.35734	3.0998	0.0579	1.3900e-003	4.9624
Elementary School	1.10169 / 3.54114	3.5984	0.0362	8.8000e-004	4.7653
Free-Standing Discount store	1.1516 / 0.882271	2.0149	0.0377	9.0000e-004	3.2255
Junior High School	0.347902 / 1.11826	1.1363	0.0114	2.8000e-004	1.5048
Office Park	46.7619 / 35.8256	81.8157	1.5294	0.0367	130.9770
Regional Shopping Center	8.13204 / 6.23019	14.2280	0.2660	6.3800e-003	22.7773
Single Family Housing	54.7611 / 43.1542	96.5549	1.7911	0.0430	154.1297
Total		361.1945	5.8741	0.1412	550.1271

8.0 Waste Detail

8.1 Mitigation Measures Waste

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	822.9436	48.6346	0.0000	2,038,808 0
Unmitigated	822.9436	48.6346	0.0000	2,038,808 0

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	734.16	149.0279	8.8073	0.0000	369.2102
City Park	8.45	1.7153	0.1014	0.0000	4.2495
Condo/Townhouse	231.84	47.0614	2.7813	0.0000	116.5927
Convenience Market with Gas Pumps	150.26	30.5014	1.8026	0.0000	75.5660
Elementary School	173.38	35.1946	2.0799	0.0000	87.1931
Free-Standing Discount store	139.77	28.3721	1.6767	0.0000	70.2906
Junior High School	54.75	11.1138	0.6568	0.0000	27.5339
Office Park	511.5	103.8299	6.1362	0.0000	257.2341
Regional Shopping Center	240.98	48.9168	2.8909	0.0000	121.1892
Single Family Housing	1809	367.2107	21.7015	0.0000	909.7489
Total		822.9436	48.6346	0.0000	2,038.8080

VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	734.16	149.0279	8.8073	0.0000	369.2102
City Park	8.45	1.7153	0.1014	0.0000	4.2495
Condo/Townhouse	231.84	47.0614	2.7813	0.0000	116.5927
Convenience Market with Gas Pumps	150.26	30.5014	1.8026	0.0000	75.5660
Elementary School	173.38	35.1946	2.0799	0.0000	87.1931
Free-Standing Discount store	139.77	28.3721	1.6767	0.0000	70.2906
Junior High School	54.75	11.1138	0.6568	0.0000	27.5339
Office Park	511.5	103.8299	6.1362	0.0000	257.2341
Regional Shopping Center	240.98	48.9168	2.8909	0.0000	121.1892
Single Family Housing	1809	367.2107	21.7015	0.0000	909.7489
Total		822.9436	48.6346	0.0000	2,038.8080

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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VST_Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_Operations
Merced County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	550.00	1000sqft	12.63	550,000.00	0
Elementary School	950.00	Student	20.00	871,200.00	0
Junior High School	300.00	Student	0.81	35,268.51	0
City Park	5.30	Acre	5.30	230,868.00	0
City Park	8.00	Acre	8.00	348,480.00	0
City Park	5.80	Acre	5.80	252,648.00	0
City Park	7.30	Acre	7.30	317,988.00	0
City Park	1.40	Acre	1.40	60,984.00	0
City Park	4.50	Acre	4.50	196,020.00	0
City Park	15.50	Acre	15.50	675,180.00	0
City Park	4.80	Acre	4.80	209,088.00	0
City Park	45.60	Acre	45.60	1,986,336.00	0
Apartments High Rise	696.00	Dwelling Unit	24.79	696,000.00	1991
Apartments High Rise	456.00	Dwelling Unit	16.24	456,000.00	1304
Apartments High Rise	108.00	Dwelling Unit	3.00	75,600.00	309
Apartments High Rise	336.00	Dwelling Unit	11.97	336,000.00	961
Condo/Townhouse	364.00	Dwelling Unit	22.75	436,800.00	1041
Condo/Townhouse	140.00	Dwelling Unit	8.61	168,000.00	400
Single Family Housing	43.00	Dwelling Unit	17.14	139,750.00	123
Single Family Housing	66.00	Dwelling Unit	10.50	125,400.00	189
Single Family Housing	36.00	Dwelling Unit	4.13	43,200.00	103
Single Family Housing	226.00	Dwelling Unit	37.83	339,000.00	646

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Single Family Housing	64.00	Dwelling Unit	7.33	76,800.00	183
Single Family Housing	141.00	Dwelling Unit	23.60	211,500.00	403
Single Family Housing	24.00	Dwelling Unit	2.75	28,800.00	69
Single Family Housing	186.00	Dwelling Unit	43.76	511,500.00	532
Single Family Housing	131.00	Dwelling Unit	15.00	18,012.00	375
Single Family Housing	105.00	Dwelling Unit	41.86	341,250.00	300
Single Family Housing	171.00	Dwelling Unit	40.24	470,250.00	489
Single Family Housing	326.00	Dwelling Unit	54.57	489,000.00	932
Single Family Housing	13.00	Dwelling Unit	2.07	24,700.00	37
Single Family Housing	225.00	Dwelling Unit	25.78	270,000.00	644
Convenience Market with Gas Pumps	50.00	1000sqft	1.15	50,000.00	0
Free-Standing Discount store	32.50	1000sqft	0.75	32,500.00	0
Regional Shopping Center	175.00	1000sqft	4.02	175,000.00	0
Regional Shopping Center	54.50	1000sqft	1.25	54,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	390.22	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEmod 2035 forecast, anticipated first day of operations is 2039, 2035 based on CalEEmod parameters

Land Use - Acreage and sq footage taken from project description and modeling data

Construction Phase - Operations modeling only

Off-road Equipment - defaults

Off-road Equipment - ops only

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT -

Grading - ...

Architectural Coating - Sq ft per phase
 SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VST VMT = 53,226 Daily
 19,442,090 Yearly VMT

Woodstoves - No fireplaces or woodstoves installed

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - All residential units NG free and get 100% of energy from solar

Water And Wastewater - From water and wastewater study: 1.2 million gallons per day = 438 million gallons/year
 Percentage per land use type for total 438 mgpd from CalEEmod defaults

Solid Waste -

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - SJVAPCD VOC limit

Energy Mitigation - all energy star appliances

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	50
tblAreaCoating	Area_EF_Residential_Exterior	150	50
tblAreaCoating	Area_EF_Residential_Interior	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	360.00	0.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	877.80	0.00
tblFireplaces	NumberGas	277.20	0.00
tblFireplaces	NumberGas	966.35	0.00
tblFireplaces	NumberNoFireplace	718.20	0.00
tblFireplaces	NumberNoFireplace	226.80	0.00
tblFireplaces	NumberNoFireplace	790.65	0.00
tblLandUse	LandUseSquareFeet	79,423.20	871,200.00
tblLandUse	LandUseSquareFeet	108,000.00	75,600.00
tblLandUse	LandUseSquareFeet	140,000.00	168,000.00
tblLandUse	LandUseSquareFeet	364,000.00	436,800.00
tblLandUse	LandUseSquareFeet	189,000.00	341,250.00
tblLandUse	LandUseSquareFeet	23,400.00	24,700.00
tblLandUse	LandUseSquareFeet	235,800.00	18,012.00
tblLandUse	LandUseSquareFeet	253,800.00	211,500.00
tblLandUse	LandUseSquareFeet	307,800.00	470,250.00
tblLandUse	LandUseSquareFeet	334,800.00	511,500.00
tblLandUse	LandUseSquareFeet	405,000.00	270,000.00

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	406,800.00	339,000.00
tblLandUse	LandUseSquareFeet	43,200.00	28,800.00
tblLandUse	LandUseSquareFeet	586,800.00	489,000.00
tblLandUse	LandUseSquareFeet	64,800.00	43,200.00
tblLandUse	LandUseSquareFeet	77,400.00	139,750.00
tblLandUse	LandUseSquareFeet	115,200.00	76,800.00
tblLandUse	LandUseSquareFeet	118,800.00	125,400.00
tblLandUse	LotAcreage	1.82	20.00
tblLandUse	LotAcreage	1.74	3.00
tblLandUse	LotAcreage	5.42	11.97
tblLandUse	LotAcreage	7.35	16.24
tblLandUse	LotAcreage	11.23	24.79
tblLandUse	LotAcreage	8.75	8.61
tblLandUse	LotAcreage	34.09	41.86
tblLandUse	LotAcreage	4.22	2.07
tblLandUse	LotAcreage	42.53	15.00
tblLandUse	LotAcreage	45.78	23.60
tblLandUse	LotAcreage	55.52	40.24
tblLandUse	LotAcreage	60.39	43.76
tblLandUse	LotAcreage	73.05	25.78
tblLandUse	LotAcreage	73.38	37.83
tblLandUse	LotAcreage	7.79	2.75
tblLandUse	LotAcreage	105.84	54.57
tblLandUse	LotAcreage	11.69	4.13
tblLandUse	LotAcreage	13.96	17.14
tblLandUse	LotAcreage	20.78	7.33
tblLandUse	LotAcreage	21.43	10.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblProjectCharacteristics	CO2IntensityFactor	203.98	390.22
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	1.25
tblVehicleTrips	HO_TTP	35.70	0.00
tblVehicleTrips	HS_TL	7.30	1.24
tblVehicleTrips	HS_TTP	17.40	0.00
tblVehicleTrips	HW_TL	10.80	0.00
tblVehicleTrips	HW_TL	10.80	1.24
tblVehicleTrips	HW_TTP	46.90	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	85.30
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	70.76	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	85.30
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	60.21	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	7.32	85.30
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	53.12	0.00
tblVehicleTrips	WD_TR	2.13	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	103,985,824.89	62,178,982.00
tblWater	IndoorWaterUseRate	32,837,628.91	19,635,468.00
tblWater	IndoorWaterUseRate	3,703,626.07	2,214,607.00
tblWater	IndoorWaterUseRate	2,303,028.00	1,377,110.00
tblWater	IndoorWaterUseRate	2,407,356.95	1,439,494.00
tblWater	IndoorWaterUseRate	727,272.00	434,877.00
tblWater	IndoorWaterUseRate	97,753,561.40	58,452,361.00
tblWater	IndoorWaterUseRate	16,999,643.68	10,165,045.00
tblWater	IndoorWaterUseRate	114,475,623.02	68,451,423.00
tblWater	OutdoorWaterUseRate	65,556,280.91	39,199,793.00
tblWater	OutdoorWaterUseRate	117,003,468.54	69,962,965.00
tblWater	OutdoorWaterUseRate	20,701,983.45	12,378,882.00
tblWater	OutdoorWaterUseRate	2,269,964.37	1,357,340.00
tblWater	OutdoorWaterUseRate	5,922,072.00	3,541,140.00
tblWater	OutdoorWaterUseRate	1,475,476.84	882,271.00
tblWater	OutdoorWaterUseRate	1,870,128.00	1,118,255.00
tblWater	OutdoorWaterUseRate	59,913,473.11	35,825,641.00
tblWater	OutdoorWaterUseRate	10,419,136.45	6,230,189.00
tblWater	OutdoorWaterUseRate	72,169,414.51	43,154,158.00
tblWoodstoves	NumberCatalytic	56.00	0.00
tblWoodstoves	NumberCatalytic	31.36	0.00

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169
Energy	1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6185	12,335.6185	0.2364	0.2262	12,408.9230
Mobile	58.9200	72.2256	273.5934	0.4319	41.2121	0.3967	41.6088	11.0122	0.3726	11.3848		44,287.6620	44,287.6620	3.5714	4.2463	45,642.3307
Total	231.3884	86.1655	599.5416	0.5104	41.2121	2.9434	44.1555	11.0122	2.9193	13.9315	0.0000	57,196.7304	57,196.7304	4.3545	4.4724	58,638.3705

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	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169
Energy	1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6185	12,335.6185	0.2364	0.2262	12,408.9230
Mobile	58.9200	72.2256	273.5934	0.4319	41.2121	0.3967	41.6088	11.0122	0.3726	11.3848		44,287.6620	44,287.6620	3.5714	4.2463	45,642.3307
Total	231.3884	86.1655	599.5416	0.5104	41.2121	2.9434	44.1555	11.0122	2.9193	13.9315	0.0000	57,196.7304	57,196.7304	4.3545	4.4724	58,638.3705

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2025	12/31/2024	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Reduce Vehicle Speed on Unpaved Roads

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Condo/Townhouse	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Convenience Market with Gas Pumps	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Elementary School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Free-Standing Discount store	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Junior High School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Office Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Regional Shopping Center	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
NaturalGas Mitigated	1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6185	12,335.6185	0.2364	0.2262	12,408.9230
NaturalGas Unmitigated	1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6185	12,335.6185	0.2364	0.2262	12,408.9230

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Convenience Market with Gas Pumps	1453.42	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Elementary School	59384.8	0.6404	5.8220	4.8905	0.0349		0.4425	0.4425		0.4425	0.4425		6,986.4484	6,986.4484	0.1339	0.1281	7,027.9653
Free-Standing Discount store	944.726	0.0102	0.0926	0.0778	5.6000e-004		7.0400e-003	7.0400e-003		7.0400e-003	7.0400e-003		111.1442	111.1442	2.1300e-003	2.0400e-003	111.8047
Junior High School	2404.06	0.0259	0.2357	0.1980	1.4100e-003		0.0179	0.0179		0.0179	0.0179		282.8302	282.8302	5.4200e-003	5.1900e-003	284.5109
Office Park	33994.5	0.3666	3.3328	2.7996	0.0200		0.2533	0.2533		0.2533	0.2533		3,999.3554	3,999.3554	0.0767	0.0733	4,023.1215
Regional Shopping Center	1584.23	0.0171	0.1553	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118		186.3803	186.3803	3.5700e-003	3.4200e-003	187.4879
Regional Shopping Center	5086.99	0.0549	0.4987	0.4189	2.9900e-003		0.0379	0.0379		0.0379	0.0379		598.4690	598.4690	0.0115	0.0110	602.0254
Single Family Housing	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		1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6186	12,335.6186	0.2364	0.2262	12,408.9230

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Convenience Market with Gas Pumps	1.45342	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Elementary School	59.3848	0.6404	5.8220	4.8905	0.0349		0.4425	0.4425		0.4425	0.4425		6,986.4484	6,986.4484	0.1339	0.1281	7,027.9653
Free-Standing Discount store	0.944726	0.0102	0.0926	0.0778	5.6000e-004		7.0400e-003	7.0400e-003		7.0400e-003	7.0400e-003		111.1442	111.1442	2.1300e-003	2.0400e-003	111.8047
Junior High School	2.40406	0.0259	0.2357	0.1980	1.4100e-003		0.0179	0.0179		0.0179	0.0179		282.8302	282.8302	5.4200e-003	5.1900e-003	284.5109
Office Park	33.9945	0.3666	3.3328	2.7996	0.0200		0.2533	0.2533		0.2533	0.2533		3,999.3554	3,999.3554	0.0767	0.0733	4,023.1215
Regional Shopping Center	1.58423	0.0171	0.1553	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118		186.3803	186.3803	3.5700e-003	3.4200e-003	187.4879
Regional Shopping Center	5.08699	0.0549	0.4987	0.4189	2.9900e-003		0.0379	0.0379		0.0379	0.0379		598.4690	598.4690	0.0115	0.0110	602.0254
Single Family Housing	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		1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6186	12,335.6186	0.2364	0.2262	12,408.9230

6.0 Area Detail

6.1 Mitigation Measures Area

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169
Unmitigated	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169

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	11.2588					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	150.5774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.5014	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654		573.4499	573.4499	0.5467		587.1169
Total	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	11.2588					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	150.5774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.5014	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654		573.4499	573.4499	0.5467		587.1169
Total	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169

7.0 Water Detail

7.1 Mitigation Measures Water

VST_Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_Dummy_Run
Merced County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	550.00	1000sqft	12.63	550,000.00	0
Elementary School	950.00	Student	20.00	871,200.00	0
Junior High School	300.00	Student	0.81	35,268.51	0
City Park	5.30	Acre	5.30	230,868.00	0
City Park	8.00	Acre	8.00	348,480.00	0
City Park	5.80	Acre	5.80	252,648.00	0
City Park	7.30	Acre	7.30	317,988.00	0
City Park	1.40	Acre	1.40	60,984.00	0
City Park	4.50	Acre	4.50	196,020.00	0
City Park	15.50	Acre	15.50	675,180.00	0
City Park	4.80	Acre	4.80	209,088.00	0
City Park	45.60	Acre	45.60	1,986,336.00	0
Apartments High Rise	696.00	Dwelling Unit	24.79	696,000.00	1991
Apartments High Rise	456.00	Dwelling Unit	16.24	456,000.00	1304
Apartments High Rise	108.00	Dwelling Unit	3.00	75,600.00	309
Apartments High Rise	336.00	Dwelling Unit	11.97	336,000.00	961
Condo/Townhouse	364.00	Dwelling Unit	22.75	436,800.00	1041
Condo/Townhouse	140.00	Dwelling Unit	8.61	168,000.00	400
Single Family Housing	43.00	Dwelling Unit	17.14	139,750.00	123
Single Family Housing	66.00	Dwelling Unit	10.50	125,400.00	189
Single Family Housing	36.00	Dwelling Unit	4.13	43,200.00	103
Single Family Housing	226.00	Dwelling Unit	37.83	339,000.00	646

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Single Family Housing	64.00	Dwelling Unit	7.33	76,800.00	183
Single Family Housing	141.00	Dwelling Unit	23.60	211,500.00	403
Single Family Housing	24.00	Dwelling Unit	2.75	28,800.00	69
Single Family Housing	186.00	Dwelling Unit	43.76	511,500.00	532
Single Family Housing	131.00	Dwelling Unit	15.00	18,012.00	375
Single Family Housing	105.00	Dwelling Unit	41.86	341,250.00	300
Single Family Housing	171.00	Dwelling Unit	40.24	470,250.00	489
Single Family Housing	326.00	Dwelling Unit	54.57	489,000.00	932
Single Family Housing	13.00	Dwelling Unit	2.07	24,700.00	37
Single Family Housing	225.00	Dwelling Unit	25.78	270,000.00	644
Convenience Market with Gas Pumps	50.00	1000sqft	1.15	50,000.00	0
Free-Standing Discount store	32.50	1000sqft	0.75	32,500.00	0
Regional Shopping Center	175.00	1000sqft	4.02	175,000.00	0
Regional Shopping Center	54.50	1000sqft	1.25	54,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	390.22	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEmod 2035 forecast, anticipated first day of operations is 2039, 2035 based on CalEEmod parameters

Land Use - Acreage and sq footage taken from project description and modeling data

Construction Phase - Operations modeling only

Off-road Equipment - defaults

Trips and VMT -

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading - ...

Architectural Coating - Sq ft per phase
 SJVAPCD VOC limit = 50 g/L

Vehicle Trips -

Woodstoves - No fireplaces or woodstoves installed

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use -

Water And Wastewater -

Solid Waste -

Land Use Change -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - SJVAPCD VOC limit

Energy Mitigation - No energy start commitments

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LandUseSquareFeet	79,423.20	871,200.00
tblLandUse	LandUseSquareFeet	108,000.00	75,600.00
tblLandUse	LandUseSquareFeet	140,000.00	168,000.00
tblLandUse	LandUseSquareFeet	364,000.00	436,800.00
tblLandUse	LandUseSquareFeet	189,000.00	341,250.00
tblLandUse	LandUseSquareFeet	23,400.00	24,700.00
tblLandUse	LandUseSquareFeet	235,800.00	18,012.00
tblLandUse	LandUseSquareFeet	253,800.00	211,500.00

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	307,800.00	470,250.00
tblLandUse	LandUseSquareFeet	334,800.00	511,500.00
tblLandUse	LandUseSquareFeet	405,000.00	270,000.00
tblLandUse	LandUseSquareFeet	406,800.00	339,000.00
tblLandUse	LandUseSquareFeet	43,200.00	28,800.00
tblLandUse	LandUseSquareFeet	586,800.00	489,000.00
tblLandUse	LandUseSquareFeet	64,800.00	43,200.00
tblLandUse	LandUseSquareFeet	77,400.00	139,750.00
tblLandUse	LandUseSquareFeet	115,200.00	76,800.00
tblLandUse	LandUseSquareFeet	118,800.00	125,400.00
tblLandUse	LotAcreage	1.82	20.00
tblLandUse	LotAcreage	1.74	3.00
tblLandUse	LotAcreage	5.42	11.97
tblLandUse	LotAcreage	7.35	16.24
tblLandUse	LotAcreage	11.23	24.79
tblLandUse	LotAcreage	8.75	8.61
tblLandUse	LotAcreage	34.09	41.86
tblLandUse	LotAcreage	4.22	2.07
tblLandUse	LotAcreage	42.53	15.00
tblLandUse	LotAcreage	45.78	23.60
tblLandUse	LotAcreage	55.52	40.24
tblLandUse	LotAcreage	60.39	43.76
tblLandUse	LotAcreage	73.05	25.78
tblLandUse	LotAcreage	73.38	37.83
tblLandUse	LotAcreage	7.79	2.75
tblLandUse	LotAcreage	105.84	54.57
tblLandUse	LotAcreage	11.69	4.13
tblLandUse	LotAcreage	13.96	17.14
tblLandUse	LotAcreage	20.78	7.33

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LotAcreage	21.43	10.50
tblProjectCharacteristics	CO2IntensityFactor	203.98	390.22
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2025	0.3299	3.2977	2.3953	5.1300e-003	2.6627	0.1419	2.8046	1.3319	0.1306	1.4624	0.0000	451.2701	451.2701	0.1417	4.3000e-004	454.9399
2026	0.1249	1.2507	0.9071	1.9400e-003	1.1877	0.0538	1.2416	0.5244	0.0495	0.5739	0.0000	171.0146	171.0146	0.0537	1.5000e-004	172.4028
Maximum	0.3299	3.2977	2.3953	5.1300e-003	2.6627	0.1419	2.8046	1.3319	0.1306	1.4624	0.0000	451.2701	451.2701	0.1417	4.3000e-004	454.9399

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					
2025	0.3299	3.2977	2.3953	5.1300e-003	2.6627	0.1419	2.8046	1.3319	0.1306	1.4624	0.0000	451.2696	451.2696	0.1417	4.3000e-004	454.9394
2026	0.1249	1.2507	0.9071	1.9400e-003	1.1877	0.0538	1.2416	0.5244	0.0495	0.5739	0.0000	171.0144	171.0144	0.0537	1.5000e-004	172.4026
Maximum	0.3299	3.2977	2.3953	5.1300e-003	2.6627	0.1419	2.8046	1.3319	0.1306	1.4624	0.0000	451.2696	451.2696	0.1417	4.3000e-004	454.9394

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.00	0.00	0.00	0.00	0.00	0.00	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	1-1-2025	3-31-2025	0.8937	0.8937
2	4-1-2025	6-30-2025	0.9036	0.9036
3	7-1-2025	9-30-2025	0.9136	0.9136
4	10-1-2025	12-31-2025	0.9135	0.9135
5	1-1-2026	3-31-2026	0.8934	0.8934
6	4-1-2026	6-30-2026	0.4864	0.4864
		Highest	0.9136	0.9136

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	35.9000	12.2958	33.6503	0.0779		1.1264	1.1264		1.1264	1.1264	0.0000	13,905.12 48	13,905.12 48	0.3103	0.2541	13,988.59 37
Energy	0.5807	5.0746	2.9370	0.0317		0.4012	0.4012		0.4012	0.4012	0.0000	12,407.51 70	12,407.51 70	0.6734	0.1736	12,476.09 56
Mobile	19.1366	43.6151	171.9289	0.4236	48.2052	0.3835	48.5887	12.9117	0.3616	13.2734	0.0000	39,359.83 61	39,359.83 61	1.9627	2.7464	40,227.33 60
Waste						0.0000	0.0000		0.0000	0.0000	822.9436	0.0000	822.9436	48.6346	0.0000	2,038.808 0
Water						0.0000	0.0000		0.0000	0.0000	119.0316	580.6914	699.7230	12.2748	0.2946	1,094.391 9
Total	55.6173	60.9855	208.5162	0.5331	48.2052	1.9110	50.1162	12.9117	1.8892	14.8009	941.9752	66,253.16 93	67,195.14 46	63.8558	3.4688	69,825.22 52

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	35.9000	12.2958	33.6503	0.0779		1.1264	1.1264		1.1264	1.1264	0.0000	13,905.12 48	13,905.12 48	0.3103	0.2541	13,988.59 37
Energy	0.5807	5.0746	2.9370	0.0317		0.4012	0.4012		0.4012	0.4012	0.0000	12,407.51 70	12,407.51 70	0.6734	0.1736	12,476.09 56
Mobile	19.1366	43.6151	171.9289	0.4236	48.2052	0.3835	48.5887	12.9117	0.3616	13.2734	0.0000	39,359.83 61	39,359.83 61	1.9627	2.7464	40,227.33 60
Waste						0.0000	0.0000		0.0000	0.0000	822.9436	0.0000	822.9436	48.6346	0.0000	2,038.808 0
Water						0.0000	0.0000		0.0000	0.0000	119.0316	580.6914	699.7230	12.2748	0.2946	1,094.391 9
Total	55.6173	60.9855	208.5162	0.5331	48.2052	1.9110	50.1162	12.9117	1.8892	14.8009	941.9752	66,253.16 93	67,195.14 46	63.8558	3.4688	69,825.22 52

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2025	5/19/2026	5	360	

Acres of Grading (Site Preparation Phase): 540

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2025

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					2.6440	0.0000	2.6440	1.3269	0.0000	1.3269	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3227	3.2930	2.3375	4.9700e-003		0.1418	0.1418		0.1305	0.1305	0.0000	436.7442	436.7442	0.1413	0.0000	440.2755
Total	0.3227	3.2930	2.3375	4.9700e-003	2.6440	0.1418	2.7858	1.3269	0.1305	1.4574	0.0000	436.7442	436.7442	0.1413	0.0000	440.2755

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2300e-003	4.6900e-003	0.0579	1.6000e-004	0.0187	1.0000e-004	0.0188	4.9800e-003	9.0000e-005	5.0700e-003	0.0000	14.5259	14.5259	4.5000e-004	4.3000e-004	14.6645
Total	7.2300e-003	4.6900e-003	0.0579	1.6000e-004	0.0187	1.0000e-004	0.0188	4.9800e-003	9.0000e-005	5.0700e-003	0.0000	14.5259	14.5259	4.5000e-004	4.3000e-004	14.6645

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.6440	0.0000	2.6440	1.3269	0.0000	1.3269	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3227	3.2930	2.3375	4.9700e-003		0.1418	0.1418		0.1305	0.1305	0.0000	436.7437	436.7437	0.1413	0.0000	440.2749
Total	0.3227	3.2930	2.3375	4.9700e-003	2.6440	0.1418	2.7858	1.3269	0.1305	1.4574	0.0000	436.7437	436.7437	0.1413	0.0000	440.2749

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2300e-003	4.6900e-003	0.0579	1.6000e-004	0.0187	1.0000e-004	0.0188	4.9800e-003	9.0000e-005	5.0700e-003	0.0000	14.5259	14.5259	4.5000e-004	4.3000e-004	14.6645
Total	7.2300e-003	4.6900e-003	0.0579	1.6000e-004	0.0187	1.0000e-004	0.0188	4.9800e-003	9.0000e-005	5.0700e-003	0.0000	14.5259	14.5259	4.5000e-004	4.3000e-004	14.6645

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2026

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					1.1806	0.0000	1.1806	0.5225	0.0000	0.5225	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1224	1.2491	0.8866	1.8900e-003		0.0538	0.0538		0.0495	0.0495	0.0000	165.6616	165.6616	0.0536	0.0000	167.0010
Total	0.1224	1.2491	0.8866	1.8900e-003	1.1806	0.0538	1.2344	0.5225	0.0495	0.5720	0.0000	165.6616	165.6616	0.0536	0.0000	167.0010

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	2.5400e-003	1.5800e-003	0.0205	6.0000e-005	7.1100e-003	4.0000e-005	7.1400e-003	1.8900e-003	3.0000e-005	1.9200e-003	0.0000	5.3530	5.3530	1.6000e-004	1.5000e-004	5.4018
Total	2.5400e-003	1.5800e-003	0.0205	6.0000e-005	7.1100e-003	4.0000e-005	7.1400e-003	1.8900e-003	3.0000e-005	1.9200e-003	0.0000	5.3530	5.3530	1.6000e-004	1.5000e-004	5.4018

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1806	0.0000	1.1806	0.5225	0.0000	0.5225	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1224	1.2491	0.8866	1.8900e-003		0.0538	0.0538		0.0495	0.0495	0.0000	165.6614	165.6614	0.0536	0.0000	167.0008
Total	0.1224	1.2491	0.8866	1.8900e-003	1.1806	0.0538	1.2344	0.5225	0.0495	0.5720	0.0000	165.6614	165.6614	0.0536	0.0000	167.0008

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	2.5400e-003	1.5800e-003	0.0205	6.0000e-005	7.1100e-003	4.0000e-005	7.1400e-003	1.8900e-003	3.0000e-005	1.9200e-003	0.0000	5.3530	5.3530	1.6000e-004	1.5000e-004	5.4018
Total	2.5400e-003	1.5800e-003	0.0205	6.0000e-005	7.1100e-003	4.0000e-005	7.1400e-003	1.8900e-003	3.0000e-005	1.9200e-003	0.0000	5.3530	5.3530	1.6000e-004	1.5000e-004	5.4018

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Mitigated	19.1366	43.6151	171.9289	0.4236	48.2052	0.3835	48.5887	12.9117	0.3616	13.2734	0.0000	39,359.83 61	39,359.83 61	1.9627	2.7464	40,227.33 60
Unmitigated	19.1366	43.6151	171.9289	0.4236	48.2052	0.3835	48.5887	12.9117	0.3616	13.2734	0.0000	39,359.83 61	39,359.83 61	1.9627	2.7464	40,227.33 60

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,097.20	3,152.88	2498.64	8,795,350	8,795,350
Apartments High Rise	2,029.20	2,065.68	1637.04	5,762,471	5,762,471
Apartments High Rise	480.60	489.24	387.72	1,364,796	1,364,796
Apartments High Rise	1,495.20	1,522.08	1206.24	4,246,031	4,246,031
City Park	4.13	10.39	11.61	13,012	13,012
City Park	6.24	15.68	17.52	19,641	19,641
City Park	4.52	11.37	12.70	14,239	14,239
City Park	5.69	14.31	15.99	17,922	17,922
City Park	1.09	2.74	3.07	3,437	3,437
City Park	3.51	8.82	9.86	11,048	11,048
City Park	12.09	30.38	33.95	38,054	38,054
City Park	3.74	9.41	10.51	11,784	11,784
City Park	35.57	89.38	99.86	111,952	111,952
Condo/Townhouse	2,664.48	2,962.96	2285.92	7,727,534	7,727,534

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	1,024.80	1,139.60	879.20	2,972,129	2,972,129
Convenience Market with Gas Pumps	31,210.00	31,210.00	31,210.00	16,741,176	16,741,176
Elementary School	1,795.50	0.00	0.00	2,827,834	2,827,834
Free-Standing Discount store	1,726.40	2,299.70	1,956.83	2,870,940	2,870,940
Junior High School	639.00	0.00	0.00	1,026,140	1,026,140
Office Park	6,088.50	902.00	418.00	11,372,097	11,372,097
Regional Shopping Center	6,606.25	8,071.00	3,692.50	11,219,836	11,219,836
Regional Shopping Center	2,057.38	2,513.54	1,149.95	3,494,177	3,494,177
Single Family Housing	405.92	410.22	367.65	1,168,192	1,168,192
Single Family Housing	623.04	629.64	564.30	1,793,039	1,793,039
Single Family Housing	339.84	343.44	307.80	978,021	978,021
Single Family Housing	2,133.44	2,156.04	1,932.30	6,139,800	6,139,800
Single Family Housing	604.16	610.56	547.20	1,738,704	1,738,704
Single Family Housing	1,331.04	1,345.14	1,205.55	3,830,583	3,830,583
Single Family Housing	226.56	228.96	205.20	652,014	652,014
Single Family Housing	1,755.84	1,774.44	1,590.30	5,053,110	5,053,110
Single Family Housing	1,236.64	1,249.74	1,120.05	3,558,911	3,558,911
Single Family Housing	991.20	1,001.70	897.75	2,852,562	2,852,562
Single Family Housing	1,614.24	1,631.34	1,462.05	4,645,601	4,645,601
Single Family Housing	3,077.44	3,110.04	2,787.30	8,856,526	8,856,526
Single Family Housing	122.72	124.02	111.15	353,174	353,174
Single Family Housing	2,124.00	2,146.50	1,923.75	6,112,633	6,112,633
Total	77,577.18	73,282.93	62,559.44	128,394,471	128,394,471

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

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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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Condo/Townhouse	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Free-Standing Discount store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00	63	25	12
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

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City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Condo/Townhouse	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Convenience Market with Gas Pumps	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Elementary School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Free-Standing Discount store	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Junior High School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Office Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Regional Shopping Center	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

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	6,660.9400	6,660.9400	0.5633	0.0683	6,695.3696
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	6,660.9400	6,660.9400	0.5633	0.0683	6,695.3696
NaturalGas Mitigated	0.5807	5.0746	2.9370	0.0317		0.4012	0.4012		0.4012	0.4012	0.0000	5,746.5770	5,746.5770	0.1101	0.1054	5,780.7260
NaturalGas Unmitigated	0.5807	5.0746	2.9370	0.0317		0.4012	0.4012		0.4012	0.4012	0.0000	5,746.5770	5,746.5770	0.1101	0.1054	5,780.7260

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	1.27229e+006	6.8600e-003	0.0586	0.0250	3.7000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003	0.0000	67.8944	67.8944	1.3000e-003	1.2400e-003	68.2979
Apartments High Rise	3.95824e+006	0.0213	0.1824	0.0776	1.1600e-003		0.0148	0.0148		0.0148	0.0148	0.0000	211.2270	211.2270	4.0500e-003	3.8700e-003	212.4822
Apartments High Rise	5.3719e+006	0.0290	0.2475	0.1053	1.5800e-003		0.0200	0.0200		0.0200	0.0200	0.0000	286.6652	286.6652	5.4900e-003	5.2600e-003	288.3687
Apartments High Rise	8.19922e+006	0.0442	0.3778	0.1608	2.4100e-003		0.0306	0.0306		0.0306	0.0306	0.0000	437.5417	437.5417	8.3900e-003	8.0200e-003	440.1418
City Park	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	0.0000
Condo/Townhouse	2.32775e+006	0.0126	0.1073	0.0456	6.8000e-004		8.6700e-003	8.6700e-003		8.6700e-003	8.6700e-003	0.0000	124.2175	124.2175	2.3800e-003	2.2800e-003	124.9557
Condo/Townhouse	6.05214e+006	0.0326	0.2789	0.1187	1.7800e-003		0.0226	0.0226		0.0226	0.0226	0.0000	322.9655	322.9655	6.1900e-003	5.9200e-003	324.8847
Convenience Market with Gas Pumps	530500	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3095	28.3095	5.4000e-004	5.2000e-004	28.4777
Elementary School	2.16755e+007	0.1169	1.0625	0.8925	6.3800e-003		0.0808	0.0808		0.0808	0.0808	0.0000	1,156.6849	1,156.6849	0.0222	0.0212	1,163.5585
Free-Standing Discount store	344825	1.8600e-003	0.0169	0.0142	1.0000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	18.4012	18.4012	3.5000e-004	3.4000e-004	18.5105
Junior High School	877481	4.7300e-003	0.0430	0.0361	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	46.8257	46.8257	9.0000e-004	8.6000e-004	47.1040
Office Park	1.2408e+007	0.0669	0.6082	0.5109	3.6500e-003		0.0462	0.0462		0.0462	0.0462	0.0000	662.1381	662.1381	0.0127	0.0121	666.0729
Regional Shopping Center	1.85675e+006	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0833	99.0833	1.9000e-003	1.8200e-003	99.6721
Regional Shopping Center	578245	3.1200e-003	0.0284	0.0238	1.7000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	30.8574	30.8574	5.9000e-004	5.7000e-004	31.0407
Single Family Housing	1.03361e+006	5.5700e-003	0.0476	0.0203	3.0000e-004		3.8500e-003	3.8500e-003		3.8500e-003	3.8500e-003	0.0000	55.1576	55.1576	1.0600e-003	1.0100e-003	55.4854
Single Family Housing	1.5384e+006	8.3000e-003	0.0709	0.0302	4.5000e-004		5.7300e-003	5.7300e-003		5.7300e-003	5.7300e-003	0.0000	82.0951	82.0951	1.5700e-003	1.5100e-003	82.5829

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	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.58648e+006	8.5500e-003	0.0731	0.0311	4.7000e-004		5.9100e-003	5.9100e-003		5.9100e-003	5.9100e-003	0.0000	84.6605	84.6605	1.6200e-003	1.5500e-003	85.1636
Single Family Housing	2.52394e+006	0.0136	0.1163	0.0495	7.4000e-004		9.4000e-003	9.4000e-003		9.4000e-003	9.4000e-003	0.0000	134.6872	134.6872	2.5800e-003	2.4700e-003	135.4876
Single Family Housing	3.14892e+006	0.0170	0.1451	0.0617	9.3000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	168.0383	168.0383	3.2200e-003	3.0800e-003	169.0369
Single Family Housing	3.38929e+006	0.0183	0.1562	0.0665	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	180.8657	180.8657	3.4700e-003	3.3200e-003	181.9405
Single Family Housing	312488	1.6800e-003	0.0144	6.1300e-003	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	16.6756	16.6756	3.2000e-004	3.1000e-004	16.7747
Single Family Housing	4.11042e+006	0.0222	0.1894	0.0806	1.2100e-003		0.0153	0.0153		0.0153	0.0153	0.0000	219.3477	219.3477	4.2000e-003	4.0200e-003	220.6512
Single Family Housing	4.47098e+006	0.0241	0.2060	0.0877	1.3100e-003		0.0167	0.0167		0.0167	0.0167	0.0000	238.5888	238.5888	4.5700e-003	4.3700e-003	240.0066
Single Family Housing	5.40845e+006	0.0292	0.2492	0.1061	1.5900e-003		0.0202	0.0202		0.0202	0.0202	0.0000	288.6154	288.6154	5.5300e-003	5.2900e-003	290.3305
Single Family Housing	5.43249e+006	0.0293	0.2503	0.1065	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.8982	289.8982	5.5600e-003	5.3100e-003	291.6209
Single Family Housing	576901	3.1100e-003	0.0266	0.0113	1.7000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	30.7857	30.7857	5.9000e-004	5.6000e-004	30.9686
Single Family Housing	7.83624e+006	0.0423	0.3611	0.1537	2.3000e-003		0.0292	0.0292		0.0292	0.0292	0.0000	418.1717	418.1717	8.0100e-003	7.6700e-003	420.6567
Single Family Housing	865352	4.6700e-003	0.0399	0.0170	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1785	46.1785	8.9000e-004	8.5000e-004	46.4529
Total		0.5807	5.0746	2.9370	0.0317		0.4012	0.4012		0.4012	0.4012	0.0000	5,746.5770	5,746.5770	0.1101	0.1054	5,780.7260

5.2 Energy by Land Use - NaturalGas

Mitigated

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	3.95824e+006	0.0213	0.1824	0.0776	1.1600e-003		0.0148	0.0148		0.0148	0.0148	0.0000	211.2270	211.2270	4.0500e-003	3.8700e-003	212.4822
Apartments High Rise	5.3719e+006	0.0290	0.2475	0.1053	1.5800e-003		0.0200	0.0200		0.0200	0.0200	0.0000	286.6652	286.6652	5.4900e-003	5.2600e-003	288.3687
Apartments High Rise	8.19922e+006	0.0442	0.3778	0.1608	2.4100e-003		0.0306	0.0306		0.0306	0.0306	0.0000	437.5417	437.5417	8.3900e-003	8.0200e-003	440.1418
Apartments High Rise	1.27229e+006	6.8600e-003	0.0586	0.0250	3.7000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003	0.0000	67.8944	67.8944	1.3000e-003	1.2400e-003	68.2979
City Park	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	0.0000
Condo/Townhouse	2.32775e+006	0.0126	0.1073	0.0456	6.8000e-004		8.6700e-003	8.6700e-003		8.6700e-003	8.6700e-003	0.0000	124.2175	124.2175	2.3800e-003	2.2800e-003	124.9557
Condo/Townhouse	6.05214e+006	0.0326	0.2789	0.1187	1.7800e-003		0.0226	0.0226		0.0226	0.0226	0.0000	322.9655	322.9655	6.1900e-003	5.9200e-003	324.8847
Convenience Market with Gas Pumps	530500	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3095	28.3095	5.4000e-004	5.2000e-004	28.4777
Elementary School	2.16755e+007	0.1169	1.0625	0.8925	6.3800e-003		0.0808	0.0808		0.0808	0.0808	0.0000	1,156.6849	1,156.6849	0.0222	0.0212	1,163.5585
Free-Standing Discount store	344825	1.8600e-003	0.0169	0.0142	1.0000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	18.4012	18.4012	3.5000e-004	3.4000e-004	18.5105
Junior High School	877481	4.7300e-003	0.0430	0.0361	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	46.8257	46.8257	9.0000e-004	8.6000e-004	47.1040
Office Park	1.2408e+007	0.0669	0.6082	0.5109	3.6500e-003		0.0462	0.0462		0.0462	0.0462	0.0000	662.1381	662.1381	0.0127	0.0121	666.0729
Regional Shopping Center	1.85675e+006	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0833	99.0833	1.9000e-003	1.8200e-003	99.6721
Regional Shopping Center	578245	3.1200e-003	0.0284	0.0238	1.7000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	30.8574	30.8574	5.9000e-004	5.7000e-004	31.0407
Single Family Housing	1.03361e+006	5.5700e-003	0.0476	0.0203	3.0000e-004		3.8500e-003	3.8500e-003		3.8500e-003	3.8500e-003	0.0000	55.1576	55.1576	1.0600e-003	1.0100e-003	55.4854
Single Family Housing	1.5384e+006	8.3000e-003	0.0709	0.0302	4.5000e-004		5.7300e-003	5.7300e-003		5.7300e-003	5.7300e-003	0.0000	82.0951	82.0951	1.5700e-003	1.5100e-003	82.5829
Single Family Housing	1.58648e+006	8.5500e-003	0.0731	0.0311	4.7000e-004		5.9100e-003	5.9100e-003		5.9100e-003	5.9100e-003	0.0000	84.6605	84.6605	1.6200e-003	1.5500e-003	85.1636
Single Family Housing	2.52394e+006	0.0136	0.1163	0.0495	7.4000e-004		9.4000e-003	9.4000e-003		9.4000e-003	9.4000e-003	0.0000	134.6872	134.6872	2.5800e-003	2.4700e-003	135.4876
Single Family Housing	3.14892e+006	0.0170	0.1451	0.0617	9.3000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	168.0383	168.0383	3.2200e-003	3.0800e-003	169.0369

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.38929e+006	0.0183	0.1562	0.0665	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	180.8657	180.8657	3.4700e-003	3.3200e-003	181.9405
Single Family Housing	312488	1.6800e-003	0.0144	6.1300e-003	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	16.6756	16.6756	3.2000e-004	3.1000e-004	16.7747
Single Family Housing	4.11042e+006	0.0222	0.1894	0.0806	1.2100e-003		0.0153	0.0153		0.0153	0.0153	0.0000	219.3477	219.3477	4.2000e-003	4.0200e-003	220.6512
Single Family Housing	4.47098e+006	0.0241	0.2060	0.0877	1.3100e-003		0.0167	0.0167		0.0167	0.0167	0.0000	238.5888	238.5888	4.5700e-003	4.3700e-003	240.0066
Single Family Housing	5.40845e+006	0.0292	0.2492	0.1061	1.5900e-003		0.0202	0.0202		0.0202	0.0202	0.0000	288.6154	288.6154	5.5300e-003	5.2900e-003	290.3305
Single Family Housing	5.43249e+006	0.0293	0.2503	0.1065	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.8982	289.8982	5.5600e-003	5.3100e-003	291.6209
Single Family Housing	576901	3.1100e-003	0.0266	0.0113	1.7000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	30.7857	30.7857	5.9000e-004	5.6000e-004	30.9686
Single Family Housing	7.83624e+006	0.0423	0.3611	0.1537	2.3000e-003		0.0292	0.0292		0.0292	0.0292	0.0000	418.1717	418.1717	8.0100e-003	7.6700e-003	420.6567
Single Family Housing	865352	4.6700e-003	0.0399	0.0170	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1785	46.1785	8.9000e-004	8.5000e-004	46.4529
Total		0.5807	5.0746	2.9370	0.0317		0.4012	0.4012		0.4012	0.4012	0.0000	5,746.5770	5,746.5770	0.1101	0.1054	5,780.7260

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	1.32545e+006	234.6056	0.0198	2.4000e-003	235.8183
Apartments High Rise	1.79882e+006	318.3934	0.0269	3.2600e-003	320.0391

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	2.74557e+006	485.9688	0.0411	4.9800e-003	488.4807
Apartments High Rise	426037	75.4090	6.3800e-003	7.7000e-004	75.7987
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.80021e+006	318.6385	0.0270	3.2700e-003	320.2855
Condo/Townhouse	692388	122.5533	0.0104	1.2600e-003	123.1867
Convenience Market with Gas Pumps	396000	70.0923	5.9300e-003	7.2000e-004	70.4546
Elementary School	5.92416e+006	1,048.5812	0.0887	0.0108	1,054.0011
Free-Standing Discount store	257400	45.5600	3.8500e-003	4.7000e-004	45.7955
Junior High School	239826	42.4494	3.5900e-003	4.4000e-004	42.6688
Office Park	6.1985e+006	1,097.1396	0.0928	0.0113	1,102.8105
Regional Shopping Center	1.386e+006	245.3231	0.0208	2.5100e-003	246.5912
Regional Shopping Center	431640	76.4006	6.4600e-003	7.8000e-004	76.7955
Single Family Housing	1.04459e+006	184.8931	0.0156	1.9000e-003	185.8488
Single Family Housing	1.12433e+006	199.0070	0.0168	2.0400e-003	200.0357
Single Family Housing	1.36355e+006	241.3490	0.0204	2.4700e-003	242.5965
Single Family Housing	1.48316e+006	262.5199	0.0222	2.6900e-003	263.8769
Single Family Housing	1.79414e+006	317.5644	0.0269	3.2600e-003	319.2059
Single Family Housing	1.80211e+006	318.9758	0.0270	3.2700e-003	320.6246
Single Family Housing	103661	18.3482	1.5500e-003	1.9000e-004	18.4430

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	191375	33.8735	2.8600e-003	3.5000e-004	34.0486
Single Family Housing	2.59951e+006	460.1156	0.0389	4.7200e-003	462.4938
Single Family Housing	287063	50.8103	4.3000e-003	5.2000e-004	51.0729
Single Family Housing	342880	60.6901	5.1300e-003	6.2000e-004	61.0038
Single Family Housing	510333	90.3294	7.6400e-003	9.3000e-004	90.7963
Single Family Housing	526281	93.1522	7.8800e-003	9.5000e-004	93.6337
Single Family Housing	837266	148.1967	0.0125	1.5200e-003	148.9627
Total		6,660.9400	0.5633	0.0683	6,695.3696

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	1.32545e+006	234.6056	0.0198	2.4000e-003	235.8183
Apartments High Rise	1.79882e+006	318.3934	0.0269	3.2600e-003	320.0391
Apartments High Rise	2.74557e+006	485.9688	0.0411	4.9800e-003	488.4807
Apartments High Rise	426037	75.4090	6.3800e-003	7.7000e-004	75.7987

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.80021e+006	318.6385	0.0270	3.2700e-003	320.2855
Condo/Townhouse	692388	122.5533	0.0104	1.2600e-003	123.1867
Convenience Market with Gas Pumps	396000	70.0923	5.9300e-003	7.2000e-004	70.4546
Elementary School	5.92416e+006	1,048.5812	0.0887	0.0108	1,054.0011
Free-Standing Discount store	257400	45.5600	3.8500e-003	4.7000e-004	45.7955
Junior High School	239826	42.4494	3.5900e-003	4.4000e-004	42.6688
Office Park	6.1985e+006	1,097.1396	0.0928	0.0113	1,102.8105
Regional Shopping Center	1.386e+006	245.3231	0.0208	2.5100e-003	246.5912
Regional Shopping Center	431640	76.4006	6.4600e-003	7.8000e-004	76.7955
Single Family Housing	1.04459e+006	184.8931	0.0156	1.9000e-003	185.8488
Single Family Housing	1.12433e+006	199.0070	0.0168	2.0400e-003	200.0357
Single Family Housing	1.36355e+006	241.3490	0.0204	2.4700e-003	242.5965
Single Family Housing	1.48316e+006	262.5199	0.0222	2.6900e-003	263.8769
Single Family Housing	1.79414e+006	317.5644	0.0269	3.2600e-003	319.2059
Single Family Housing	1.80211e+006	318.9758	0.0270	3.2700e-003	320.6246
Single Family Housing	103661	18.3482	1.5500e-003	1.9000e-004	18.4430
Single Family Housing	191375	33.8735	2.8600e-003	3.5000e-004	34.0486
Single Family Housing	2.59951e+006	460.1156	0.0389	4.7200e-003	462.4938

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	287063	50.8103	4.3000e-003	5.2000e-004	51.0729
Single Family Housing	342880	60.6901	5.1300e-003	6.2000e-004	61.0038
Single Family Housing	510333	90.3294	7.6400e-003	9.3000e-004	90.7963
Single Family Housing	526281	93.1522	7.8800e-003	9.5000e-004	93.6337
Single Family Housing	837266	148.1967	0.0125	1.5200e-003	148.9627
Total		6,660.9400	0.5633	0.0683	6,695.3696

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	35.9000	12.2958	33.6503	0.0779		1.1264	1.1264		1.1264	1.1264	0.0000	13,905.1248	13,905.1248	0.3103	0.2541	13,988.5937
Unmitigated	35.9000	12.2958	33.6503	0.0779		1.1264	1.1264		1.1264	1.1264	0.0000	13,905.1248	13,905.1248	0.3103	0.2541	13,988.5937

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	6.1642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	27.4804					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.4003	11.9663	5.0921	0.0764		0.9675	0.9675		0.9675	0.9675	0.0000	13,858.30 46	13,858.30 46	0.2656	0.2541	13,940.65 76
Landscaping	0.8551	0.3294	28.5582	1.5100e-003		0.1589	0.1589		0.1589	0.1589	0.0000	46.8203	46.8203	0.0446	0.0000	47.9361
Total	35.9000	12.2958	33.6503	0.0779		1.1264	1.1264		1.1264	1.1264	0.0000	13,905.12 48	13,905.12 48	0.3103	0.2541	13,988.59 37

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	6.1642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	27.4804					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.4003	11.9663	5.0921	0.0764		0.9675	0.9675		0.9675	0.9675	0.0000	13,858.30 46	13,858.30 46	0.2656	0.2541	13,940.65 76
Landscaping	0.8551	0.3294	28.5582	1.5100e-003		0.1589	0.1589		0.1589	0.1589	0.0000	46.8203	46.8203	0.0446	0.0000	47.9361
Total	35.9000	12.2958	33.6503	0.0779		1.1264	1.1264		1.1264	1.1264	0.0000	13,905.12 48	13,905.12 48	0.3103	0.2541	13,988.59 37

7.0 Water Detail

7.1 Mitigation Measures Water

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	699.7230	12.2748	0.2946	1,094.3919
Unmitigated	699.7230	12.2748	0.2946	1,094.3919

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	103.986 / 65.5563	173.1948	3.4002	0.0814	282.4711
City Park	0 / 117.003	72.4840	6.1300e-003	7.4000e-004	72.8586
Condo/Townhouse	32.8376 / 20.702	54.6931	1.0738	0.0257	89.2014
Convenience Market with Gas Pumps	3.70363 / 2.26996	6.1284	0.1211	2.9000e-003	10.0202
Elementary School	2.30303 / 5.92207	6.6051	0.0755	1.8300e-003	9.0396
Free-Standing Discount store	2.40736 / 1.47548	3.9835	0.0787	1.8900e-003	6.5132
Junior High School	0.727272 / 1.87013	2.0858	0.0239	5.8000e-004	2.8546
Office Park	97.7536 / 59.9135	161.7529	3.1964	0.0766	264.4743
Regional Shopping Center	16.9996 / 10.4191	28.1293	0.5559	0.0133	45.9929
Single Family Housing	114.476 / 72.1694	190.6662	3.7432	0.0897	310.9659
Total		699.7230	12.2748	0.2946	1,094.3919

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	103.986 / 65.5563	173.1948	3.4002	0.0814	282.4711
City Park	0 / 117.003	72.4840	6.1300e-003	7.4000e-004	72.8586
Condo/Townhouse	32.8376 / 20.702	54.6931	1.0738	0.0257	89.2014
Convenience Market with Gas Pumps	3.70363 / 2.26996	6.1284	0.1211	2.9000e-003	10.0202
Elementary School	2.30303 / 5.92207	6.6051	0.0755	1.8300e-003	9.0396
Free-Standing Discount store	2.40736 / 1.47548	3.9835	0.0787	1.8900e-003	6.5132
Junior High School	0.727272 / 1.87013	2.0858	0.0239	5.8000e-004	2.8546
Office Park	97.7536 / 59.9135	161.7529	3.1964	0.0766	264.4743
Regional Shopping Center	16.9996 / 10.4191	28.1293	0.5559	0.0133	45.9929
Single Family Housing	114.476 / 72.1694	190.6662	3.7432	0.0897	310.9659
Total		699.7230	12.2748	0.2946	1,094.3919

8.0 Waste Detail

8.1 Mitigation Measures Waste

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	822.9436	48.6346	0.0000	2,038,808 0
Unmitigated	822.9436	48.6346	0.0000	2,038,808 0

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	734.16	149.0279	8.8073	0.0000	369.2102
City Park	8.45	1.7153	0.1014	0.0000	4.2495
Condo/Townhouse	231.84	47.0614	2.7813	0.0000	116.5927
Convenience Market with Gas Pumps	150.26	30.5014	1.8026	0.0000	75.5660
Elementary School	173.38	35.1946	2.0799	0.0000	87.1931
Free-Standing Discount store	139.77	28.3721	1.6767	0.0000	70.2906
Junior High School	54.75	11.1138	0.6568	0.0000	27.5339
Office Park	511.5	103.8299	6.1362	0.0000	257.2341
Regional Shopping Center	240.98	48.9168	2.8909	0.0000	121.1892
Single Family Housing	1809	367.2107	21.7015	0.0000	909.7489
Total		822.9436	48.6346	0.0000	2,038.8080

VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	734.16	149.0279	8.8073	0.0000	369.2102
City Park	8.45	1.7153	0.1014	0.0000	4.2495
Condo/Townhouse	231.84	47.0614	2.7813	0.0000	116.5927
Convenience Market with Gas Pumps	150.26	30.5014	1.8026	0.0000	75.5660
Elementary School	173.38	35.1946	2.0799	0.0000	87.1931
Free-Standing Discount store	139.77	28.3721	1.6767	0.0000	70.2906
Junior High School	54.75	11.1138	0.6568	0.0000	27.5339
Office Park	511.5	103.8299	6.1362	0.0000	257.2341
Regional Shopping Center	240.98	48.9168	2.8909	0.0000	121.1892
Single Family Housing	1809	367.2107	21.7015	0.0000	909.7489
Total		822.9436	48.6346	0.0000	2,038.8080

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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VST_Dummy_Run - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**VST_Operations
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	550.00	1000sqft	12.63	550,000.00	0
Elementary School	950.00	Student	20.00	871,200.00	0
Junior High School	300.00	Student	0.81	35,268.51	0
City Park	5.30	Acre	5.30	230,868.00	0
City Park	8.00	Acre	8.00	348,480.00	0
City Park	5.80	Acre	5.80	252,648.00	0
City Park	7.30	Acre	7.30	317,988.00	0
City Park	1.40	Acre	1.40	60,984.00	0
City Park	4.50	Acre	4.50	196,020.00	0
City Park	15.50	Acre	15.50	675,180.00	0
City Park	4.80	Acre	4.80	209,088.00	0
City Park	45.60	Acre	45.60	1,986,336.00	0
Apartments High Rise	696.00	Dwelling Unit	24.79	696,000.00	1991
Apartments High Rise	456.00	Dwelling Unit	16.24	456,000.00	1304
Apartments High Rise	108.00	Dwelling Unit	3.00	75,600.00	309
Apartments High Rise	336.00	Dwelling Unit	11.97	336,000.00	961
Condo/Townhouse	364.00	Dwelling Unit	22.75	436,800.00	1041
Condo/Townhouse	140.00	Dwelling Unit	8.61	168,000.00	400
Single Family Housing	43.00	Dwelling Unit	17.14	139,750.00	123
Single Family Housing	66.00	Dwelling Unit	10.50	125,400.00	189
Single Family Housing	36.00	Dwelling Unit	4.13	43,200.00	103
Single Family Housing	226.00	Dwelling Unit	37.83	339,000.00	646

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Single Family Housing	64.00	Dwelling Unit	7.33	76,800.00	183
Single Family Housing	141.00	Dwelling Unit	23.60	211,500.00	403
Single Family Housing	24.00	Dwelling Unit	2.75	28,800.00	69
Single Family Housing	186.00	Dwelling Unit	43.76	511,500.00	532
Single Family Housing	131.00	Dwelling Unit	15.00	18,012.00	375
Single Family Housing	105.00	Dwelling Unit	41.86	341,250.00	300
Single Family Housing	171.00	Dwelling Unit	40.24	470,250.00	489
Single Family Housing	326.00	Dwelling Unit	54.57	489,000.00	932
Single Family Housing	13.00	Dwelling Unit	2.07	24,700.00	37
Single Family Housing	225.00	Dwelling Unit	25.78	270,000.00	644
Convenience Market with Gas Pumps	50.00	1000sqft	1.15	50,000.00	0
Free-Standing Discount store	32.50	1000sqft	0.75	32,500.00	0
Regional Shopping Center	175.00	1000sqft	4.02	175,000.00	0
Regional Shopping Center	54.50	1000sqft	1.25	54,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2035
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	390.22	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor taken from newer CalEEmod 2035 forecast, anticipated first day of operations is 2039, 2035 based on CalEEmod parameters

Land Use - Acreage and sq footage taken from project description and modeling data

Construction Phase - Operations modeling only

Off-road Equipment - defaults

Off-road Equipment - ops only

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT -

Grading - ...

Architectural Coating - Sq ft per phase
 SJVAPCD VOC limit = 50 g/L

Vehicle Trips - VST VMT = 53,226 Daily
 19,442,090 Yearly VMT

Woodstoves - No fireplaces or woodstoves installed

Area Coating - SJVAPCD VOC limit = 50g/L

Energy Use - All residential units NG free and get 100% of energy from solar

Water And Wastewater - From water and wastewater study: 1.2 million gallons per day = 438 million gallons/year
 Percentage per land use type for total 438 mgpd from CalEEmod defaults

Solid Waste -

Land Use Change -

Construction Off-road Equipment Mitigation - Tier 4 engines

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - SJVAPCD VOC limit

Energy Mitigation - all energy star appliances

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	50
tblAreaCoating	Area_EF_Residential_Exterior	150	50
tblAreaCoating	Area_EF_Residential_Interior	150	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	360.00	0.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	149.25	0.00
tblEnergyUse	T24E	149.52	0.00
tblEnergyUse	T24E	209.15	0.00
tblEnergyUse	T24NG	8,057.49	0.00
tblEnergyUse	T24NG	12,903.77	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	NumberGas	877.80	0.00
tblFireplaces	NumberGas	277.20	0.00
tblFireplaces	NumberGas	966.35	0.00
tblFireplaces	NumberNoFireplace	718.20	0.00
tblFireplaces	NumberNoFireplace	226.80	0.00
tblFireplaces	NumberNoFireplace	790.65	0.00
tblLandUse	LandUseSquareFeet	79,423.20	871,200.00
tblLandUse	LandUseSquareFeet	108,000.00	75,600.00
tblLandUse	LandUseSquareFeet	140,000.00	168,000.00
tblLandUse	LandUseSquareFeet	364,000.00	436,800.00
tblLandUse	LandUseSquareFeet	189,000.00	341,250.00
tblLandUse	LandUseSquareFeet	23,400.00	24,700.00
tblLandUse	LandUseSquareFeet	235,800.00	18,012.00
tblLandUse	LandUseSquareFeet	253,800.00	211,500.00
tblLandUse	LandUseSquareFeet	307,800.00	470,250.00
tblLandUse	LandUseSquareFeet	334,800.00	511,500.00
tblLandUse	LandUseSquareFeet	405,000.00	270,000.00

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	406,800.00	339,000.00
tblLandUse	LandUseSquareFeet	43,200.00	28,800.00
tblLandUse	LandUseSquareFeet	586,800.00	489,000.00
tblLandUse	LandUseSquareFeet	64,800.00	43,200.00
tblLandUse	LandUseSquareFeet	77,400.00	139,750.00
tblLandUse	LandUseSquareFeet	115,200.00	76,800.00
tblLandUse	LandUseSquareFeet	118,800.00	125,400.00
tblLandUse	LotAcreage	1.82	20.00
tblLandUse	LotAcreage	1.74	3.00
tblLandUse	LotAcreage	5.42	11.97
tblLandUse	LotAcreage	7.35	16.24
tblLandUse	LotAcreage	11.23	24.79
tblLandUse	LotAcreage	8.75	8.61
tblLandUse	LotAcreage	34.09	41.86
tblLandUse	LotAcreage	4.22	2.07
tblLandUse	LotAcreage	42.53	15.00
tblLandUse	LotAcreage	45.78	23.60
tblLandUse	LotAcreage	55.52	40.24
tblLandUse	LotAcreage	60.39	43.76
tblLandUse	LotAcreage	73.05	25.78
tblLandUse	LotAcreage	73.38	37.83
tblLandUse	LotAcreage	7.79	2.75
tblLandUse	LotAcreage	105.84	54.57
tblLandUse	LotAcreage	11.69	4.13
tblLandUse	LotAcreage	13.96	17.14
tblLandUse	LotAcreage	20.78	7.33
tblLandUse	LotAcreage	21.43	10.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblProjectCharacteristics	CO2IntensityFactor	203.98	390.22
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	1.25
tblVehicleTrips	HO_TTP	35.70	0.00
tblVehicleTrips	HS_TL	7.30	1.24
tblVehicleTrips	HS_TTP	17.40	0.00
tblVehicleTrips	HW_TL	10.80	0.00
tblVehicleTrips	HW_TL	10.80	1.24
tblVehicleTrips	HW_TTP	46.90	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	85.30
tblVehicleTrips	ST_TR	624.20	0.00
tblVehicleTrips	ST_TR	70.76	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	85.30
tblVehicleTrips	SU_TR	624.20	0.00
tblVehicleTrips	SU_TR	60.21	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	7.32	85.30
tblVehicleTrips	WD_TR	624.20	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	53.12	0.00
tblVehicleTrips	WD_TR	2.13	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	103,985,824.89	62,178,982.00
tblWater	IndoorWaterUseRate	32,837,628.91	19,635,468.00
tblWater	IndoorWaterUseRate	3,703,626.07	2,214,607.00
tblWater	IndoorWaterUseRate	2,303,028.00	1,377,110.00
tblWater	IndoorWaterUseRate	2,407,356.95	1,439,494.00
tblWater	IndoorWaterUseRate	727,272.00	434,877.00
tblWater	IndoorWaterUseRate	97,753,561.40	58,452,361.00
tblWater	IndoorWaterUseRate	16,999,643.68	10,165,045.00
tblWater	IndoorWaterUseRate	114,475,623.02	68,451,423.00
tblWater	OutdoorWaterUseRate	65,556,280.91	39,199,793.00
tblWater	OutdoorWaterUseRate	117,003,468.54	69,962,965.00
tblWater	OutdoorWaterUseRate	20,701,983.45	12,378,882.00
tblWater	OutdoorWaterUseRate	2,269,964.37	1,357,340.00
tblWater	OutdoorWaterUseRate	5,922,072.00	3,541,140.00
tblWater	OutdoorWaterUseRate	1,475,476.84	882,271.00
tblWater	OutdoorWaterUseRate	1,870,128.00	1,118,255.00
tblWater	OutdoorWaterUseRate	59,913,473.11	35,825,641.00
tblWater	OutdoorWaterUseRate	10,419,136.45	6,230,189.00
tblWater	OutdoorWaterUseRate	72,169,414.51	43,154,158.00
tblWoodstoves	NumberCatalytic	56.00	0.00
tblWoodstoves	NumberCatalytic	31.36	0.00

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169
Energy	1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6185	12,335.6185	0.2364	0.2262	12,408.9230
Mobile	38.9383	79.6432	321.1551	0.4079	41.2121	0.3995	41.6116	11.0122	0.3753	11.3874		41,873.0606	41,873.0606	4.4297	4.5440	43,337.9217
Total	211.4067	93.5832	647.1033	0.4864	41.2121	2.9461	44.1583	11.0122	2.9220	13.9341	0.0000	54,782.1291	54,782.1291	5.2128	4.7702	56,333.9615

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	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169
Energy	1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6185	12,335.6185	0.2364	0.2262	12,408.9230
Mobile	38.9383	79.6432	321.1551	0.4079	41.2121	0.3995	41.6116	11.0122	0.3753	11.3874		41,873.0606	41,873.0606	4.4297	4.5440	43,337.9217
Total	211.4067	93.5832	647.1033	0.4864	41.2121	2.9461	44.1583	11.0122	2.9220	13.9341	0.0000	54,782.1291	54,782.1291	5.2128	4.7702	56,333.9615

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2025	12/31/2024	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Reduce Vehicle Speed on Unpaved Roads

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
City Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Condo/Townhouse	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Convenience Market with Gas Pumps	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Elementary School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Free-Standing Discount store	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Junior High School	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Office Park	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Regional Shopping Center	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045
Single Family Housing	0.572265	0.048880	0.155752	0.113382	0.019331	0.005258	0.013588	0.047675	0.000843	0.000448	0.018651	0.001882	0.002045

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
NaturalGas Mitigated	1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6185	12,335.6185	0.2364	0.2262	12,408.9230
NaturalGas Unmitigated	1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6185	12,335.6185	0.2364	0.2262	12,408.9230

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Convenience Market with Gas Pumps	1453.42	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Elementary School	59384.8	0.6404	5.8220	4.8905	0.0349		0.4425	0.4425		0.4425	0.4425		6,986.4484	6,986.4484	0.1339	0.1281	7,027.9653
Free-Standing Discount store	944.726	0.0102	0.0926	0.0778	5.6000e-004		7.0400e-003	7.0400e-003		7.0400e-003	7.0400e-003		111.1442	111.1442	2.1300e-003	2.0400e-003	111.8047
Junior High School	2404.06	0.0259	0.2357	0.1980	1.4100e-003		0.0179	0.0179		0.0179	0.0179		282.8302	282.8302	5.4200e-003	5.1900e-003	284.5109
Office Park	33994.5	0.3666	3.3328	2.7996	0.0200		0.2533	0.2533		0.2533	0.2533		3,999.3554	3,999.3554	0.0767	0.0733	4,023.1215
Regional Shopping Center	1584.23	0.0171	0.1553	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118		186.3803	186.3803	3.5700e-003	3.4200e-003	187.4879
Regional Shopping Center	5086.99	0.0549	0.4987	0.4189	2.9900e-003		0.0379	0.0379		0.0379	0.0379		598.4690	598.4690	0.0115	0.0110	602.0254
Single Family Housing	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		1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6186	12,335.6186	0.2364	0.2262	12,408.9230

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	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
City Park	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
Condo/Townhouse	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
Convenience Market with Gas Pumps	1.45342	0.0157	0.1425	0.1197	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.9911	170.9911	3.2800e-003	3.1300e-003	172.0073
Elementary School	59.3848	0.6404	5.8220	4.8905	0.0349		0.4425	0.4425		0.4425	0.4425		6,986.4484	6,986.4484	0.1339	0.1281	7,027.9653
Free-Standing Discount store	0.944726	0.0102	0.0926	0.0778	5.6000e-004		7.0400e-003	7.0400e-003		7.0400e-003	7.0400e-003		111.1442	111.1442	2.1300e-003	2.0400e-003	111.8047
Junior High School	2.40406	0.0259	0.2357	0.1980	1.4100e-003		0.0179	0.0179		0.0179	0.0179		282.8302	282.8302	5.4200e-003	5.1900e-003	284.5109
Office Park	33.9945	0.3666	3.3328	2.7996	0.0200		0.2533	0.2533		0.2533	0.2533		3,999.3554	3,999.3554	0.0767	0.0733	4,023.1215
Regional Shopping Center	1.58423	0.0171	0.1553	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118		186.3803	186.3803	3.5700e-003	3.4200e-003	187.4879
Regional Shopping Center	5.08699	0.0549	0.4987	0.4189	2.9900e-003		0.0379	0.0379		0.0379	0.0379		598.4690	598.4690	0.0115	0.0110	602.0254
Single Family Housing	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		1.1308	10.2797	8.6349	0.0617		0.7813	0.7813		0.7813	0.7813		12,335.6186	12,335.6186	0.2364	0.2262	12,408.9230

6.0 Area Detail

6.1 Mitigation Measures Area

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169
Unmitigated	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169

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	11.2588					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	150.5774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.5014	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654		573.4499	573.4499	0.5467		587.1169
Total	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	11.2588					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	150.5774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.5014	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654		573.4499	573.4499	0.5467		587.1169
Total	171.3376	3.6603	317.3133	0.0168		1.7654	1.7654		1.7654	1.7654	0.0000	573.4499	573.4499	0.5467	0.0000	587.1169

7.0 Water Detail

7.1 Mitigation Measures Water

VST_Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**UCP Operations
Merced County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	240.00	1000sqft	5.51	240,000.00	0
University/College (4yr)	10,000.00	Student	42.19	1,837,974.68	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments High Rise	1,362.00	Dwelling Unit	21.97	1,362,000.00	3895
Condo/Townhouse	446.00	Dwelling Unit	27.88	446,000.00	1276
Single Family Housing	3,700.00	Dwelling Unit	1,201.30	6,660,000.00	10582
Convenience Market (24 hour)	203.00	1000sqft	4.66	203,000.00	0
Regional Shopping Center	420.00	1000sqft	9.64	420,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2050
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use -
 Construction Phase - 20 year buildout
 Grading - acres of project
 Vehicle Trips - Yearly VMT = 65,125,855

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Woodstoves - Elimination of wood burning fireplaces based on project location

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	15,500.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblGrading	AcresOfGrading	0.00	1,023.00
tblVehicleTrips	HO_TL	7.50	1.76
tblVehicleTrips	HS_TL	7.30	1.77
tblVehicleTrips	HW_TL	10.80	1.77
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	226.20
tblVehicleTrips	ST_TR	1,084.17	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	ST_TR	1.30	0.00
tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	226.20
tblVehicleTrips	SU_TR	901.17	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	226.20

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	762.28	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblVehicleTrips	WD_TR	1.56	0.00
tblWoodstoves	NumberCatalytic	21.97	0.00
tblWoodstoves	NumberCatalytic	27.88	0.00
tblWoodstoves	NumberCatalytic	1,201.30	0.00
tblWoodstoves	NumberNoncatalytic	21.97	0.00
tblWoodstoves	NumberNoncatalytic	27.88	0.00
tblWoodstoves	NumberNoncatalytic	1,201.30	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated 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					
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

		Highest	
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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	54.9697	2.5312	41.6950	0.0153		0.3937	0.3937		0.3937	0.3937	0.0000	2,453.1083	2,453.1083	0.1098	0.0438	2,468.8900
Energy	0.8879	7.7408	4.3557	0.0484		0.6134	0.6134		0.6134	0.6134	0.0000	14,812.1316	14,812.1316	1.1432	0.2793	14,923.9273
Mobile	13.8426	31.8473	117.0950	0.1940	21.6161	0.1524	21.7685	5.7843	0.1437	5.9280	0.0000	18,045.0591	18,045.0591	1.2621	1.7237	18,590.2702
Waste						0.0000	0.0000		0.0000	0.0000	1,573.6002	0.0000	1,573.6002	92.9971	0.0000	3,898.5278
Water						0.0000	0.0000		0.0000	0.0000	148.8183	388.6684	537.4867	15.3479	0.3685	1,031.0088
Total	69.7001	42.1194	163.1457	0.2577	21.6161	1.1596	22.7757	5.7843	1.1509	6.9352	1,722.4184	35,698.9674	37,421.3858	110.8601	2.4152	40,912.6241

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	54.9697	2.5312	41.6950	0.0153		0.3937	0.3937		0.3937	0.3937	0.0000	2,453.1083	2,453.1083	0.1098	0.0438	2,468.8900
Energy	0.8879	7.7408	4.3557	0.0484		0.6134	0.6134		0.6134	0.6134	0.0000	14,812.1316	14,812.1316	1.1432	0.2793	14,923.9273
Mobile	13.8426	31.8473	117.0950	0.1940	21.6161	0.1524	21.7685	5.7843	0.1437	5.9280	0.0000	18,045.0591	18,045.0591	1.2621	1.7237	18,590.2702
Waste						0.0000	0.0000		0.0000	0.0000	1,573.6002	0.0000	1,573.6002	92.9971	0.0000	3,898.5278
Water						0.0000	0.0000		0.0000	0.0000	148.8183	388.6684	537.4867	15.3479	0.3685	1,031.0088
Total	69.7001	42.1194	163.1457	0.2577	21.6161	1.1596	22.7757	5.7843	1.1509	6.9352	1,722.4184	35,698.9674	37,421.3858	110.8601	2.4152	40,912.6241

	ROG	NOx	CO	SO2	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	Grading	Grading	7/13/2041	7/12/2041	5	0	

Acres of Grading (Site Preparation Phase): 0

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 1023

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Mitigated	13.8426	31.8473	117.0950	0.1940	21.6161	0.1524	21.7685	5.7843	0.1437	5.9280	0.0000	18,045.0591	18,045.0591	1.2621	1.7237	18,590.2702
Unmitigated	13.8426	31.8473	117.0950	0.1940	21.6161	0.1524	21.7685	5.7843	0.1437	5.9280	0.0000	18,045.0591	18,045.0591	1.2621	1.7237	18,590.2702

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	100,885.20	100,885.20	100,885.20	57,679,823	57,679,823
Convenience Market (24 hour)	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
University/College (4yr)	0.00	0.00	0.00		
Total	100,885.20	100,885.20	100,885.20	57,679,823	57,679,823

4.3 Trip Type Information

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	1.77	1.77	1.76	46.90	17.40	35.70	86	11	3
Convenience Market (24 hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
University/College (4yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
City Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Condo/Townhouse	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Convenience Market (24 hour)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Office Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Regional Shopping Center	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Single Family Housing	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
University/College (4yr)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,025.3965	6,025.3965	0.9748	0.1182	6,084.9770
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,025.3965	6,025.3965	0.9748	0.1182	6,084.9770
NaturalGas Mitigated	0.8879	7.7408	4.3557	0.0484		0.6134	0.6134		0.6134	0.6134	0.0000	8,786.7351	8,786.7351	0.1684	0.1611	8,838.9503
NaturalGas Unmitigated	0.8879	7.7408	4.3557	0.0484		0.6134	0.6134		0.6134	0.6134	0.0000	8,786.7351	8,786.7351	0.1684	0.1611	8,838.9503

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	1.6045e+007	0.0865	0.7393	0.3146	4.7200e-003		0.0598	0.0598		0.0598	0.0598	0.0000	856.2238	856.2238	0.0164	0.0157	861.3119
City Park	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	0.0000
Condo/Townhouse	7.41554e+006	0.0400	0.3417	0.1454	2.1800e-003		0.0276	0.0276		0.0276	0.0276	0.0000	395.7214	395.7214	7.5800e-003	7.2500e-003	398.0730
Convenience Market (24 hour)	2.15383e+006	0.0116	0.1056	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003	0.0000	114.9366	114.9366	2.2000e-003	2.1100e-003	115.6196
Office Park	5.4144e+006	0.0292	0.2654	0.2230	1.5900e-003		0.0202	0.0202		0.0202	0.0202	0.0000	288.9330	288.9330	5.5400e-003	5.3000e-003	290.6500
Regional Shopping Center	4.4562e+006	0.0240	0.2184	0.1835	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.7998	237.7998	4.5600e-003	4.3600e-003	239.2129
Single Family Housing	8.89389e+007	0.4796	4.0982	1.7439	0.0262		0.3313	0.3313		0.3313	0.3313	0.0000	4,746.1203	4,746.1203	0.0910	0.0870	4,774.3241
University/College (4yr)	4.02333e+007	0.2169	1.9722	1.6567	0.0118		0.1499	0.1499		0.1499	0.1499	0.0000	2,147.0003	2,147.0003	0.0412	0.0394	2,159.7588
Total		0.8879	7.7409	4.3557	0.0484		0.6134	0.6134		0.6134	0.6134	0.0000	8,786.7351	8,786.7351	0.1684	0.1611	8,838.9503

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Apartments High Rise	1.6045e+007	0.0865	0.7393	0.3146	4.7200e-003		0.0598	0.0598		0.0598	0.0598	0.0000	856.2238	856.2238	0.0164	0.0157	861.3119
City Park	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	0.0000
Condo/Townhouse	7.41554e+006	0.0400	0.3417	0.1454	2.1800e-003		0.0276	0.0276		0.0276	0.0276	0.0000	395.7214	395.7214	7.5800e-003	7.2500e-003	398.0730
Convenience Market (24 hour)	2.15383e+006	0.0116	0.1056	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003	0.0000	114.9366	114.9366	2.2000e-003	2.1100e-003	115.6196
Office Park	5.4144e+006	0.0292	0.2654	0.2230	1.5900e-003		0.0202	0.0202		0.0202	0.0202	0.0000	288.9330	288.9330	5.5400e-003	5.3000e-003	290.6500
Regional Shopping Center	4.4562e+006	0.0240	0.2184	0.1835	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.7998	237.7998	4.5600e-003	4.3600e-003	239.2129
Single Family Housing	8.89389e+007	0.4796	4.0982	1.7439	0.0262		0.3313	0.3313		0.3313	0.3313	0.0000	4,746.1203	4,746.1203	0.0910	0.0870	4,774.3241
University/College (4yr)	4.02333e+007	0.2169	1.9722	1.6567	0.0118		0.1499	0.1499		0.1499	0.1499	0.0000	2,147.0003	2,147.0003	0.0412	0.0394	2,159.7588
Total		0.8879	7.7409	4.3557	0.0484		0.6134	0.6134		0.6134	0.6134	0.0000	8,786.7351	8,786.7351	0.1684	0.1611	8,838.9503

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	5.3728e+006	497.1121	0.0804	9.7500e-003	502.0276
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2.20575e+006	204.0844	0.0330	4.0000e-003	206.1024
Convenience Market (24 hour)	1.60776e+006	148.7560	0.0241	2.9200e-003	150.2270
Office Park	2.7048e+006	250.2583	0.0405	4.9100e-003	252.7329
Regional Shopping Center	3.3264e+006	307.7711	0.0498	6.0400e-003	310.8144
Single Family Housing	2.95037e+007	2,729.7892	0.4416	0.0535	2,756.7819
University/College (4yr)	2.04015e+007	1,887.6255	0.3054	0.0370	1,906.2907
Total		6,025.3965	0.9748	0.1182	6,084.9770

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	5.3728e+006	497.1121	0.0804	9.7500e-003	502.0276
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2.20575e+006	204.0844	0.0330	4.0000e-003	206.1024
Convenience Market (24 hour)	1.60776e+006	148.7560	0.0241	2.9200e-003	150.2270
Office Park	2.7048e+006	250.2583	0.0405	4.9100e-003	252.7329
Regional Shopping Center	3.3264e+006	307.7711	0.0498	6.0400e-003	310.8144
Single Family Housing	2.95037e+007	2,729.7892	0.4416	0.0535	2,756.7819
University/College (4yr)	2.04015e+007	1,887.6255	0.3054	0.0370	1,906.2907
Total		6,025.3965	0.9748	0.1182	6,084.9770

6.0 Area Detail

6.1 Mitigation Measures Area

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	tons/yr										MT/yr					
Mitigated	54.9697	2.5312	41.6950	0.0153		0.3937	0.3937		0.3937	0.3937	0.0000	2,453.1083	2,453.1083	0.1098	0.0438	2,468.8900
Unmitigated	54.9697	2.5312	41.6950	0.0153		0.3937	0.3937		0.3937	0.3937	0.0000	2,453.1083	2,453.1083	0.1098	0.0438	2,468.8900

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	9.8258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.6757					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2411	2.0604	0.8767	0.0132		0.1666	0.1666		0.1666	0.1666	0.0000	2,386.1063	2,386.1063	0.0457	0.0438	2,400.2858
Landscaping	1.2270	0.4709	40.8183	2.1700e-003		0.2272	0.2272		0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043
Total	54.9697	2.5312	41.6950	0.0153		0.3937	0.3937		0.3937	0.3937	0.0000	2,453.1083	2,453.1083	0.1098	0.0438	2,468.8900

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	9.8258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.6757					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2411	2.0604	0.8767	0.0132		0.1666	0.1666		0.1666	0.1666	0.0000	2,386.1063	2,386.1063	0.0457	0.0438	2,400.2858
Landscaping	1.2270	0.4709	40.8183	2.1700e-003		0.2272	0.2272		0.2272	0.2272	0.0000	67.0019	67.0019	0.0641	0.0000	68.6043
Total	54.9697	2.5312	41.6950	0.0153		0.3937	0.3937		0.3937	0.3937	0.0000	2,453.1083	2,453.1083	0.1098	0.0438	2,468.8900

7.0 Water Detail

7.1 Mitigation Measures Water

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	537.4867	15.3479	0.3685	1,031.0088
Unmitigated	537.4867	15.3479	0.3685	1,031.0088

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	88.7398 / 55.9446	90.6970	2.9017	0.0695	183.9516
City Park	0 / 160.85	52.0886	8.4300e-003	1.0200e-003	52.6036
Condo/Townhouse	29.0587 / 18.3196	29.6996	0.9502	0.0228	60.2367
Convenience Market (24 hour)	15.0367 / 9.21606	15.2830	0.4917	0.0118	31.0839
Office Park	42.6561 / 26.1441	43.3547	1.3948	0.0334	88.1786
Regional Shopping Center	31.1105 / 19.0677	31.6200	1.0173	0.0244	64.3115
Single Family Housing	241.07 / 151.979	246.3869	7.8828	0.1888	499.7216
University/College (4yr)	21.411 / 33.489	28.3569	0.7012	0.0169	50.9212
Total		537.4867	15.3479	0.3685	1,031.0088

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	88.7398 / 55.9446	90.6970	2.9017	0.0695	183.9516
City Park	0 / 160.85	52.0886	8.4300e-003	1.0200e-003	52.6036
Condo/Townhouse	29.0587 / 18.3196	29.6996	0.9502	0.0228	60.2367
Convenience Market (24 hour)	15.0367 / 9.21606	15.2830	0.4917	0.0118	31.0839
Office Park	42.6561 / 26.1441	43.3547	1.3948	0.0334	88.1786
Regional Shopping Center	31.1105 / 19.0677	31.6200	1.0173	0.0244	64.3115
Single Family Housing	241.07 / 151.979	246.3869	7.8828	0.1888	499.7216
University/College (4yr)	21.411 / 33.489	28.3569	0.7012	0.0169	50.9212
Total		537.4867	15.3479	0.3685	1,031.0088

8.0 Waste Detail

8.1 Mitigation Measures Waste

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,573.600 2	92.9971	0.0000	3,898.527 8
Unmitigated	1,573.600 2	92.9971	0.0000	3,898.527 8

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	626.52	127.1779	7.5160	0.0000	315.0779
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Condo/Townhouse	205.16	41.6456	2.4612	0.0000	103.1753
Convenience Market (24 hour)	610.06	123.8367	7.3185	0.0000	306.8001
Office Park	223.2	45.3076	2.6776	0.0000	112.2476
Regional Shopping Center	441	89.5190	5.2904	0.0000	221.7796
Single Family Housing	3809.52	773.2981	45.7006	0.0000	1,915.8134
University/College (4yr)	1825	370.4585	21.8935	0.0000	917.7953
Total		1,573.6002	92.9971	0.0000	3,898.5278

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	626.52	127.1779	7.5160	0.0000	315.0779
City Park	11.61	2.3567	0.1393	0.0000	5.8387
Condo/Townhouse	205.16	41.6456	2.4612	0.0000	103.1753
Convenience Market (24 hour)	610.06	123.8367	7.3185	0.0000	306.8001
Office Park	223.2	45.3076	2.6776	0.0000	112.2476
Regional Shopping Center	441	89.5190	5.2904	0.0000	221.7796
Single Family Housing	3809.52	773.2981	45.7006	0.0000	1,915.8134
University/College (4yr)	1825	370.4585	21.8935	0.0000	917.7953
Total		1,573.6002	92.9971	0.0000	3,898.5278

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

UCP Operations - Merced County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

Equipment Type	Number
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11.0 Vegetation

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**UCP Operations
Merced County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	240.00	1000sqft	5.51	240,000.00	0
University/College (4yr)	10,000.00	Student	42.19	1,837,974.68	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments High Rise	1,362.00	Dwelling Unit	21.97	1,362,000.00	3895
Condo/Townhouse	446.00	Dwelling Unit	27.88	446,000.00	1276
Single Family Housing	3,700.00	Dwelling Unit	1,201.30	6,660,000.00	10582
Convenience Market (24 hour)	203.00	1000sqft	4.66	203,000.00	0
Regional Shopping Center	420.00	1000sqft	9.64	420,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2050
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use -
 Construction Phase - 20 year buildout
 Grading - acres of project
 Vehicle Trips - Yearly VMT = 65,125,855

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Woodstoves -

Area Coating - SJV Limit

Area Mitigation - SJV Limit

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	50
tblAreaCoating	Area_EF_Residential_Exterior	150	50
tblAreaCoating	Area_EF_Residential_Interior	150	50
tblConstructionPhase	NumDays	15,500.00	0.00
tblGrading	AcresOfGrading	0.00	1,023.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	1.76
tblVehicleTrips	HO_TTP	35.70	0.00
tblVehicleTrips	HS_TL	7.30	1.77
tblVehicleTrips	HS_TTP	17.40	0.00
tblVehicleTrips	HW_TL	10.80	1.77
tblVehicleTrips	HW_TTP	46.90	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	226.20
tblVehicleTrips	ST_TR	1,084.17	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	ST_TR	1.30	0.00

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	226.20
tblVehicleTrips	SU_TR	901.17	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	226.20
tblVehicleTrips	WD_TR	762.28	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblVehicleTrips	WD_TR	1.56	0.00
tblWoodstoves	NumberCatalytic	21.97	0.00
tblWoodstoves	NumberCatalytic	27.88	0.00
tblWoodstoves	NumberCatalytic	1,201.30	0.00
tblWoodstoves	NumberNoncatalytic	21.97	0.00
tblWoodstoves	NumberNoncatalytic	27.88	0.00
tblWoodstoves	NumberNoncatalytic	1,201.30	0.00

2.0 Emissions Summary

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.6330	64,972.6330	2.0146	1.1761	65,373.4817
Energy	4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.4247	53,072.4247	1.0172	0.9730	53,387.8076
Mobile	69.9536	191.6696	741.4435	1.1614	137.8009	0.9275	138.7284	36.7865	0.8750	37.6616		119,095.4881	119,095.4881	8.7235	11.4958	122,739.3299
Total	351.5985	289.5697	1,240.2309	1.7716	137.8009	10.8757	148.6765	36.7865	10.8232	47.6097	0.0000	237,140.5458	237,140.5458	11.7553	13.6449	241,500.6192

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	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.6330	64,972.6330	2.0146	1.1761	65,373.4817
Energy	4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.4247	53,072.4247	1.0172	0.9730	53,387.8076
Mobile	69.9536	191.6696	741.4435	1.1614	137.8009	0.9275	138.7284	36.7865	0.8750	37.6616		119,095.4881	119,095.4881	8.7235	11.4958	122,739.3299
Total	351.5985	289.5697	1,240.2309	1.7716	137.8009	10.8757	148.6765	36.7865	10.8232	47.6097	0.0000	237,140.5458	237,140.5458	11.7553	13.6449	241,500.6192

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	Grading	Grading	7/13/2041	7/12/2041	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1023

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Grading - 2041

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	69.9536	191.6696	741.4435	1.1614	137.8009	0.9275	138.7284	36.7865	0.8750	37.6616		119,095.4881	119,095.4881	8.7235	11.4958	122,739.3299
Unmitigated	69.9536	191.6696	741.4435	1.1614	137.8009	0.9275	138.7284	36.7865	0.8750	37.6616		119,095.4881	119,095.4881	8.7235	11.4958	122,739.3299

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	100,885.20	100,885.20	100,885.20	64,998,317	64,998,317
Convenience Market (24 hour)	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
University/College (4yr)	0.00	0.00	0.00		
Total	100,885.20	100,885.20	100,885.20	64,998,317	64,998,317

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	1.77	1.77	1.76	100.00	0.00	0.00	100	0	0
Convenience Market (24 hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
University/College (4yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
City Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Condo/Townhouse	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Convenience Market (24 hour)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Office Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Regional Shopping Center	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Single Family Housing	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
University/College (4yr)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
NaturalGas Mitigated	4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.42 47	53,072.42 47	1.0172	0.9730	53,387.80 76
NaturalGas Unmitigated	4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.42 47	53,072.42 47	1.0172	0.9730	53,387.80 76

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments High Rise	43959	0.4741	4.0511	1.7239	0.0259		0.3275	0.3275		0.3275	0.3275		5,171.6446	5,171.6446	0.0991	0.0948	5,202.3771
City Park	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
Condo/Townhouse	20316.5	0.2191	1.8723	0.7967	0.0120		0.1514	0.1514		0.1514	0.1514		2,390.1819	2,390.1819	0.0458	0.0438	2,404.3856
Convenience Market (24 hour)	5900.9	0.0636	0.5785	0.4860	3.4700e-003		0.0440	0.0440		0.0440	0.0440		694.2240	694.2240	0.0133	0.0127	698.3494
Office Park	14834	0.1600	1.4543	1.2216	8.7300e-003		0.1105	0.1105		0.1105	0.1105		1,745.1733	1,745.1733	0.0335	0.0320	1,755.5439
Regional Shopping Center	12208.8	0.1317	1.1969	1.0054	7.1800e-003		0.0910	0.0910		0.0910	0.0910		1,436.3255	1,436.3255	0.0275	0.0263	1,444.8609
Single Family Housing	243668	2.6278	22.4557	9.5556	0.1433		1.8156	1.8156		1.8156	1.8156		28,666.8606	28,666.8606	0.5495	0.5256	28,837.2134
University/College (4yr)	110228	1.1887	10.8067	9.0776	0.0648		0.8213	0.8213		0.8213	0.8213		12,968.0147	12,968.0147	0.2486	0.2378	13,045.0772
Total		4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.4247	53,072.4247	1.0172	0.9730	53,387.8076

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	43.959	0.4741	4.0511	1.7239	0.0259		0.3275	0.3275		0.3275	0.3275		5,171.6446	5,171.6446	0.0991	0.0948	5,202.3771
City Park	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
Condo/Townhouse	20.3165	0.2191	1.8723	0.7967	0.0120		0.1514	0.1514		0.1514	0.1514		2,390.1819	2,390.1819	0.0458	0.0438	2,404.3856
Convenience Market (24 hour)	5.9009	0.0636	0.5785	0.4860	3.4700e-003		0.0440	0.0440		0.0440	0.0440		694.2240	694.2240	0.0133	0.0127	698.3494
Office Park	14.834	0.1600	1.4543	1.2216	8.7300e-003		0.1105	0.1105		0.1105	0.1105		1,745.1733	1,745.1733	0.0335	0.0320	1,755.5439
Regional Shopping Center	12.2088	0.1317	1.1969	1.0054	7.1800e-003		0.0910	0.0910		0.0910	0.0910		1,436.3255	1,436.3255	0.0275	0.0263	1,444.8609
Single Family Housing	243.668	2.6278	22.4557	9.5556	0.1433		1.8156	1.8156		1.8156	1.8156		28,666.8606	28,666.8606	0.5495	0.5256	28,837.2134
University/College (4yr)	110.228	1.1887	10.8067	9.0776	0.0648		0.8213	0.8213		0.8213	0.8213		12,968.0147	12,968.0147	0.2486	0.2378	13,045.0772
Total		4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.4247	53,072.4247	1.0172	0.9730	53,387.8076

6.0 Area Detail

6.1 Mitigation Measures Area

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.6330	64,972.6330	2.0146	1.1761	65,373.4817
Unmitigated	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.6330	64,972.6330	2.0146	1.1761	65,373.4817

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	17.9467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	239.3190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.8806	50.2524	21.3840	0.3208		4.0630	4.0630		4.0630	4.0630	0.0000	64,152.0000	64,152.0000	1.2296	1.1761	64,533.2233
Landscaping	13.6336	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239		820.6330	820.6330	0.7850		840.2585
Total	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.6330	64,972.6330	2.0146	1.1761	65,373.4817

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	17.9467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	239.3190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.8806	50.2524	21.3840	0.3208		4.0630	4.0630		4.0630	4.0630	0.0000	64,152.0000	64,152.0000	1.2296	1.1761	64,533.2233
Landscaping	13.6336	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239		820.6330	820.6330	0.7850		840.2585
Total	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.6330	64,972.6330	2.0146	1.1761	65,373.4817

7.0 Water Detail

7.1 Mitigation Measures Water

UCP Operations - Merced County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**UCP Operations
Merced County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	240.00	1000sqft	5.51	240,000.00	0
University/College (4yr)	10,000.00	Student	42.19	1,837,974.68	0
City Park	135.00	Acre	135.00	5,880,600.00	0
Apartments High Rise	1,362.00	Dwelling Unit	21.97	1,362,000.00	3895
Condo/Townhouse	446.00	Dwelling Unit	27.88	446,000.00	1276
Single Family Housing	3,700.00	Dwelling Unit	1,201.30	6,660,000.00	10582
Convenience Market (24 hour)	203.00	1000sqft	4.66	203,000.00	0
Regional Shopping Center	420.00	1000sqft	9.64	420,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2050
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use -
 Construction Phase - 20 year buildout
 Grading - acres of project
 Vehicle Trips - Yearly VMT = 65,125,855

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Woodstoves -

Area Coating - SJV Limit

Area Mitigation - SJV Limit

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	50
tblAreaCoating	Area_EF_Residential_Exterior	150	50
tblAreaCoating	Area_EF_Residential_Interior	150	50
tblConstructionPhase	NumDays	15,500.00	0.00
tblGrading	AcresOfGrading	0.00	1,023.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	1.76
tblVehicleTrips	HO_TTP	35.70	0.00
tblVehicleTrips	HS_TL	7.30	1.77
tblVehicleTrips	HS_TTP	17.40	0.00
tblVehicleTrips	HW_TL	10.80	1.77
tblVehicleTrips	HW_TTP	46.90	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.53	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	226.20
tblVehicleTrips	ST_TR	1,084.17	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	ST_TR	1.30	0.00

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	3.59	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	226.20
tblVehicleTrips	SU_TR	901.17	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	4.45	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	226.20
tblVehicleTrips	WD_TR	762.28	0.00
tblVehicleTrips	WD_TR	11.07	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblVehicleTrips	WD_TR	1.56	0.00
tblWoodstoves	NumberCatalytic	21.97	0.00
tblWoodstoves	NumberCatalytic	27.88	0.00
tblWoodstoves	NumberCatalytic	1,201.30	0.00
tblWoodstoves	NumberNoncatalytic	21.97	0.00
tblWoodstoves	NumberNoncatalytic	27.88	0.00
tblWoodstoves	NumberNoncatalytic	1,201.30	0.00

2.0 Emissions Summary

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.63 30	64,972.63 30	2.0146	1.1761	65,373.48 17
Energy	4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.42 47	53,072.42 47	1.0172	0.9730	53,387.80 76
Mobile	103.3582	173.8335	657.9249	1.2386	137.8009	0.9214	138.7223	36.7865	0.8692	37.6558		126,877.7 472	126,877.7 472	7.3261	10.7775	130,272.5 948
Total	385.0031	271.7337	1,156.712 2	1.8488	137.8009	10.8696	148.6704	36.7865	10.8174	47.6039	0.0000	244,922.8 049	244,922.8 049	10.3579	12.9266	249,033.8 841

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	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.63 30	64,972.63 30	2.0146	1.1761	65,373.48 17
Energy	4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.42 47	53,072.42 47	1.0172	0.9730	53,387.80 76
Mobile	103.3582	173.8335	657.9249	1.2386	137.8009	0.9214	138.7223	36.7865	0.8692	37.6558		126,877.7 472	126,877.7 472	7.3261	10.7775	130,272.5 948
Total	385.0031	271.7337	1,156.712 2	1.8488	137.8009	10.8696	148.6704	36.7865	10.8174	47.6039	0.0000	244,922.8 049	244,922.8 049	10.3579	12.9266	249,033.8 841

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	Grading	Grading	7/13/2041	7/12/2041	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1023

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Grading - 2041

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	103.3582	173.8335	657.9249	1.2386	137.8009	0.9214	138.7223	36.7865	0.8692	37.6558		126,877.7472	126,877.7472	7.3261	10.7775	130,272.5948
Unmitigated	103.3582	173.8335	657.9249	1.2386	137.8009	0.9214	138.7223	36.7865	0.8692	37.6558		126,877.7472	126,877.7472	7.3261	10.7775	130,272.5948

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Condo/Townhouse	100,885.20	100,885.20	100,885.20	64,998,317	64,998,317
Convenience Market (24 hour)	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
University/College (4yr)	0.00	0.00	0.00		
Total	100,885.20	100,885.20	100,885.20	64,998,317	64,998,317

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	1.77	1.77	1.76	100.00	0.00	0.00	100	0	0
Convenience Market (24 hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	46.90	17.40	35.70	86	11	3
University/College (4yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
City Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Condo/Townhouse	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Convenience Market (24 hour)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Office Park	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Regional Shopping Center	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
Single Family Housing	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806
University/College (4yr)	0.588621	0.050769	0.156309	0.103900	0.015681	0.004425	0.012562	0.045746	0.000838	0.000435	0.017353	0.001555	0.001806

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
NaturalGas Mitigated	4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.42 47	53,072.42 47	1.0172	0.9730	53,387.80 76
NaturalGas Unmitigated	4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.42 47	53,072.42 47	1.0172	0.9730	53,387.80 76

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments High Rise	43959	0.4741	4.0511	1.7239	0.0259		0.3275	0.3275		0.3275	0.3275		5,171.6446	5,171.6446	0.0991	0.0948	5,202.3771
City Park	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
Condo/Townhouse	20316.5	0.2191	1.8723	0.7967	0.0120		0.1514	0.1514		0.1514	0.1514		2,390.1819	2,390.1819	0.0458	0.0438	2,404.3856
Convenience Market (24 hour)	5900.9	0.0636	0.5785	0.4860	3.4700e-003		0.0440	0.0440		0.0440	0.0440		694.2240	694.2240	0.0133	0.0127	698.3494
Office Park	14834	0.1600	1.4543	1.2216	8.7300e-003		0.1105	0.1105		0.1105	0.1105		1,745.1733	1,745.1733	0.0335	0.0320	1,755.5439
Regional Shopping Center	12208.8	0.1317	1.1969	1.0054	7.1800e-003		0.0910	0.0910		0.0910	0.0910		1,436.3255	1,436.3255	0.0275	0.0263	1,444.8609
Single Family Housing	243668	2.6278	22.4557	9.5556	0.1433		1.8156	1.8156		1.8156	1.8156		28,666.8606	28,666.8606	0.5495	0.5256	28,837.2134
University/College (4yr)	110228	1.1887	10.8067	9.0776	0.0648		0.8213	0.8213		0.8213	0.8213		12,968.0147	12,968.0147	0.2486	0.2378	13,045.0772
Total		4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.4247	53,072.4247	1.0172	0.9730	53,387.8076

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments High Rise	43.959	0.4741	4.0511	1.7239	0.0259		0.3275	0.3275		0.3275	0.3275		5,171.6446	5,171.6446	0.0991	0.0948	5,202.3771
City Park	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
Condo/Townhouse	20.3165	0.2191	1.8723	0.7967	0.0120		0.1514	0.1514		0.1514	0.1514		2,390.1819	2,390.1819	0.0458	0.0438	2,404.3856
Convenience Market (24 hour)	5.9009	0.0636	0.5785	0.4860	3.4700e-003		0.0440	0.0440		0.0440	0.0440		694.2240	694.2240	0.0133	0.0127	698.3494
Office Park	14.834	0.1600	1.4543	1.2216	8.7300e-003		0.1105	0.1105		0.1105	0.1105		1,745.1733	1,745.1733	0.0335	0.0320	1,755.5439
Regional Shopping Center	12.2088	0.1317	1.1969	1.0054	7.1800e-003		0.0910	0.0910		0.0910	0.0910		1,436.3255	1,436.3255	0.0275	0.0263	1,444.8609
Single Family Housing	243.668	2.6278	22.4557	9.5556	0.1433		1.8156	1.8156		1.8156	1.8156		28,666.8606	28,666.8606	0.5495	0.5256	28,837.2134
University/College (4yr)	110.228	1.1887	10.8067	9.0776	0.0648		0.8213	0.8213		0.8213	0.8213		12,968.0147	12,968.0147	0.2486	0.2378	13,045.0772
Total		4.8650	42.4156	23.8669	0.2654		3.3613	3.3613		3.3613	3.3613		53,072.4247	53,072.4247	1.0172	0.9730	53,387.8076

6.0 Area Detail

6.1 Mitigation Measures Area

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Category	lb/day										lb/day					
Mitigated	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.6330	64,972.6330	2.0146	1.1761	65,373.4817
Unmitigated	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.6330	64,972.6330	2.0146	1.1761	65,373.4817

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	17.9467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	239.3190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.8806	50.2524	21.3840	0.3208		4.0630	4.0630		4.0630	4.0630	0.0000	64,152.0000	64,152.0000	1.2296	1.1761	64,533.2233
Landscaping	13.6336	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239		820.6330	820.6330	0.7850		840.2585
Total	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.6330	64,972.6330	2.0146	1.1761	65,373.4817

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	17.9467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	239.3190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.8806	50.2524	21.3840	0.3208		4.0630	4.0630		4.0630	4.0630	0.0000	64,152.0000	64,152.0000	1.2296	1.1761	64,533.2233
Landscaping	13.6336	5.2321	453.5365	0.0241		2.5239	2.5239		2.5239	2.5239		820.6330	820.6330	0.7850		840.2585
Total	276.7799	55.4845	474.9205	0.3448		6.5869	6.5869		6.5869	6.5869	0.0000	64,972.6330	64,972.6330	2.0146	1.1761	65,373.4817

7.0 Water Detail

7.1 Mitigation Measures Water

UCP Operations - Merced County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

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

Equipment Type	Number
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11.0 Vegetation

	ROG	NOx	CO	SO2	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					
2025	0.4273	3.0150	3.9542	0.0106	0.7394	0.1071	0.8465	0.2592	0.0995	0.3587	0.0000	957.4516	957.4516	0.1394	0.0381	972.2806
2026	0.4449	2.5730	4.3307	0.0127	0.8106	0.0776	0.8882	0.2182	0.0730	0.2912	0.0000	1153.61	1153.61	0.0874	0.0634	1174.68
2027	0.4260	2.5508	4.1844	0.0124	0.8106	0.0774	0.8880	0.2182	0.0728	0.2910	0.0000	1131.12	1131.12	0.0859	0.0614	1151.56
2028	3.4735	1.7235	2.8590	0.00793	0.4953	0.0573	0.5526	0.1332	0.0537	0.1870	0.0000	720.0923	720.0923	0.0674	0.0346	732.0975
2029	0.0584	0.00066	0.00216	0.00001	0.00053	0.00003	0.00056	0.00014	0.00003	0.00017	0.0000	0.4941	0.4941	0.00002	0.00001	0.4973
Maximum	3.4735	3.0150	4.3307	0.0127	0.8106	0.1071	0.8882	0.2592	0.0995	0.3587	0.0000	1153.61	1153.61	0.1394	0.0634	1174.68

	ROG	NOx	CO	SO2	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					
2026	0.1717	1.4647	1.6122	0.00395	0.2636	0.0564	0.3200	0.1075	0.0523	0.1597	0.0000	351.9487	351.9487	0.0738	0.00876	356.4045
2027	0.2957	2.1593	3.0970	0.00808	0.3916	0.0735	0.4651	0.1057	0.0691	0.1749	0.0000	729.4463	729.4463	0.0781	0.0348	741.7558
2028	1.2934	1.7457	2.5386	0.00637	0.2973	0.0620	0.3593	0.0802	0.0582	0.1384	0.0000	573.3170	573.3170	0.0685	0.0249	582.4587
Maximum	1.2934	2.1593	3.0970	0.00808	0.3916	0.0735	0.4651	0.1075	0.0691	0.1749	0.0000	729.4463	729.4463	0.0781	0.0348	741.7558

	ROG	NOx	CO	SO2	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					
2027	0.4550	3.4066	4.1631	0.0122	1.2946	0.1166	1.4112	0.5184	0.1081	0.6266	0.0000	1109.41	1109.41	0.1538	0.0495	1128.02
2028	0.5235	3.1954	5.0624	0.0173	1.2335	0.0823	1.3158	0.3328	0.0775	0.4103	0.0000	1590.72	1590.72	0.0911	0.1022	1623.45
2029	0.5016	3.1820	4.9273	0.0171	1.2382	0.0823	1.3205	0.3340	0.0774	0.4115	0.0000	1566.78	1566.78	0.0898	0.0999	1598.79
2030	0.4716	2.5693	4.8062	0.0173	1.2382	0.0324	1.2706	0.3340	0.0317	0.3657	0.0000	1580.1	1580.1	0.0310	0.0975	1609.92
2031	5.8641	1.4861	2.9456	0.00951	0.6421	0.0275	0.6696	0.1730	0.0271	0.2001	0.0000	863.8643	863.8643	0.0191	0.0459	878.0249
Maximum	5.8641	3.4066	5.0624	0.0173	1.2946	0.1166	1.4112	0.5184	0.1081	0.6266	0.0000	1590.72	1590.72	0.1538	0.1022	1623.45

	ROG	NOx	CO	SO2	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					
2027	0.2622	2.4152	2.3890	0.00589	0.4087	0.0944	0.5031	0.1877	0.0872	0.2749	0.0000	523.1959	523.1959	0.1275	0.0104	529.4801
2028	0.2833	2.3266	3.0214	0.00855	0.3936	0.0742	0.4678	0.1069	0.0698	0.1767	0.0000	774.9911	774.9911	0.0770	0.0445	790.1701
2029	0.2774	2.3266	2.9875	0.00847	0.3951	0.0744	0.4695	0.1073	0.0700	0.1773	0.0000	767.3445	767.3445	0.0769	0.0436	782.2453
2030	0.2633	1.7277	2.9585	0.00889	0.3951	0.0247	0.4199	0.1073	0.0245	0.1318	0.0000	798.1448	798.1448	0.0191	0.0426	811.3120
2031	0.3228	1.4824	2.6586	0.00731	0.2884	0.0291	0.3175	0.0783	0.0289	0.1072	0.0000	652.9970	652.9970	0.0174	0.0300	662.3707
2032	1.1508	0.0292	0.0872	0.0002	0.0146	0.0007	0.0153	0.00387	0.0007	0.00456	0.0000	17.5644	17.5644	0.00052	0.00023	17.6453
Maximum	1.1508	2.4152	3.0214	0.00889	0.4087	0.0944	0.5031	0.1877	0.0872	0.2749	0.0000	798.1448	798.1448	0.1275	0.0445	811.3120

	ROG	NOx	CO	SO2	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					
2030	0.3822	2.1315	3.3972	0.0114	0.7448	0.0445	0.7893	0.2629	0.0442	0.3071	0.0000	1046.49	1046.49	0.0283	0.0464	1061.03
2031	0.3504	2.3905	3.8048	0.0137	0.8190	0.0299	0.8490	0.2222	0.0294	0.2516	0.0000	1248.67	1248.67	0.0240	0.0827	1273.92
2032	0.3405	2.3904	3.7621	0.0136	0.8222	0.0299	0.8520	0.2231	0.0293	0.2524	0.0000	1238.01	1238.01	0.0234	0.0816	1262.92
2033	0.2985	2.0716	3.3606	0.0114	0.6527	0.0322	0.6850	0.1771	0.0318	0.2089	0.0000	1033.19	1033.19	0.0211	0.0635	1052.65
2034	1.8543	0.0498	0.1549	0.00037	0.0286	0.00168	0.0303	0.0076	0.00167	0.00927	0.0000	32.5875	32.5875	0.00096	0.00043	32.7382
Maximum	1.8543	2.3905	3.8048	0.0137	0.8222	0.0445	0.8520	0.2629	0.0442	0.3071	0.0000	1248.67	1248.67	0.0283	0.0827	1273.92

	ROG	NOx	CO	SO2	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					
2030	0.3338	1.5058	2.3218	0.00696	1.3228	0.0515	1.3743	0.6137	0.0515	0.6652	0.0000	639.4189	639.4189	0.0268	0.00029	640.1747
2031	0.5862	3.6790	5.8127	0.0241	1.9490	0.0452	1.9942	0.5344	0.0442	0.5786	0.0000	2226.29	2226.29	0.0382	0.1573	2274.11
2032	0.5821	3.9334	6.0807	0.0259	1.9759	0.0424	2.0183	0.5348	0.0412	0.5760	0.0000	2389.56	2389.56	0.0372	0.1767	2443.13
2033	0.5531	3.8853	5.9155	0.0254	1.9609	0.0416	2.0025	0.5308	0.0405	0.5712	0.0000	2339.8	2339.8	0.0355	0.1726	2392.12
2034	0.5316	3.8685	5.8130	0.0251	1.9609	0.0412	2.0021	0.5308	0.0401	0.5709	0.0000	2311.67	2311.67	0.0342	0.1702	2363.25
2035	0.5027	3.7665	5.7435	0.0249	1.9684	0.0335	2.0019	0.5328	0.0324	0.5652	0.0000	2295.62	2295.62	0.0323	0.1688	2346.71
2036	0.5046	3.7809	5.7655	0.0250	1.9760	0.0336	2.0096	0.5348	0.0325	0.5674	0.0000	2304.41	2304.41	0.0324	0.1694	2355.7
2037	0.5027	3.7665	5.7435	0.0249	1.9684	0.0335	2.0019	0.5328	0.0324	0.5652	0.0000	2295.62	2295.62	0.0323	0.1688	2346.71
2038	4.7753	1.1262	2.4447	0.00773	0.5125	0.0194	0.5319	0.1382	0.0191	0.1573	0.0000	700.6936	700.6936	0.0139	0.0365	711.9047
2039	2.4115	0.0217	0.1331	0.00041	0.0513	0.00036	0.0516	0.0136	0.00035	0.0140	0.0000	36.9820	36.9820	0.00073	0.00075	37.2232
Maximum	4.7753	3.9334	6.0807	0.0259	1.9760	0.0515	2.0183	0.6137	0.0515	0.6652	0.0000	2389.56	2389.56	0.0382	0.1767	2443.13

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	134.9155	26.9647	932.8578	3.0117		147.8160	147.8160		147.8160	147.8160	19641.81	13905.12	33546.94	92.1317	0.2541	35,925.9425
Energy	0.5807	5.0746	2.9370	0.0317		0.4012	0.4012		0.4012	0.4012	0.00	12407.52	12407.52	0.6734	0.1736	12,476.0956
Mobile	7.9760	13.7682	52.2965	0.0752	7.2915	0.0724	7.3638	1.9530	0.0680	2.0210	0.00	7002.66	7002.66	0.6582	0.7207	7,233.8816
Waste						0.0000	0.0000		0.0000	0.0000	822.9436	0.0000	822.9436	48.6346	0.0000	2,038.8080
Water						0.0000	0.0000		0.0000	0.0000	119.0316	580.6914	699.7230	12.2748	0.2946	1,094.3919
Total	143.4722	45.8075	988.0912	3.1186	7.2915	148.2896	155.5810	1.9530	148.2852	150.2382	20583.78	33895.99	54479.78	154.3727	1.4430	58,769.1195

95600

19641.81	13,905.1248	33,546.9367	92.1317	0.2541	35,925.9425
0.00	12,407.5170	12,407.5170	0.6734	0.1736	12,476.0956
0.00	7,002.6602	7,002.6602	0.6582	0.7207	7,233.8816
822.9436	0.0000	822.9436	48.6346	0.0000	2,038.8080
119.0316	580.6914	699.7230	12.2748	0.2946	1,094.3919
20583.78	33895.99	54,479.7805	154.3727	1.4430	58,769.1195

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	739.2630	147.7518	5111.5496	16.5025	0.0000	809.9507	809.9507	0.0000	809.9507	809.9507	107626.3562	76192.4384	183818.8493	504.8312	1.3923	#VALUE!
Energy	3.1819	27.8060	16.0932	0.1737	0.0000	2.1984	2.1984	0.0000	2.1984	2.1984	0.0000	67986.4110	67986.4110	3.6899	0.9512	#VALUE!
Mobile	43.7041	75.4422	286.5562	0.4121	39.9534	0.3967	40.3496	10.7014	0.3726	11.0740	0.0000	38370.7397	38370.7397	3.6066	3.9490	#VALUE!
Waste	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4509.2800	0.0000	4509.2800	266.4910	0.0000	#VALUE!
Water	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	652.2279	3181.8707	3834.0986	67.2592	1.6142	#VALUE!
Total	786.1490	251.0000	5414.1984	17.0882	39.9534	812.5458	852.4986	10.7014	812.5216	823.2230	112787.8356	185731.4521	298519.3425	845.8778	7.9068	#VALUE!

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
2025	0.2491	0.9691	4.3796	0.0106	0.7394	0.0182	0.7576	0.2592	0.0177	0.2769	0.0000	957.4516	957.4516	0.1394	0.0381	972.2806
2026	0.4099	1.6690	6.3805	0.0167	1.0742	0.0289	1.1031	0.3257	0.0281	0.3537	0.0000	1505.5587	1505.5587	0.1612	0.0722	1531.0845
2027	0.8576	3.8643	15.1430	0.0387	2.5177	0.0689	2.5866	0.8323	0.0670	0.8995	0.0000	3493.1722	3493.1722	0.4453	0.1561	3550.8159
2028	5.1863	4.5589	14.2477	0.0402	2.4197	0.0721	2.4918	0.6531	0.0701	0.7231	0.0000	3659.1204	3659.1204	0.3040	0.2062	3728.1763
2029	0.6198	3.0224	8.3072	0.0256	1.6338	0.0435	1.6824	0.4414	0.0422	0.4837	0.0000	2334.6186	2334.6186	0.1667	0.1435	2381.5326
2030	0.7891	4.4120	15.3637	0.0446	2.9826	0.0599	3.0425	0.9828	0.0586	1.0415	0.0000	4064.1530	4064.1530	0.1052	0.1868	4122.4160
2031	6.6802	6.3703	16.0447	0.0546	3.5778	0.0697	3.6475	0.9715	0.0675	1.0390	0.0000	4991.8210	4991.8210	0.0987	0.3159	5088.4253
2032	1.8589	4.9809	10.2992	0.0397	2.8127	0.0494	2.8622	0.7618	0.0478	0.8096	0.0000	3645.1244	3645.1244	0.0611	0.2585	3723.6953
2033	0.6311	4.5776	9.6433	0.0368	2.6136	0.0452	2.6588	0.7079	0.0437	0.7515	0.0000	3372.9900	3372.9900	0.0566	0.2361	3444.7700
2034	2.2762	3.2198	6.1554	0.0255	1.9895	0.0304	2.0199	0.5384	0.0293	0.5674	0.0000	2344.2575	2344.2575	0.0352	0.1706	2395.9882
2035	0.4055	3.1753	5.9306	0.0249	1.9684	0.0280	1.9964	0.5328	0.0269	0.5597	0.0000	2295.6200	2295.6200	0.0323	0.1688	2346.7100
2036	0.4070	3.1875	5.9533	0.0250	1.9760	0.0281	2.0041	0.5348	0.0270	0.5618	0.0000	2304.4100	2304.4100	0.0324	0.1694	2355.7000
2037	0.4055	3.1753	5.9306	0.0249	1.9684	0.0280	1.9964	0.5328	0.0269	0.5597	0.0000	2295.6200	2295.6200	0.0323	0.1688	2346.7100
2038	4.7014	0.7751	2.5757	0.0077	0.5125	0.0083	0.5213	0.1382	0.0086	0.1468	0.0000	700.6933	700.6933	0.0139	0.0365	711.9045
2039	2.4115	0.0217	0.1331	0.0004	0.0513	0.0004	0.0516	0.0136	0.0004	0.0140	0.0000	36.9820	36.9820	0.0007	0.0008	37.2232
Maximum	6.6802	6.3703	16.0447	0.0546	3.5778	0.0721	3.6475	0.9828	0.0701	1.0415	0.0000	4991.8210	4991.8210	0.4453	0.3159	5088.4253

Note: *Conversion rate for tons/year to pounds/day used was 2000/365

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
	lbs/day									
2025	1.3649	5.3101	23.9978	0.0581	4.0515	0.0997	4.1512	1.4203	0.0970	1.5173
2026	2.2460	9.1452	34.9616	0.0912	5.8860	0.1584	6.0444	1.7847	0.1537	1.9381
2027	4.6992	21.1742	82.9753	0.2118	13.7956	0.3775	14.1732	4.5605	0.3671	4.9288
2028	28.4181	24.9803	78.0696	0.2200	13.2586	0.3951	13.6537	3.5786	0.3841	3.9622
2029	3.3962	16.5609	45.5187	0.1402	8.9525	0.2385	9.2186	2.4188	0.2314	2.6502
2030	4.3238	24.1753	84.1847	0.2441	16.3430	0.3282	16.6712	5.3852	0.3211	5.7068
2031	36.6038	34.9058	87.9162	0.2993	19.6044	0.3819	19.9863	5.3233	0.3699	5.6932
2032	10.1858	27.2926	56.4340	0.2175	15.4121	0.2707	15.6833	4.1741	0.2619	4.4359
2033	3.4581	25.0827	52.8400	0.2016	14.3211	0.2477	14.5688	3.8789	0.2395	4.1178
2034	12.4723	17.6427	33.7282	0.1396	10.9014	0.1666	11.0679	2.9501	0.1605	3.1092
2035	2.2219	17.3989	32.4964	0.1364	10.7858	0.1534	10.9392	2.9195	0.1474	3.0668
2036	2.2301	17.4658	32.6208	0.1370	10.8274	0.1540	10.9814	2.9304	0.1479	3.0784
2037	2.2219	17.3989	32.4964	0.1364	10.7858	0.1534	10.9392	2.9195	0.1474	3.0668
2038	25.7611	4.2471	14.1134	0.0424	2.8082	0.0456	2.8564	0.7573	0.0470	0.8044
Maximum	36.6038	34.9058	87.9162	0.2993	19.6044	0.3951	19.9863	5.3852	0.3841	5.7068

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
2025	0.2491	0.9691	4.3796	0.0106	0.7394	0.0182	0.7576	0.2592	0.0177	0.2769	0.0000	957.4516	957.4516	0.1394	0.0381	972.2806
2026	0.4099	1.6690	6.3805	0.0167	1.0742	0.0289	1.1031	0.3257	0.0281	0.3537	0.0000	1505.5587	1505.5587	0.1612	0.0722	1531.0845
2027	0.8576	3.8643	15.1430	0.0387	2.5177	0.0689	2.5866	0.8323	0.0670	0.8995	0.0000	3493.1722	3493.1722	0.4453	0.1561	3550.8159
2028	5.1863	4.5589	14.2477	0.0402	2.4197	0.0721	2.4918	0.6531	0.0701	0.7231	0.0000	3659.1204	3659.1204	0.3040	0.2062	3728.1763
2029	0.6198	3.0224	8.3072	0.0256	1.6338	0.0435	1.6824	0.4414	0.0422	0.4837	0.0000	2334.6186	2334.6186	0.1667	0.1435	2381.5326
2030	1.0660	5.7116	17.8531	0.0507	3.6402	0.1063	3.7464	1.1002	0.1049	1.2052	0.0000	4593.2905	4593.2905	0.1275	0.1871	4652.1896
2031	7.0563	8.1744	18.6351	0.0625	6.3084	0.1301	6.4386	1.9877	0.1279	2.1156	0.0000	5685.3265	5685.3265	0.1290	0.3162	5782.7830
2032	2.5498	8.8352	16.1238	0.0643	5.4830	0.1226	5.6057	1.5770	0.1201	1.6971	0.0000	5945.9544	5945.9544	0.1095	0.3915	6065.3653
2033	2.3802	17.5788	27.4910	0.1294	10.7088	0.1580	10.8668	2.8998	0.1517	3.0513	0.0000	12017.6600	12017.6600	0.1600	0.9589	12307.4100
2034	3.9371	16.1512	23.5821	0.1169	10.0848	0.1415	10.2263	2.7303	0.1358	2.8657	0.0000	10872.2575	10872.2575	0.1335	0.8833	11138.8382
2035	1.9829	15.9891	23.0625	0.1155	10.0948	0.1305	10.2253	2.7331	0.1248	2.8579	0.0000	10752.6200	10752.6200	0.1255	0.8755	11016.9700
2036	1.9904	16.0504	23.1509	0.1160	10.1335	0.1310	10.2645	2.7435	0.1253	2.8688	0.0000	10794.1300	10794.1300	0.1259	0.8789	11059.1800
2037	1.9829	15.9891	23.0625	0.1155	10.0948	0.1305	10.2253	2.7331	0.1248	2.8579	0.0000	10752.9400	10752.9400	0.1255	0.8755	11016.9600
2038	10.0733	13.5889	19.7076	0.0983	8.6389	0.1108	8.7502	2.3385	0.1065	2.4450	0.0000	9158.0133	9158.0133	0.1071	0.7432	9382.1545
2039	3.9828	12.7864	17.1994	0.0907	8.1466	0.1025	8.2490	2.2055	0.0979	2.3034	0.0000	8461.8820	8461.8820	0.0935	0.7048	8674.2532
2040	0.2769	1.2996	2.4894	0.0062	0.6576	0.0464	0.7039	0.1174	0.0463	0.1637	0.0000	529.1375	529.1375	0.0223	0.0003	529.7736
2041	0.3761	1.8041	2.5904	0.0079	2.7306	0.0604	2.7911	1.0162	0.0604	1.0766	0.0000	693.5055	693.5055	0.0303	0.0003	694.3577
2042	0.6909	3.8543	5.8246	0.0246	2.6703	0.0732	2.7435	0.8152	0.0723	0.8875	0.0000	2300.8300	2300.8300	0.0484	0.1330	2341.6700
2043	1.7491	13.0012	17.8477	0.0926	8.0952	0.1128	8.2080	2.1919	0.1080	2.2998	0.0000	8644.6700	8644.6700	0.1034	0.7228	8862.6400
2044	1.6609	12.9314	17.4267	0.0914	8.0953	0.1111	8.2064	2.1919	0.1065	2.2983	0.0000	8528.0000	8528.0000	0.0983	0.7127	8742.8500
2045	1.5774	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8457.0000	8457.0000	0.0932	0.7067	8670.2600
2046	1.5834	12.8629	17.1976	0.0910	8.1575	0.1029	8.2604	2.2087	0.0983	2.3070	0.0000	8489.7200	8489.7200	0.0935	0.7095	8703.4800
2047	1.5774	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8457.3200	8457.3200	0.0932	0.7067	8670.2500
2048	5.3719	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8457.3200	8457.3200	0.0932	0.7067	8670.2500
2049	1.5713	12.7647	17.0663	0.0903	8.0953	0.1021	8.1974	2.1919	0.0975	2.2894	0.0000	8424.9000	8424.9000	0.0928	0.7040	8637.0300
Maximum	10.0733	17.5788	27.4910	0.1294	10.7088	0.1580	10.8668	2.8998	0.1517	3.0513	0.0000	12017.6600	12017.6600	0.4453	0.9589	12307.4100

Note: *Conversion rate for tons/year to pounds/day used was 2000/365

167782.5550

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
	lbs/day									
2025	1.3649	5.3101	23.9978	0.0581	4.0515	0.0997	4.1512	1.4203	0.0970	1.5173
2026	2.2460	9.1452	34.9616	0.0912	5.8860	0.1584	6.0444	1.7847	0.1537	1.9381
2027	4.6992	21.1742	82.9753	0.2118	13.7956	0.3775	14.1732	4.5605	0.3671	4.9288
2028	28.4181	24.9803	78.0696	0.2200	13.2586	0.3951	13.6537	3.5786	0.3841	3.9622
2029	3.3962	16.5609	45.5187	0.1402	8.9525	0.2385	9.2186	2.4188	0.2314	2.6502
2030	5.8411	31.2964	97.8252	0.2778	19.9463	0.5825	20.5282	6.0285	0.5748	6.6038
2031	38.6647	44.7912	102.1101	0.3424	34.5666	0.7129	35.2800	10.8915	0.7008	11.5923
2032	13.9715	48.4121	88.3496	0.3523	30.0438	0.6718	30.7162	8.6409	0.6581	9.2990
2033	13.0422	96.3222	150.6356	0.7090	58.6784	0.8658	59.5441	15.8893	0.8312	16.7195
2034	21.5732	88.4997	129.2170	0.6404	55.2592	0.7753	56.0345	14.9605	0.7441	15.7026
2035	10.8652	87.6115	126.3699	0.6329	55.3140	0.7151	56.0290	14.9759	0.6838	15.6597
2036	10.9063	87.9474	126.8542	0.6356	55.5260	0.7178	56.2438	15.0329	0.6866	15.7195
2037	10.8652	87.6115	126.3699	0.6329	55.3140	0.7151	56.0290	14.9759	0.6838	15.6597
2038	55.1964	74.4597	107.9868	0.5388	47.3364	0.6073	47.9463	12.8137	0.5835	13.3973
Maximum	55.1964	96.3222	150.6356	0.7090	58.6784	0.8658	59.5441	15.8893	0.8312	16.7195

	ROG	NOx	CO	SO2	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					
2025	0.2491	0.9691	4.3796	0.0106	0.7394	0.0182	0.7576	0.2592	0.0177	0.2769	0.0000	957.4516	957.4516	0.1394	0.0381	972.2806
2026	0.3361	1.3296	4.5258	0.0127	0.8106	0.0211	0.8317	0.2182	0.0204	0.2386	0.0000	1,153.61	1153.61	0.0874	0.0634	1174.68
2027	0.3172	1.3074	4.3795	0.0124	0.8106	0.0208	0.8314	0.2182	0.0201	0.2384	0.0000	1131.12	1131.12	0.0859	0.0614	1151.56
2028	3.3936	0.8074	3.0464	0.00793	0.4953	0.0143	0.5096	0.1332	0.0140	0.1472	0.0000	720.0923	720.0923	0.0674	0.0346	732.0975
2029	0.0584	0.00066	0.00216	0.00001	0.00053	0.00003	0.0056	0.00014	0.00003	0.00017	0.0000	0.4941	0.4941	0.00002	0.00001	0.4973
Maximum	3.3936	1.3296	4.5258	0.0127	0.8106	0.0211	0.8317	0.2592	0.0204	0.2769	0.0000	1,153.611 1	1,153.611 1	0.1394	0.0634	1,174.681 4

	ROG	NOx	CO	SO2	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					
2026	0.0738	0.3394	1.8547	0.00395	0.2636	0.0078	0.2714	0.1075	0.00765	0.1151	0.0000	351.9487	351.9487	0.0738	0.00876	356.4045
2027	0.1869	0.9158	3.2921	0.00808	0.3916	0.0169	0.4085	0.1057	0.0165	0.1222	0.0000	729.4463	729.4463	0.0781	0.0348	741.7558
2028	1.2027	0.7069	2.7289	0.00637	0.2973	0.0139	0.3112	0.0802	0.0136	0.0938	0.0000	573.3170	573.3170	0.0685	0.0249	582.4587
Maximum	1.2027	0.9158	3.2921	0.00808	0.3916	0.0169	0.4085	0.1075	0.0165	0.1222	0.0000	729.4463	729.4463	0.0781	0.0348	741.7558

	ROG	NOx	CO	SO2	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					
2027	0.2598	1.1638	4.6467	0.0122	0.9068	0.0198	0.9266	0.3207	0.0192	0.3400	0.0000	1109.41	1109.41	0.1538	0.0495	1128.02
2028	0.4151	1.9567	5.2567	0.0173	1.2335	0.0260	1.2595	0.3328	0.0251	0.3578	0.0000	1590.72	1590.72	0.0911	0.1022	1623.45
2029	0.3928	1.9385	5.1224	0.0171	1.2382	0.0257	1.2639	0.3340	0.0248	0.3588	0.0000	1566.78	1566.78	0.0898	0.0999	1598.79
2030	0.3648	1.8859	4.9901	0.0173	1.2382	0.0207	1.2590	0.3340	0.0200	0.3541	0.0000	1580.1	1580.1	0.0310	0.0975	1609.9
2031	5.7757	0.9603	3.0822	0.00951	0.6421	0.0118	0.6540	0.1730	0.0115	0.1845	0.0000	863.8640	863.8640	0.0191	0.0459	878.0246
Maximum	5.7757	1.9567	5.2567	0.0173	1.2382	0.0260	1.2639	0.3340	0.0251	0.3588	0.0000	1590.72	1590.72	0.1538	0.1022	1623.45

	ROG	NOx	CO	SO2	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					
2027	0.0937	0.4773	2.8247	0.00598	0.4087	0.0114	0.4201	0.1877	0.0112	0.1989	0.0000	523.1959	523.1959	0.1275	0.0104	529.4801
2028	0.1749	1.0879	3.2157	0.00855	0.3936	0.0179	0.4115	0.1069	0.0174	0.1243	0.0000	774.9911	774.9911	0.0770	0.0445	790.1701
2029	0.1686	1.0832	3.1826	0.00847	0.3951	0.0178	0.4129	0.1073	0.0174	0.1247	0.0000	767.3445	767.3445	0.0769	0.0436	782.2453
2030	0.1564	1.0442	3.1424	0.00889	0.3951	0.0131	0.4082	0.1073	0.0128	0.1201	0.0000	798.1448	798.1448	0.0191	0.0426	811.3120
2031	0.2082	0.7890	2.8402	0.00731	0.2884	0.0107	0.2990	0.0783	0.0105	0.0888	0.0000	652.9970	652.9970	0.0174	0.0300	662.3707
2032	1.1508	0.0292	0.0872	0.0002	0.0146	0.0007	0.0153	0.00387	0.0007	0.00456	0.0000	17.5644	17.5644	0.00052	0.00023	17.6453
Maximum	1.1508	1.0879	3.2157	0.00889	0.4087	0.0179	0.4201	0.1877	0.0174	0.1989	0.0000	798.1448	798.1448	0.1275	0.0445	811.3120

	ROG	NOx	CO	SO2	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					
2030	0.1858	1.1331	4.0029	0.0114	0.7448	0.0158	0.7605	0.2629	0.0155	0.2784	0.0000	1046.49	1046.49	0.0283	0.0464	1061.03
2031	0.2436	1.7071	3.9886	0.0137	0.8190	0.0183	0.8373	0.2222	0.0177	0.2399	0.0000	1248.67	1248.67	0.0240	0.0827	1273.92
2032	0.2333	1.7044	3.9467	0.0136	0.8222	0.0181	0.8403	0.2231	0.0176	0.2407	0.0000	1238.01	1238.01	0.0234	0.0816	1262.92
2033	0.1845	1.3731	3.5447	0.0114	0.6527	0.0152	0.6679	0.1771	0.0148	0.1919	0.0000	1033.19	1033.19	0.0211	0.0635	1052.65
2034	1.8510	0.0321	0.1592	0.00037	0.0286	0.0008	0.0294	0.0076	0.00079	0.00823	0.0000	32.5875	32.5875	0.00096	0.00043	32.7382
Maximum	1.8510	1.7071	4.0029	0.0137	0.8222	0.0183	0.8403	0.2629	0.0177	0.2784	0.0000	1248.67	1248.67	0.0283	0.0827	1273.92

	ROG	NOx	CO	SO2	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					
2030	0.0821	0.3488	3.2283	0.00696	0.6045	0.0103	0.6148	0.2786	0.0103	0.2889	0.0000	639.4182	639.4182	0.0268	0.00029	640.1740
2031	0.4527	2.9139	6.1337	0.0241	1.8283	0.0289	1.8572	0.4980	0.0278	0.5258	0.0000	2226.29	2226.29	0.0382	0.1573	2274.11
2032	0.4748	3.2473	6.2653	0.0259	1.9759	0.0306	2.0066	0.5348	0.0295	0.5643	0.0000	2389.55	2389.55	0.0372	0.1767	2443.13
2033	0.4466	3.2045	6.0986	0.0254	1.9609	0.0300	1.9909	0.5308	0.0289	0.5596	0.0000	2339.8	2339.8	0.0355	0.1726	2392.12
2034	0.4252	3.1877	5.9962	0.0251	1.9609	0.0296	1.9905	0.5308	0.0285	0.5592	0.0000	2311.67	2311.67	0.0342	0.1702	2363.25
2035	0.4055	3.1753	5.9306	0.0249	1.9684	0.0280	1.9964	0.5328	0.0269	0.5597	0.0000	2295.62	2295.62	0.0323	0.1688	2346.71
2036	0.4070	3.1875	5.9533	0.0250	1.9760	0.0281	2.0041	0.5348	0.0270	0.5618	0.0000	2304.41	2304.41	0.0324	0.1694	2355.7
2037	0.4055	3.1753	5.9306	0.0249	1.9684	0.0280	1.9964	0.5328	0.0269	0.5597	0.0000	2295.62	2295.62	0.0323	0.1688	2346.71
2038	4.7014	0.7751	2.5757	0.00773	0.5125	0.00833	0.5213	0.1382	0.00858	0.1468	0.0000	700.6933	700.6933	0.0139	0.0365	711.9045
2039	2.4115	0.0217	0.1331	0.00041	0.0513	0.00036	0.0516	0.0136	0.00035	0.0140	0.0000	36.9820	36.9820	0.00073	0.00075	37.2232
Maximum	4.7014	3.2473	6.2653	0.0259	1.9760	0.0306	2.0066	0.5348	0.0295	0.5643	0.0000	2389.55	2389.55	0.0382	0.1767	2443.13

	ROG	NOx	CO	SO2	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					
2030	0.2769	1.2996	2.4894	0.00615	0.6576	0.0464	0.7039	0.1174	0.0463	0.1637	0.0000	529.1375	529.1375	0.0223	0.00027	529.7736
2031	0.3761	1.8041	2.5904	0.00786	2.7306	0.0604	2.7911	1.0162	0.0604	1.0766	0.0000	693.5055	693.5055	0.0303	0.00032	694.3577
2032	0.6909	3.8543	5.8246	0.0246	2.6703	0.0732	2.7435	0.8152	0.0723	0.8875	0.0000	2300.83	2300.83	0.0484	0.1330	2341.67
2033	1.7491	13.0012	17.8477	0.0926	8.0952	0.1128	8.2080	2.1919	0.1080	2.2998	0.0000	8644.67	8644.67	0.1034	0.7228	8862.64
2034	1.6609	12.9314	17.4267	0.0914	8.0953	0.1111	8.2064	2.1919	0.1065	2.2983	0.0000	8528	8528	0.0983	0.7127	8742.85
2035	1.5774	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8457	8457	0.0932	0.7067	8670.26
2036	1.5834	12.8629	17.1976	0.0910	8.1575	0.1029	8.2604	2.2087	0.0983	2.3070	0.0000	8489.72	8489.72	0.0935	0.7095	8703.48
2037	1.5774	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8457.32	8457.32	0.0932	0.7067	8670.25
2038	5.3719	12.8138	17.1319	0.0906	8.1264	0.1025	8.2289	2.2003	0.0979	2.2982	0.0000	8457.32	8457.32	0.0932	0.7067	8670.25
2039	1.5713	12.7647	17.0663	0.0903	8.0953	0.1021	8.1974	2.1919	0.0975	2.2894	0.0000	8424.9	8424.9	0.0928	0.7040	8637.03
2040	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8107.64	8107.64	0.0776	0.6781	8311.65
2041	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8107.64	8107.64	0.0776	0.6781	8311.65
2042	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8107.64	8107.64	0.0776	0.6781	8311.65
2043	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8107.64	8107.64	0.0776	0.6781	8311.65
2044	1.2932	12.5907	15.9925	0.0869	8.1264	0.0950	8.2214	2.2003	0.0908	2.2911	0.0000	8107.64	8107.64	0.0776	0.6781	8311.65
2045	1.1680	12.5011	15.4663	0.0848	8.0953	0.0924	8.1877	2.1919	0.0884	2.2803	0.0000	7912.84	7912.84	0.0708	0.6624	8111.57
2046	1.1725	12.5492	15.5258	0.0851	8.1264	0.0928	8.2192	2.2003	0.0887	2.2890	0.0000	7912.84	7912.84	0.0711	0.6649	8142.77
2047	0.9377	9.8206	12.4884	0.0667	6.2929	0.0753	6.3682	1.7039	0.0721	1.7760	0.0000	6220.44	6220.44	0.0574	0.5147	6375.25
2048	5.6191	0.4323	2.1285	0.00458	0.2385	0.0132	0.2517	0.0634	0.0132	0.0766	0.0000	402.2689	402.2689	0.0106	0.00324	403.4995
2049	3.7945	0.1806	1.9896	0.00733	1.1232	0.00298	1.1262	0.2986	0.00281	0.3014	0.0000	670.1824	670.1824	0.0088	0.0153	674.9482
Maximum	5.6191	13.0012	17.8477	0.0926	8.1575	0.1128	8.2604	2.2087	0.1080	2.3070	0.0000	8644.6700	8644.6700	0.1034	0.7228	8862.6400

529.1375	529.1375	0.0223	0.00027	529.7736
693.5055	693.5055	0.0303	0.00032	694.3577
2,300.8274	2,300.8274	0.0484	0.1330	2,341.6672
8,644.6697	8,644.6697	0.1034	0.7228	8,862.6406
8,528.0038	8,528.0038	0.0983	0.7127	8,742.8538
8,457.3177	8,457.3177	0.0932	0.7067	8,670.2565
8,489.7212	8,489.7212	0.0935	0.7095	8,703.4759
8,457.3177	8,457.3177	0.0932	0.7067	8,670.2565
8,457.3177	8,457.3177	0.0932	0.7067	8,670.2565
8,424.9142	8,424.9142	0.0928	0.7040	8,637.0371
8,107.6430	8,107.6430	0.0776	0.6781	8,311.6572
8,107.6430	8,107.6430	0.0776	0.6781	8,311.6572
8,107.6430	8,107.6430	0.0776	0.6781	8,311.6572
8,107.6430	8,107.6430	0.0776	0.6781	8,311.6572
8,107.6430	8,107.6430	0.0776	0.6781	8,311.6572
8,107.6430	8,107.6430	0.0776	0.6781	8,311.6572
7,912.4100	7,912.4100	0.0708	0.6624	8,111.5728
7,942.8423	7,942.8423	0.0711	0.6649	8,142.7711
6,220.4412	6,220.4412	0.0574	0.5147	6,375.2500
402.2689	402.2689	0.0106	0.00324	403.4995
670.1824	670.1824	0.0088	0.0153	674.9482
693.5055	693.5055	0.1034	0.7228	694.3577

	ROG	NOx	CO	SO2	Fugitive 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	30.3902	0.3294	28.5582	0.00151		0.1589	0.1589		0.1589	0.1589	0.0000	46.8203	46.8203	0.0446	0.0000	47.9361
Energy	0.2064	1.8760	1.5759	0.0113		0.1426	0.1426		0.1426	0.1426	0.0000	4,638.7678	4,638.7678	0.2587	0.0641	4,664.3250
Mobile	7.9693	13.7566	52.2527	0.0752	7.2854	0.0723	7.3577	1.9514	0.0679	2.0193	0.0000	6,996.8012	6,996.8012	0.6576	0.7201	7,227.8291
Waste						0.0000	0.0000		0.0000	0.0000	822.9436	0.0000	822.9436	48.6346	0.0000	2,038.8080
Water						0.0000	0.0000		0.0000	0.0000	71.1757	347.2281	418.4038	7.3398	0.1762	654.3986
Total	38.5659	15.9621	82.3868	0.0879	7.2854	0.3738	7.6591	1.9514	0.3694	2.3208	894.1193	12,029.6173	12,923.7366	56.9354	0.9603	14,633.2968

	ROG	NOx	CO	SO2	Fugitive 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										MT/yr					
Area	166.5216	1.8049	156.4833	0.0083	0.0000	0.8707	0.8707	0.0000	0.8707	0.8707	6,089.1088	6,132.9400	12,222.0488	28.6269	0.1116	12,970.9711
Energy	1.1310	10.2795	8.6351	0.0619	0.0000	0.7814	0.7814	0.0000	0.7814	0.7814	0.0000	7,489.2731	7,489.2731	0.5380	0.1408	7,544.6923
Mobile	43.6674	75.3786	286.3162	0.4121	39.9200	0.3962	40.3162	10.6926	0.3721	11.0647	0.0000	8,808.4798	8,808.4798	1.0386	0.9261	9,110.4081
Waste						0.0000	0.0000		0.0000	0.0000	732.0829	0.0000	732.0829	43.2649	0.0000	1,813.7043
Water						0.0000	0.0000		0.0000	0.0000	110.1002	293.1674	403.2675	11.3558	0.2728	768.4452
Total	167.6526	12.0844	165.1184	0.0702	0.0000	1.6521	1.6521	0.0000	1.6521	1.6521	6,931.2918	22,723.8602	29,655.1520	84.8241	1.4512	32,208.2210

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	54.9697	2.5312	41.6950	0.0153		0.3937	0.3937		0.3937	0.3937	0.0000	2453.11	2,453.1083	0.1098	0.0438	2,468.8900
Energy	0.8879	7.7408	4.3557	0.0484		0.6134	0.6134		0.6134	0.6134	0.0000	14812.13	14,812.1316	1.1432	0.2793	14,923.9273
Mobile	13.8426	31.8473	117.0950	0.1940	21.6161	0.1524	21.7685	5.7843	0.1437	5.9280	0.0000	18045	18,045.0591	1.2621	1.7237	18,590.2702
Waste						0.0000	0.0000		0.0000	0.0000	1573.6	0.0000	1,573.6002	92.9971	0.0000	3,898.5278
Water						0.0000	0.0000		0.0000	0.0000	148.8183	388.6684	537.4867	15.3479	0.3685	1,031.0088
Total	69.7001	42.1194	163.1457	0.2577	21.6161	1.1596	22.7757	5.7843	1.1509	6.9352	1722.42	35,698.9674	37,421.3858	110.8601	2.4152	40,912.6241

0.0000	2,453.1083	2,453.1083	0.1098	0.0438	2,468.8900
0.0000	14,812.1316	14,812.1316	1.1432	0.2793	14,923.9273
0.0000	18,045.0591	18,045.0591	1.2621	1.7237	18,590.2702
1,573.6002	0.0000	1,573.6002	92.9971	0.0000	3,898.5278
148.8183	388.6684	537.4867	15.3479	0.3685	1,031.0088
1,722.4184	35,698.9674	37,421.3858	110.8601	2.4152	40,912.6241

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										MT/yr					
Area	301.2038	13.8696	228.4658	0.0838	0.0000	2.1573	2.1573	0.0000	2.1573	2.1573	0.0000	13441.6986	#VALUE!	0.6016	0.2400	#VALUE!
Energy	4.8652	42.4153	23.8668	0.2652	0.0000	3.3611	3.3611	0.0000	3.3611	3.3611	0.0000	81162.3562	#VALUE!	6.2641	1.5304	#VALUE!
Mobile	75.8499	174.5058	641.6164	1.0630	118.4444	0.8351	119.2795	31.6948	0.7874	32.4822	0.0000	98876.7123	#VALUE!	6.9156	9.4449	#VALUE!
Waste	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8622.4658	0.0000	#VALUE!	509.5732	0.0000	#VALUE!
Water	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	815.4427	2129.6899	2945.1326	84.0981	2.0192	#VALUE!
Total	381.9184	230.7912	893.9490	1.4121	118.4444	6.3540	124.7984	31.6948	6.3063	38.0011	9437.9178	#VALUE!	#VALUE!	607.4526	13.2340	#VALUE!

Year	ROG (lb/day)	NO _x (lb/day)	CO (lb/day)	SO _x (lb/day)	PM ₁₀ (lb/day)	PM _{2.5} (lb/day)
2025	<1	3.6	33.5	<1	19.2	10.2
2026	4.6	18.8	78.8	<1	28.4	12.8
2027	35.8	31.7	146.4	<1	53.7	24.6
2028	67.0	47.3	164.3	<1	35.3	11.6
2029	5.7	30.0	77.8	<1	17.7	5.0
2030	50.3	36.2	141.1	<1	59.0	26.0
2031	59.1	91.6	261.6	<1	80.3	28.9
2032	39.8	58.1	147.2	<1	42.5	13.5
2033	39.3	57.7	144.7	<1	42.5	13.5
2034	5.6	36.1	94.8	<1	28.4	9.6
2035	4.5	32.4	60.4	<1	21.8	6.1
2036	39.9	32.9	69.2	<1	25.2	7.0
2037	39.9	32.9	69.2	<1	25.2	7.0
2038	36.2	1.7	26.4	<1	3.6	1.0
SJVAPCD Threshold of Significance	100	100	100	100	100	100
Exceeds Thresholds?	No	No	Yes	No	No	No

mitigated

Year	ROG (lb/day)	NO _x (lb/day)	CO (lb/day)	SO _x (lb/day)	PM ₁₀ (lb/day)	PM _{2.5} (lb/day)
2025	3.0	28.0	26.9	<1	20.2	11.1
2026	7.7	53.0	70.8	<1	29.9	14.1
2027	42.2	101.2	130.3	<1	56.7	27.4
2028	72.4	103.2	153.6	<1	37.9	13.9
2029	7.6	49.8	73.9	<1	18.6	5.9
2030	56.6	70.1	122.5	<1	60.0	27.0
2031	67.9	135.4	235.1	<1	81.5	30.1
2032	44.3	80.0	134.6	<1	43.1	14.1
2033	43.8	79.6	132.1	<1	43.1	14.1
2034	9.0	51.9	83.5	<1	28.9	10.0
2035	5.3	37.1	59.0	<1	21.8	6.1
2036	40.9	38.2	67.9	<1	25.3	7.0
2037	40.9	38.2	67.9	<1	25.3	7.0
2038	37.2	6.0	24.9	<1	3.8	1.2
SJVAPCD Threshold of Significance	100	100	100	100	100	100
Exceeds Thresholds?	Yes	Yes	Yes	No	Yes	No

unmitigated

Default water usage	After reduction				
103,985,824.89	65,556,280.91	14.5%	9.2%	72,816,230.17	45,905,884.24
31,273,932.30	19,716,174.71	4.4%	2.8%	21,899,618.10	13,806,280.97
32,837,628.91	20,701,983.45	4.6%	2.9%	22,994,599.00	14,496,595.03
0	117,003,468.54	0.0%	16.3%	-	81,931,854.70
45,151,739.76	28,465,227.24	6.3%	4.0%	31,617,573.63	19,932,818.16
5,147,168.02	3,244,953.75	0.7%	0.5%	3,604,312.14	2,272,283.74
18,934,986.94	48,689,966.41	2.6%	6.8%	13,259,253.06	34,095,222.16
4,819,686.30	535,520.70	0.7%	0.1%	3,374,992.58	374,999.18
48,876,780.70	29,956,736.56	6.8%	4.2%	34,226,039.15	20,977,249.80
0	0	0.0%	0.0%	-	-
23,110,626.70	14,164,577.66	3.2%	2.0%	16,183,251.08	9,918,766.80
32,902,782.94	20,743,058.81	4.6%	2.9%	23,040,223.21	14,525,358.11

total	347,041,157.46	368,777,948.74	715,819,106.20
actual total:	501,253,405.00		
difference:	214,565,701.20		
%:	70.03		

1596 Apartments High Rise	Dwelling Unit	734.16	20.4%	582.1184
480 Apartments Low Rise	Dwelling Unit	220.8	6.1%	175.0732
504 Apartments Mid Rise	Dwelling Unit	231.84	6.4%	183.8269
98.2 City Park	Acre	8.45	0.2%	6.700039
693 Condo/Townhouse	Dwelling Unit	318.78	8.8%	252.7619
Condo/Townhouse High Rise	Dwelling Unit	36.34		
79 Rise			1.0%	28.81413
653 Elementary School	1000sqft	848.9	23.5%	673.0962
190 Hotel	Room	104.02	2.9%	82.47788
275 Office Park	1000sqft	255.75	7.1%	202.7852
69.8 Other Asphalt Surfaces	Acre	0	0.0%	0
312 Regional Shopping Center	1000sqft	327.6	9.1%	259.7554
505 Single Family Housing	Dwelling Unit	519.84	14.4%	412.1832

total		3606.48		
	15669	0.1825	2859.593	
			conversion rate (365/2000)	

6.8 lbs/resident 11110 residence 75548 lbs/day 13787.51

Commercial	Office Park	275	275
Educational	Elementary School	653	653
Parking	Other Asphalt Surfaces	9.8	
Parking	Other Asphalt Surfaces	6.5	
Parking	Other Asphalt Surfaces	12.3	
Parking	Other Asphalt Surfaces	8.6	
Parking	Other Asphalt Surfaces	10.2	
Parking	Other Asphalt Surfaces	22.4	69.8
Recreational	City Park	5.3	
Recreational	City Park	8	
Recreational	City Park	5.8	
Recreational	City Park	7.3	
Recreational	City Park	1.4	
Recreational	City Park	4.5	
Recreational	City Park	15.5	
Recreational	City Park	4.8	
Recreational	City Park	45.6	98.2
Recreational	Hotel	190	190
Residential	Apartments High Rise	696	
Residential	Apartments High Rise	456	
Residential	Apartments High Rise	108	
Residential	Apartments High Rise	336	1596
Residential	Apartments Low Rise	36	
Residential	Apartments Low Rise	64	
Residential	Apartments Low Rise	24	
Residential	Apartments Low Rise	131	
Residential	Apartments Low Rise	225	480
Residential	Apartments Mid Rise	364	
Residential	Apartments Mid Rise	140	504
Residential	Condo/Townhouse	226	
Residential	Condo/Townhouse	186	
Residential	Condo/Townhouse	281	693
Residential	Condo/Townhouse High Rise	66	
Residential	Condo/Townhouse High Rise	13	79
Residential	Single Family Housing	43	
Residential	Single Family Housing	141	
Residential	Single Family Housing	105	
Residential	Single Family Housing	216	505
Retail	Regional Shopping Center	50	
Retail	Regional Shopping Center	175	
Retail	Regional Shopping Center	32.5	
Retail	Regional Shopping Center	54.5	312

Electricity Savings	Water Savings
Apt High Rise	488
Apt High Rise	76
Condo	320
Condo	123
single Fam	186
single Fam	200
single Fam	242
single Fam	264
single Fam	319
single Fam	321
single Fam	18
single Fam	34
single Fam	462
single Fam	51
single Fam	61
single Fam	91
single Fam	94
single Fam	149
single Fam	3499
Total Electricity and Water	3603
	1539

	ROG	NOx	CO	SO2	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					
2025	5.5094	53.2473	45.3223	0.1029	12.5253	2.2193	14.7446	6.1895	2.0418	8.2313	0.0000	10,307.60 45	10,307.60 45	3.1441	0.5462	10,489.04 57
2026	3.7096	19.3799	35.4851	0.1006	6.3934	0.5946	6.9880	1.7168	0.5594	2.2762	0.0000	10,114.60 68	10,114.60 68	0.7338	0.5290	10,290.59 01
2027	3.5413	19.2215	34.1705	0.0986	6.3934	0.5926	6.9861	1.7168	0.5576	2.2744	0.0000	9,912.573 9	9,912.573 9	0.7211	0.5126	10,083.36 76
2028	116.9067	19.0924	33.0830	0.0968	6.3934	0.5907	6.9842	1.7168	0.5558	2.2726	0.0000	9,727.257 6	9,727.257 6	0.7160	0.4979	9,893.391 4
2029	116.8788	1.3052	4.6796	0.0116	1.0926	0.0560	1.1485	0.2898	0.0556	0.3454	0.0000	1,157.174 1	1,157.174 1	0.0336	0.0198	1,163.910 8
Maximum	116.9067	53.2473	45.3223	0.1029	12.5253	2.2193	14.7446	6.1895	2.0418	8.2313	0.0000	10,307.60 45	10,307.60 45	3.1441	0.5462	10,489.04 57

	ROG	NOx	CO	SO2	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					
2025	5.4949	53.2603	45.1699	0.1026	12.5253	2.2193	14.7446	6.1895	2.0418	8.2313	0.0000	9,948.6262	9,948.6262	3.1449	0.5627	10,029.6713
2026	3.4700	19.9846	33.0911	0.0956	6.3934	0.5947	6.9881	1.7168	0.5595	2.2763	0.0000	9,615.3022	9,615.3022	0.7467	0.5443	9,796.1781
2027	3.3221	19.8008	32.0020	0.0938	6.3934	0.5928	6.9862	1.7168	0.5577	2.2745	0.0000	9,429.5809	9,429.5809	0.7333	0.5270	9,604.9500
2028	116.8684	19.6508	31.0987	0.0921	6.3934	0.5908	6.9843	1.7168	0.5559	2.2727	0.0000	9,258.8114	9,258.8114	0.7220	0.5114	9,429.2536
2029	116.8437	1.3344	4.3021	0.0107	1.0926	0.0560	1.1485	0.2898	0.0556	0.3454	0.0000	1,065.1354	1,065.1354	0.0359	0.0221	1,072.6217
Maximum	116.8684	53.2603	45.1699	0.1026	12.5253	2.2193	14.7446	6.1895	2.0418	8.2313	0.0000	9,948.6262	9,948.6262	3.1449	0.5627	10,029.6713

2.9671	27.9759	26.8601	0.0646	9.4708	1.1317	10.5583	4.6369	1.0412	5.6374	0.0000	6,428.4199	6,428.4199	1.9469	0.2995	6,534.2617
2.3953	16.3620	24.7057	0.0636	3.0877	0.5630	3.6507	0.8315	0.5297	1.3612	0.0000	6,327.3805	6,327.3805	0.6579	0.2907	6,430.4702
61.9090	16.2980	24.1977	0.0627	3.0877	0.5620	3.6498	0.8315	0.5288	1.3604	0.0000	6,234.4288	6,234.4288	0.7407	0.2828	6,335.0262
61.9090	27.9759	26.8601	0.0646	9.4708	1.1317	10.5583	4.6369	1.0412	5.6374	0.0000	6,428.4199	6,428.4199	1.9469	0.2995	6,534.2617

2.9602	27.9819	26.7865	0.0633	9.4708	1.1317	10.5583	4.6369	1.0412	5.6374	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587
2.2923	16.6833	23.7073	0.0614	3.0877	0.5630	3.6508	0.8315	0.5298	1.3613	0.0000	6,104.0165	6,104.0165	0.6635	0.2976	6,209.2748
61.8868	16.6093	23.2847	0.0605	3.0877	0.5621	3.6498	0.8315	0.5289	1.3604	0.0000	6,017.8022	6,017.8022	0.7421	0.2892	6,120.4430
61.8868	27.9819	26.7865	0.0633	9.4708	1.1317	10.5583	4.6369	1.0412	5.6374	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587

	ROG	NOx	CO	SO2	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					
2027	4.6367	27.9723	43.4444	0.1410	9.7643	1.1317	10.4004	4.5916	1.0411	5.5921	0.0000	14,293.8740	14,293.8740	1.9465	0.8824	14,576.3723
2028	4.4080	24.0353	41.8232	0.1382	9.7643	0.6332	10.3975	2.6274	0.5960	3.2235	0.0000	14,002.8969	14,002.8969	0.7662	0.8580	14,277.7213
2029	4.1960	23.8513	40.4432	0.1356	9.7643	0.6303	10.3946	2.6274	0.5934	3.2208	0.0000	13,734.8009	13,734.8009	0.7524	0.8356	14,002.6175
2030	3.9384	19.1672	39.3512	0.1372	9.7643	0.2483	10.0126	2.6274	0.2428	2.8703	0.0000	13,834.7338	13,834.7338	0.2557	0.8159	14,084.2503
2031	162.4707	19.0485	38.3490	0.1352	9.7643	0.3311	10.0103	2.6274	0.3310	2.8681	0.0000	13,620.0325	13,620.0325	0.2452	0.7988	13,864.2038
Maximum	162.4707	27.9723	43.4444	0.1410	9.7643	1.1317	10.4004	4.5916	1.0411	5.5921	0.0000	14,293.8740	14,293.8740	1.9465	0.8824	14,576.3723

Year	ROG	NOx	CO	SO2	PM10		PM2.5		Bi-CO2	NBP-CO2	Total CO2	CH4	N2O	CO2e		
					Fugitive PM10	Exhaust PM10	Fugitive PM2.5	Exhaust PM2.5								
	lb/day															
2027	4,3088	27,9777	40,2452	0,1340	9,7643	1,1317	10,4006	4,5916	1,0411	5,5921	0,0000	13,579,0379	13,579,0379	1,9469	0,9040	13,689,4292
2028	4,1080	24,8841	38,8871	0,1313	9,7643	0,6324	10,3977	2,8274	0,5962	3,2236	0,0000	13,308,6134	13,308,6134	0,7831	0,8783	13,590,9317
2029	3,9183	24,7724	37,7419	0,1289	9,7643	0,6305	10,3948	2,8274	0,5935	3,2210	0,0000	13,060,6349	13,060,6349	0,7684	0,8549	13,534,6065
2030	3,6839	20,0651	36,8393	0,1307	9,7643	0,2485	10,0128	2,8274	0,2430	2,8704	0,0000	13,177,4852	13,177,4852	0,2708	0,8243	13,432,8883
2031	162,4275	18,9271	35,9950	0,1288	9,7643	0,5311	10,0105	2,8274	0,3310	2,8683	0,0000	12,977,7311	12,977,7311	0,2564	0,8165	13,227,5231
Maximum	162,4275	27,9777	40,2452	0,1340	9,7643	1,1317	10,4006	4,5916	1,0411	5,5921	0,0000	13,579,0379	13,579,0379	1,9469	0,9040	13,689,4292

	ROG	NOx	CO	SO2	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					
2027	2.9621	27.9723	26.8218	0.0682	8.8581	1.1317	9.9456	4.5707	1.0411	5.5712	0.0000	6,820.1508	6,820.1508	1.9465	0.3843	6,951.0678
2028	2.2908	17.6591	24.0645	0.0672	3.1144	0.5707	3.6851	0.8437	0.5372	1.3808	0.0000	6,719.1166	6,719.1166	0.6515	0.3745	6,847.0100
2029	2.2289	17.5948	23.6595	0.0663	3.1144	0.5698	3.6842	0.8437	0.5363	1.3800	0.0000	6,625.2704	6,625.2704	0.6475	0.3655	6,750.3617
2030	2.1124	13.0086	23.3901	0.0695	3.1144	0.1895	3.3040	0.8437	0.1874	1.0311	0.0000	6,881.8271	6,881.8271	0.1593	0.3574	6,992.3104
2031	35.9874	12.9691	23.0967	0.0688	3.1144	0.3311	3.3032	0.8437	0.3310	1.0304	0.0000	6,806.6667	6,806.6667	0.1562	0.3504	6,914.9921
2032	35.9781	0.9094	2.8592	0.00644	0.4682	0.0219	0.4901	0.1242	0.0217	0.1460	0.0000	632.2102	632.2102	0.0174	0.00751	634.8844
Maximum	35.9874	27.9723	26.8218	0.0695	8.8581	1.1317	9.9456	4.5707	1.0411	5.5712	0.0000	6,881.8271	6,881.8271	1.9465	0.3843	6,992.3104

	ROG	NOx	CO	SO2	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					
2027	2.9558	27.9777	26.7549	0.0662	8.8581	1.1317	9.9456	4.5707	1.0411	5.5712	0.0000	6,615.7321	6,615.7321	1.9469	0.3909	6,748.7498
2028	2.2006	18.0609	23.2393	0.0652	3.1144	0.5708	3.6852	0.8437	0.5373	1.3809	0.0000	6,520.8860	6,520.8860	0.6563	0.3808	6,650.7616
2029	2.1457	17.9878	22.8990	0.0644	3.1144	0.5699	3.6843	0.8437	0.5364	1.3801	0.0000	6,432.5248	6,432.5248	0.6520	0.3714	6,559.4978
2030	2.0359	13.3943	22.6839	0.0676	3.1144	0.1896	3.3040	0.8437	0.1875	1.0312	0.0000	6,693.9344	6,693.9344	0.1635	0.3631	6,806.2137
2031	35.9750	13.3489	22.4363	0.0669	3.1144	0.3311	3.3033	0.8437	0.3310	1.0305	0.0000	6,623.0629	6,623.0629	0.1602	0.3559	6,733.1107
2032	35.9668	0.9190	2.7249	0.00608	0.4682	0.0219	0.4901	0.1242	0.0217	0.1460	0.0000	595.3859	595.3859	0.0182	0.00838	598.3408
Maximum	35.9750	27.9777	26.7549	0.0676	8.8581	1.1317	9.9456	4.5707	1.0411	5.5712	0.0000	6,693.9344	6,693.9344	1.9469	0.3909	6,806.2137

	ROG	NOx	CO	SO2	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					
2030	3.3289	17.9494	31.2073	0.1093	9.6632	0.4886	10.1004	4.6576	0.4885	5.0948	0.0000	10,989.6972	10,989.6972	0.2940	0.7081	11,205.8473
2031	2.8689	17.8682	30.5902	0.1078	6.4563	0.2292	6.6856	1.7471	0.2251	1.9721	0.0000	10,836.1420	10,836.1420	0.1995	0.6941	11,047.9717
2032	2.7690	17.8022	30.0837	0.1064	6.4563	0.2278	6.6842	1.7471	0.2238	1.9709	0.0000	10,700.2877	10,700.2877	0.1941	0.6821	10,908.4045
2033	2.6802	17.7474	29.6578	0.1053	6.4564	0.3310	6.6829	1.7471	0.3310	1.9697	0.0000	10,579.9628	10,579.9628	0.1893	0.6717	10,784.8694
2034	62.7416	7.1326	16.1092	0.0289	0.9858	0.3310	1.0090	0.2615	0.3310	0.3637	0.0000	2,745.6332	2,745.6332	0.1259	0.0150	2,749.3396
Maximum	62.7416	17.9494	31.2073	0.1093	9.6632	0.4886	10.1004	4.6576	0.4885	5.0948	0.0000	10,989.6972	10,989.6972	0.2940	0.7081	11,205.8473

	ROG	NOx	CO	SO2	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					
2030	3.3241	18.7155	29.7112	0.1053	9.6632	0.4886	10.1004	4.6576	0.4885	5.0948	0.0000	10,592.8399	10,592.8399	0.2943	0.7199	10,812.7387
2031	2.7220	18.6219	29.1907	0.1039	6.4563	0.2294	6.6857	1.7471	0.2252	1.9723	0.0000	10,448.3376	10,448.3376	0.2079	0.7055	10,663.7615
2032	2.6338	18.5461	28.7627	0.1027	6.4563	0.2280	6.6843	1.7471	0.2239	1.9710	0.0000	10,320.4670	10,320.4670	0.2020	0.6931	10,532.0536
2033	2.5557	18.4835	28.4021	0.1016	6.4564	0.3310	6.6831	1.7471	0.3310	1.9698	0.0000	10,207.1990	10,207.1990	0.1968	0.6824	10,415.4731
2034	62.7220	7.1348	16.0769	0.0288	0.9858	0.3310	1.0090	0.2615	0.3310	0.3637	0.0000	2,736.2773	2,736.2773	0.1261	0.0167	2,740.0532
Maximum	62.7220	18.7155	29.7112	0.1053	9.6632	0.4886	10.1004	4.6576	0.4885	5.0948	0.0000	10,592.8399	10,592.8399	0.2943	0.7199	10,812.7387

	ROG	NOx	CO	SO2	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					
2030	3.3289	13.8681	23.4326	0.0712	9.9302	0.4886	10.3674	4.6865	0.4885	5.1236	0.0000	7,341.5910	7,341.5910	0.2940	2.8400e-003	7,349.7881
2031	5.1105	29.2228	51.0911	0.2076	15.5192	0.4885	15.8458	4.1897	0.4885	4.5070	0.0000	21,129.4895	21,129.4895	0.3184	1.5022	21,585.1090
2032	4.8625	29.0666	49.8336	0.2046	15.5192	0.3232	15.8424	4.1897	0.3141	4.5038	0.0000	20,813.0979	20,813.0979	0.3048	1.4758	21,260.4902
2033	4.6418	28.9371	48.7745	0.2018	15.5192	0.3201	15.8393	4.1897	0.3112	4.5009	0.0000	20,532.8270	20,532.8270	0.2931	1.4529	20,973.1196
2034	4.4466	28.8155	47.8618	0.1994	15.5192	0.3171	15.8363	4.1897	0.3084	4.4981	0.0000	20,282.8097	20,282.8097	0.2828	1.4328	20,716.8496
2035	4.1817	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2036	4.1817	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2037	4.1817	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2038	112.2244	27.9267	47.0540	0.1973	15.5192	0.2565	15.7757	4.1897	0.2480	4.4377	0.0000	20,061.9832	20,061.9832	0.2656	1.4154	20,490.3968
2039	112.2244	0.9929	6.8179	0.0203	2.4562	0.0167	2.4729	0.6515	0.0161	0.6676	0.0000	2,031.6286	2,031.6286	0.0360	0.0367	2,043.4499
Maximum	112.2244	29.2228	51.0911	0.2076	15.5192	0.4886	15.8458	4.6865	0.4885	5.1236	0.0000	21,129.4895	21,129.4895	0.3184	1.5022	21,585.1090

	ROG	NOx	CO	SO2	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					
2030	3.3241	13.8721	23.3797	0.0711	9.9302	0.4886	10.3674	4.6865	0.4885	5.1236	0.0000	7,328.0961	7,328.0961	0.2943	3.1700e-003	7,336.4004
2031	4.7506	30.8614	47.5698	0.1980	15.5192	0.4885	15.8461	4.1897	0.4885	4.5073	0.0000	20,160.3619	20,160.3619	0.3396	1.5298	20,624.7422
2032	4.5316	30.6815	46.5078	0.1952	15.5192	0.3236	15.8427	4.1897	0.3145	4.5041	0.0000	19,863.8931	19,863.8931	0.3248	1.5024	20,319.7390
2033	4.3376	30.5330	45.6112	0.1926	15.5192	0.3204	15.8396	4.1897	0.3116	4.5012	0.0000	19,601.2261	19,601.2261	0.3120	1.4788	20,049.7199
2034	4.1690	30.3954	44.8369	0.1903	15.5192	0.3174	15.8366	4.1897	0.3087	4.4984	0.0000	19,366.7383	19,366.7383	0.3007	1.4581	19,808.7741
2035	3.9290	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.5237	19,159.5237	0.2826	1.4402	19,595.7688
2036	3.9290	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.5237	19,159.5237	0.2826	1.4402	19,595.7688
2037	3.9290	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.5237	19,159.5237	0.2826	1.4402	19,595.7688
2038	112.1807	29.4930	44.1423	0.1883	15.5192	0.2568	15.7760	4.1897	0.2483	4.4380	0.0000	19,159.5237	19,159.5237	0.2826	1.4402	19,595.7688
2039	112.1807	1.0350	6.1954	0.0185	2.4562	0.0167	2.4729	0.6515	0.0161	0.6676	0.0000	1,847.8744	1,847.8744	0.0396	0.0409	1,861.0498
Maximum	112.1807	30.8614	47.5698	0.1980	15.5192	0.4886	15.8461	4.6865	0.4885	5.1236	0.0000	20,160.3619	20,160.3619	0.3396	1.5298	20,624.7422

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
lbs/day										
2025	5,5094	53,2473	45,3223	0,1029	12,5253	2,2193	14,7446	6,1695	2,0418	8,2313
2026	6,6767	47,3568	62,3452	0,1652	15,8642	1,2263	17,5463	6,3637	1,6006	7,9136
2027	13,5354	91,5281	129,1424	0,3714	28,1035	3,4190	30,9828	11,7106	3,1695	14,7989
2028	185,5145	77,0848	123,1684	0,3649	22,3598	2,3566	24,7166	6,0194	2,2178	8,2373
2029	123,3037	42,7513	68,7823	0,2135	13,9713	1,2561	15,2273	3,7609	1,1853	4,9462
2030	12,7086	63,9933	117,3812	0,3872	32,4721	1,4150	33,7844	12,8152	1,4072	14,1198
2031	206,4375	79,1086	143,1270	0,5194	34,8542	1,3799	35,8449	9,4079	1,3756	10,3776
2032	43,6096	47,7782	82,7765	0,3174	22,4437	0,5729	23,0167	6,0610	0,5596	6,6207
2033	7,3220	46,6845	78,4323	0,3071	21,9756	0,6511	22,5222	5,9368	0,6422	6,4706
2034	67,1882	35,9481	63,9710	0,2283	16,5050	0,6481	16,8453	4,4512	0,6394	4,8618
2035	4,1817	27,9267	47,0540	0,1973	15,5192	0,2565	15,7757	4,1897	0,2480	4,4377
2036	4,1817	27,9267	47,0540	0,1973	15,5192	0,2565	15,7757	4,1897	0,2480	4,4377
2037	4,1817	27,9267	47,0540	0,1973	15,5192	0,2565	15,7757	4,1897	0,2480	4,4377
2038	112,2244	27,9267	47,0540	0,1973	15,5192	0,2565	15,7757	4,1897	0,2480	4,4377
2039	112,2244	0,9929	6,8179	0,0203	2,4562	0,0167	2,4729	0,6515	0,0161	0,6676
Maximum	206,4375	91,5281	143,1270	0,5194	34,8542	3,4190	35,8449	12,8152	3,1695	14,7989

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
lbs/day										
2025	5,4949	53,2603	45,1699	0,1026	12,5253	2,2193	14,7446	6,1895	2,0418	8,2313
2026	6,4302	47,9665	59,8776	0,1589	15,8642	1,7264	17,5464	6,3537	1,6007	7,9137
2027	12,8788	92,4395	122,7094	0,3554	28,1035	3,4192	30,9832	11,7106	3,1697	14,7991
2028	185,0618	79,3051	116,5198	0,3491	22,3598	2,3571	24,7170	6,0194	2,2183	8,2376
2029	122,9077	44,0946	64,9430	0,2040	13,9713	1,2564	15,2276	3,7609	1,1855	4,9465
2030	12,3680	66,0470	112,6131	0,3747	32,4721	1,4153	33,7846	12,8152	1,4075	14,1200
2031	205,8751	82,7593	135,1918	0,4976	34,8542	1,3801	35,8456	9,4079	1,3757	10,3784
2032	43,1322	50,1466	77,9954	0,3040	22,4437	0,5735	23,0171	6,0610	0,5601	6,6211
2033	6,8933	49,0165	74,0133	0,2942	21,9756	0,6514	22,5227	5,9368	0,6426	6,4710
2034	66,8910	37,5302	60,9138	0,2191	16,5050	0,6484	16,8456	4,4512	0,6397	4,8621
2035	3,9290	29,4930	44,1423	0,1883	15,5192	0,2568	15,7760	4,1897	0,2483	4,4380
2036	3,9290	29,4930	44,1423	0,1883	15,5192	0,2568	15,7760	4,1897	0,2483	4,4380
2037	3,9290	29,4930	44,1423	0,1883	15,5192	0,2568	15,7760	4,1897	0,2483	4,4380
2038	112,1807	29,4930	44,1423	0,1883	15,5192	0,2568	15,7760	4,1897	0,2483	4,4380
2039	112,1807	1,0350	6,1954	0,0185	2,4562	0,0167	2,4729	0,6515	0,0161	0,6676
Maximum	205,8751	92,4395	135,1918	0,4976	34,8542	3,4192	35,8456	12,8152	3,1697	14,7991

	ROG	NOx	CO	SO2	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					
2025	3.0606	10.0248	38.3239	0.1025	9.3144	0.1625	9.4008	4.6200	0.1571	4.7042	0.0000	10,307.6045	10,307.6045	1.9473	0.5462	10,489.0457
2026	2.8757	9.8517	36.9801	0.1006	6.3934	0.1612	6.5547	1.7168	0.1560	1.8728	0.0000	10,114.6068	10,114.6068	0.7338	0.5290	10,290.5901
2027	2.7073	9.6933	35.6655	0.0986	6.3934	0.1593	6.5527	1.7168	0.1542	1.8710	0.0000	9,912.5739	9,912.5739	0.7211	0.5126	10,083.3676
2028	116.9067	9.5642	34.5780	0.0968	6.3934	0.1574	6.5508	1.7168	0.1524	1.8692	0.0000	9,727.2576	9,727.2576	0.7160	0.4979	9,893.3914
2029	116.8788	1.3052	4.6796	0.0116	1.0926	0.0560	1.1485	0.2898	0.0556	0.3454	0.0000	1,157.1741	1,157.1741	0.0336	0.0198	1,163.9108
Maximum	116.9067	10.0248	38.3239	0.1025	9.3144	0.1625	9.4008	4.6200	0.1571	4.7042	0.0000	10,307.6045	10,307.6045	1.9473	0.5462	10,489.0457

	ROG	NOx	CO	SO2	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					
2025	2.7973	10.6588	35.7117	0.0974	9.3144	0.1626	9.4008	4.6200	0.1572	4.7042	0.0000	9,792.3325	9,792.3325	1.9477	0.5627	9,979.0420
2026	2.6360	10.4564	34.5861	0.0956	6.3934	0.1613	6.5548	1.7168	0.1561	1.8729	0.0000	9,615.3022	9,615.3022	0.7467	0.5443	9,796.1781
2027	2.4882	10.2726	33.4969	0.0938	6.3934	0.1594	6.5528	1.7168	0.1543	1.8711	0.0000	9,429.5809	9,429.5809	0.7333	0.5270	9,604.9500
2028	116.8684	10.1226	32.5937	0.0921	6.3934	0.1575	6.5509	1.7168	0.1525	1.8693	0.0000	9,258.8114	9,258.8114	0.7220	0.5114	9,429.2536
2029	116.8437	1.3344	4.3021	0.0107	1.0926	0.0560	1.1485	0.2898	0.0556	0.3454	0.0000	1,065.1354	1,065.1354	0.0359	0.0221	1,072.6217
Maximum	116.8684	10.6588	35.7117	0.0974	9.3144	0.1626	9.4008	4.6200	0.1572	4.7042	0.0000	9,792.3325	9,792.3325	1.9477	0.5627	9,979.0420

	ROG	NOx	CO	SO2	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					
2026	1.6399	6.9127	33.5012	0.0646	9.4708	0.1306	9.5571	4.6369	0.1272	4.7211	0.0000	6,428.4199	6,428.4199	1.9469	0.2995	6,534.2617
2027	1.5613	6.8338	26.2007	0.0636	3.0877	0.1296	3.2173	0.8315	0.1263	0.9578	0.0000	6,327.3805	6,327.3805	0.6579	0.2907	6,430.4702
2028	61.2743	6.7698	25.6927	0.0627	3.0877	0.1287	3.2164	0.8315	0.1254	0.9569	0.0000	6,234.4288	6,234.4288	0.7407	0.2828	6,335.0262
Maximum	61.2743	6.9127	33.5012	0.0646	9.4708	0.1306	9.5571	4.6369	0.1272	4.7211	0.0000	6,428.4199	6,428.4199	1.9469	0.2995	6,534.2617

	ROG	NOx	CO	SO2	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					
2026	1.5274	7.2463	33.4275	0.0633	9.4708	0.1306	9.5571	4.6369	0.1272	4.7211	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587
2027	1.4584	7.1551	25.2023	0.0614	3.0877	0.1297	3.2174	0.8315	0.1263	0.9578	0.0000	6,104.0165	6,104.0165	0.6635	0.2976	6,209.2748
2028	61.2521	7.0811	24.7797	0.0605	3.0877	0.1288	3.2165	0.8315	0.1255	0.9570	0.0000	6,017.8022	6,017.8022	0.7421	0.2892	6,120.4430
Maximum	61.2521	7.2463	33.4275	0.0633	9.4708	0.1306	9.5571	4.6369	0.1272	4.7211	0.0000	6,197.4995	6,197.4995	1.9473	0.3068	6,305.6587

2027	3.8027	14.7081	44.9394	0.1410	9.7643 0.2028	9.9671	4.5916	0.1953	4.6758	0.0000	14.239.8740	14.239.8740	1.9465	0.8824	14.576.3723
2028	3.5341	14.5071	43.3181	0.1382	9.7643 0.1998	9.9641	2.8274	0.1926	2.8200	0.0000	14.002.8889	14.002.8889	0.7862	0.8580	14.277.7213
2029	3.3621	14.3232	41.9381	0.1356	9.7643 0.1970	9.9613	2.8274	0.1899	2.8174	0.0000	13.734.8009	13.734.8009	0.7524	0.8356	14.002.6175
2030	3.1194	13.9802	40.7602	0.1372	9.7643 0.1889	9.9232	2.8274	0.1534	2.7808	0.0000	13.834.7339	13.834.7339	0.2557	0.8159	14.094.2593
2031	162.2707	13.8115	39.7590	0.1382	9.7643 0.1565	9.9208	2.8274	0.1512	2.7866	0.0000	13.820.0325	13.820.0325	0.2452	0.7999	13.864.2038
Maximum	162.2707	14.7081	44.9394	0.1410	9.7643 0.2028	9.9671	4.5916	0.1953	4.6758	0.0000	14.239.8740	14.239.8740	1.9465	0.8824	14.576.3723

	ROG	NOx	CO	SO2	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					
2027	3.4747	15.6887	41.7402	0.1340	9.7643	0.2030	9.9673	4.5916	0.1955	4.6758	0.0000	13,579.0379	13,579.0379	1.9469	0.9040	13,868.4292
2028	3.2721	15.4559	40.3920	0.1313	9.7643	0.2000	9.9643	2.6274	0.1928	2.8202	0.0000	13,309.6134	13,309.6134	0.7831	0.8783	13,590.9317
2029	3.0844	15.2442	39.2369	0.1289	9.7643	0.1972	9.9615	2.6274	0.1901	2.8176	0.0000	13,060.6349	13,060.6349	0.7684	0.8549	13,334.6065
2030	2.8650	14.8281	38.2474	0.1307	9.7643	0.1590	9.9233	2.6274	0.1535	2.7810	0.0000	13,177.4852	13,177.4852	0.2708	0.8343	13,432.8683
2031	162.4275	14.6901	37.4040	0.1288	9.7643	0.1567	9.9210	2.6274	0.1514	2.7788	0.0000	12,977.7311	12,977.7311	0.2594	0.8165	13,227.5211
Maximum	162.4275	15.6887	41.7402	0.1340	9.7643	0.2030	9.9673	4.5916	0.1955	4.6758	0.0000	13,579.0379	13,579.0379	1.9469	0.9040	13,868.4292

2027	1.5237	8.1989	33.4628	0.0682	8.8581	0.1383	8.9444	4.5707	0.1346	4.6549	0.0000	6,820.1508	6,820.1508	1.9465	0.3843	6,951.0678
2028	1.4569	8.1309	25.5595	0.0672	3.1144	0.1374	3.2518	0.8437	0.1338	0.9774	0.0000	6,719.1166	6,719.1166	0.6515	0.3745	6,847.0100
2029	1.3949	8.0666	25.1544	0.0663	3.1144	0.1364	3.2508	0.8437	0.1329	0.9766	0.0000	6,625.2704	6,625.2704	0.6475	0.3655	6,750.3617
2030	1.2935	7.7716	24.7991	0.0695	3.1144	0.1001	3.2145	0.8437	0.0980	0.9416	0.0000	6,881.8271	6,881.8271	0.1593	0.3574	6,992.3104
2031	35.9874	7.7321	24.5057	0.0688	3.1144	0.0993	3.2137	0.8437	0.0973	0.9410	0.0000	6,806.6667	6,806.6667	0.1562	0.3504	6,914.9921
2032	35.9781	0.9094	2.8592	6.4400e-003	0.4682	0.0219	0.4901	0.1242	0.0217	0.1460	0.0000	632.2102	632.2102	0.0174	7.5100e-003	634.8844
Maximum	35.9874	8.1989	33.4628	0.0695	8.8581	0.1383	8.9444	4.5707	0.1346	4.6549	0.0000	6,881.8271	6,881.8271	1.9465	0.3843	6,992.3104

	ROG	NOx	CO	SO2	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					
2027	1.4260	8.6107	33.3960	0.0662	8.8581	0.1384	8.9444	4.5707	0.1347	4.6549	0.0000	6,615.7321	6,615.7321	1.9469	0.3909	6,748.7498
2028	1.3666	8.5327	24.7342	0.0652	3.1144	0.1375	3.2519	0.8437	0.1338	0.9775	0.0000	6,520.8860	6,520.8860	0.6563	0.3808	6,650.7616
2029	1.3117	8.4596	24.3940	0.0644	3.1144	0.1365	3.2509	0.8437	0.1330	0.9766	0.0000	6,432.5248	6,432.5248	0.6520	0.3714	6,559.4978
2030	1.2170	8.1573	24.0930	0.0676	3.1144	0.1002	3.2146	0.8437	0.0980	0.9417	0.0000	6,693.9344	6,693.9344	0.1635	0.3631	6,806.2137
2031	35.9750	8.1119	23.8454	0.0669	3.1144	0.0994	3.2138	0.8437	0.0974	0.9410	0.0000	6,623.0629	6,623.0629	0.1602	0.3559	6,733.1107
2032	35.9668	0.9190	2.7249	6.0800e-003	0.4682	0.0219	0.4901	0.1242	0.0217	0.1460	0.0000	595.3859	595.3859	0.0182	8.3800e-003	598.3408
Maximum	35.9750	8.6107	33.3960	0.0676	8.8581	0.1384	8.9444	4.5707	0.1347	4.6549	0.0000	6,693.9344	6,693.9344	1.9469	0.3909	6,806.2137

	ROG	NOx	CO	SO2	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					
2030	2.1674	12.7124	33.4086	0.1093	9.6632	0.1413	9.7325	4.6576	0.1370	4.7269	0.0000	10,989.6972	10,989.6972	0.2940	0.7081	11,205.8473
2031	2.0500	12.6312	31.9992	0.1078	6.4563	0.1398	6.5961	1.7471	0.1356	1.8827	0.0000	10,836.1420	10,836.1420	0.1995	0.6941	11,047.9717
2032	1.9501	12.5652	31.4927	0.1064	6.4563	0.1384	6.5947	1.7471	0.1343	1.8814	0.0000	10,700.2877	10,700.2877	0.1941	0.6821	10,908.4045
2033	1.8613	12.5104	31.0668	0.1053	6.4564	0.1371	6.5934	1.7471	0.1331	1.8802	0.0000	10,579.9628	10,579.9628	0.1893	0.6717	10,784.8694
2034	62.7416	1.2277	17.5554	0.0289	0.9858	0.0378	1.0090	0.2615	0.0377	0.2844	0.0000	2,745.6332	2,745.6332	0.1259	0.0150	2,749.3396
Maximum	62.7416	12.7124	33.4086	0.1093	9.6632	0.1413	9.7325	4.6576	0.1370	4.7269	0.0000	10,989.6972	10,989.6972	0.2940	0.7081	11,205.8473

	ROG	NOx	CO	SO2	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					
2030	2.0073	13.4785	33.3557	0.1053	9.6632	0.1415	9.7325	4.6576	0.1372	4.7269	0.0000	10,592.8399	10,592.8399	0.2943	0.7199	10,812.7387
2031	1.9031	13.3849	30.5997	0.1039	6.4563	0.1399	6.5963	1.7471	0.1358	1.8828	0.0000	10,448.3376	10,448.3376	0.2079	0.7055	10,663.7615
2032	1.8149	13.3091	30.1717	0.1027	6.4563	0.1385	6.5949	1.7471	0.1345	1.8815	0.0000	10,320.4670	10,320.4670	0.2020	0.6931	10,532.0536
2033	1.7368	13.2465	29.8111	0.1016	6.4564	0.1372	6.5936	1.7471	0.1333	1.8803	0.0000	10,207.1990	10,207.1990	0.1968	0.6824	10,415.4731
2034	62.7220	1.2300	17.5230	0.0288	0.9858	0.0378	1.0090	0.2615	0.0377	0.2844	0.0000	2,736.2773	2,736.2773	0.1261	0.0167	2,740.0532
Maximum	62.7220	13.4785	33.3557	0.1053	9.6632	0.1415	9.7325	4.6576	0.1372	4.7269	0.0000	10,592.8399	10,592.8399	0.2943	0.7199	10,812.7387

Year	ROG	NOx	CO	SO2	Fugitive PM10	PM10		Fugitive PM2.5	PM2.5		Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
						Exhaust PM10	Total		Exhaust PM2.5	Total						
lb/day																
2030	0.8420	3.5292	33.4088	0.0712	9.9392	0.055	9.9995	4.8865	0.1055	4.7557	0.0000	7.3415910	7.3415910	0.2940	0.00284	7.3497891
2031	4.2916	23.9858	52.5402	0.2076	15.5192	0.2372	15.7563	4.1897	0.2278	4.4175	0.0000	21.1294895	21.1294895	0.3184	1.5222	21.5951090
2032	4.0435	23.8298	51.2427	0.2046	15.5192	0.2338	15.7529	4.1897	0.2247	4.4144	0.0000	20.819.0979	20.819.0979	0.3048	1.4759	21.2604802
2033	3.8229	23.7001	50.1435	0.2018	15.5192	0.2306	15.7489	4.1897	0.2218	4.4115	0.0000	20.532.8270	20.532.8270	0.2931	1.4529	20.973.1196
2034	3.6277	23.5785	49.2708	0.1994	15.5192	0.2276	15.7468	4.1897	0.2190	4.4086	0.0000	20.292.8097	20.292.8097	0.2828	1.4329	20.7163486
2035	3.4366	23.3965	48.4380	0.1973	15.5192	0.2144	15.7336	4.1897	0.2059	4.3956	0.0000	20.061.9832	20.061.9832	0.2656	1.4154	20.490.3968
2036	3.4366	23.3965	48.4380	0.1973	15.5192	0.2144	15.7336	4.1897	0.2059	4.3956	0.0000	20.061.9832	20.061.9832	0.2656	1.4154	20.490.3968
2037	3.4366	23.3965	48.4380	0.1973	15.5192	0.2144	15.7336	4.1897	0.2059	4.3956	0.0000	20.061.9832	20.061.9832	0.2656	1.4154	20.490.3968
2038	112.2244	23.3965	48.4380	0.1973	15.5192	0.2144	15.7336	4.1897	0.2059	4.3956	0.0000	20.061.9832	20.061.9832	0.2656	1.4154	20.490.3968
2039	112.2244	0.9829	6.8179	0.0203	2.4982	0.0167	2.4729	0.6515	0.0161	0.6676	0.0000	2.031.6286	2.031.6286	0.0360	0.0367	2.063.4493
Maximum	112.2244	23.9858	52.5002	0.2076	15.5192	0.2372	15.7563	4.8865	0.2278	4.7557	0.0000	21.129.4895	21.129.4895	0.3184	1.5222	21.595.1090

2030	0.8371	3.5332	33.3557	0.0711	9.9302	0.1055	9.9995	4.6865	0.1055	4.7557	0.0000	7,328.0961	7,328.0961	0.2943	3.1700e-003	7,336.4004
2031	3.9316	25.6244	48.9789	0.1980	15.5192	0.2375	15.7567	4.1897	0.2281	4.4178	0.0000	20,160.3619	20,160.3619	0.3396	1.5298	20,624.7422
2032	3.7126	25.4445	47.9168	0.1952	15.5192	0.2341	15.7533	4.1897	0.2250	4.4147	0.0000	19,863.8931	19,863.8931	0.3248	1.5024	20,319.7390
2033	3.5187	25.2960	47.0202	0.1926	15.5192	0.2310	15.7502	4.1897	0.2221	4.4118	0.0000	19,601.2261	19,601.2261	0.3120	1.4788	20,049.7199
2034	3.3501	25.1584	46.2460	0.1903	15.5192	0.2279	15.7471	4.1897	0.2193	4.4090	0.0000	19,366.7383	19,366.7383	0.3007	1.4581	19,808.7741
2035	3.1839	24.9628	45.5763	0.1883	15.5192	0.2147	15.7339	4.1897	0.2062	4.3959	0.0000	19,159.5237	19,159.5237	0.2826	1.4402	19,595.7688
2036	3.1839	24.9628	45.5763	0.1883	15.5192	0.2147	15.7339	4.1897	0.2062	4.3959	0.0000	19,159.5237	19,159.5237	0.2826	1.4402	19,595.7688
2037	3.1839	24.9628	45.5763	0.1883	15.5192	0.2147	15.7339	4.1897	0.2062	4.3959	0.0000	19,159.5237	19,159.5237	0.2826	1.4402	19,595.7688
2038	112.1807	24.9628	45.5763	0.1883	15.5192	0.2147	15.7339	4.1897	0.2062	4.3959	0.0000	19,159.5237	19,159.5237	0.2826	1.4402	19,595.7688
2039	112.1807	1.0350	6.1954	0.0185	2.4562	0.0167	2.4729	0.6515	0.0161	0.6676	0.0000	1,847.8744	1,847.8744	0.0396	0.0409	1,861.0498
Maximum	112.1807	25.6244	48.9789	0.1980	15.5192	0.2375	15.7567	4.6865	0.2281	4.7557	0.0000	20,160.3619	20,160.3619	0.3396	1.5298	20,624.7422

Year	ROG	NOx	CO	SO2	lbs/day							
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total		
2025	3,0606	10,0248	38,3239	0,1025	9,3144	0,1625	9,4008	4,6200	0,1571	4,7042		
2026	4,5156	16,7644	70,4813	0,1652	15,8642	0,2918	16,1118	6,3537	0,2832	6,5939		
2027	9,5950	39,4341	140,2684	0,3714	28,1035	0,6300	28,6815	11,7106	0,6104	12,1595		
2028	183,2120	38,9720	129,1483	0,3649	22,3598	0,6233	22,9831	6,0194	0,6042	6,6235		
2029	121,6358	23,6950	71,7721	0,2135	13,9713	0,3894	14,3606	3,7609	0,3784	4,1394		
2030	7,4223	37,9434	132,3765	0,3872	32,4721	0,5058	32,8697	12,8152	0,4939	13,2050		
2031	204,7997	58,1606	148,7631	0,5194	34,8542	0,6328	35,4869	9,4079	0,6119	10,0198		
2032	5,9936	36,3948	82,7354	0,3110	21,9755	0,3722	22,3476	5,9368	0,3590	6,2958		
2033	5,6842	36,2105	81,2503	0,3071	21,9756	0,3677	22,3432	5,9368	0,3549	6,2917		
2034	66,3693	24,8062	66,8262	0,2283	16,5050	0,2654	16,7558	4,4512	0,2567	4,6930		
2035	3,4366	23,3965	48,4880	0,1973	15,5192	0,2144	15,7336	4,1897	0,2059	4,3956		
2036	3,4366	23,3965	48,4880	0,1973	15,5192	0,2144	15,7336	4,1897	0,2059	4,3956		
2037	3,4366	23,3965	48,4880	0,1973	15,5192	0,2144	15,7336	4,1897	0,2059	4,3956		
2038	112,2244	23,3965	48,4880	0,1973	15,5192	0,2144	15,7336	4,1897	0,2059	4,3956		
2039	112,2244	0,9929	6,8179	0,0203	2,4562	0,0167	2,4729	0,6515	0,0161	0,6676		
Maximum	204,7997	58,1606	148,7631	0,5194	34,8542	0,6328	35,4869	12,8152	0,6119	13,2050		

Year	ROG	NOx	CO	SO2	lbs/day							
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total		
2025	2.7973	10.6588	35.7117	0.0974	9.3144	0.1626	9.4008	4.6200	0.1572	4.7042		
2026	4.1634	17.7027	68.0136	0.1589	15.8642	0.2919	16.1119	6.3337	0.2833	6.5940		
2027	8.8473	41.7271	133.8354	0.3554	28.1035	0.6305	28.6819	11.7106	0.6108	12.1596		
2028	182.7592	41.1923	122.4996	0.3491	22.3598	0.6238	22.9836	6.0194	0.6046	6.6240		
2029	121.2398	25.0382	67.9330	0.2040	13.9713	0.3897	14.3609	3.7609	0.3787	4.1396		
2030	6.9284	39.9971	129.0518	0.3747	32.4721	0.5062	32.8699	12.8152	0.4942	13.2053		
2031	204.2372	61.8113	140.8280	0.4976	34.8542	0.6335	35.4878	9.4079	0.6127	10.0204		
2032	5.5275	38.7536	78.0885	0.2979	21.9755	0.3726	22.3482	5.9368	0.3595	6.2962		
2033	5.2555	38.5425	76.8313	0.2942	21.9756	0.3682	22.3438	5.9368	0.3554	6.2921		
2034	66.0721	26.3884	63.7690	0.2191	16.5050	0.2657	16.7561	4.4512	0.2570	4.6934		
2035	3.1839	24.9628	45.5763	0.1883	15.5192	0.2147	15.7339	4.1897	0.2062	4.3959		
2036	3.1839	24.9628	45.5763	0.1883	15.5192	0.2147	15.7339	4.1897	0.2062	4.3959		
2037	3.1839	24.9628	45.5763	0.1883	15.5192	0.2147	15.7339	4.1897	0.2062	4.3959		
2038	112.1807	24.9628	45.5763	0.1883	15.5192	0.2147	15.7339	4.1897	0.2062	4.3959		
2039	112.1807	1.0350	6.1954	0.0185	2.4562	0.0167	2.4729	0.6515	0.0161	0.6676		
Maximum	204.2372	61.8113	140.8280	0.4976	34.8542	0.6335	35.4878	12.8152	0.6127	13.2053		

	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	tons/yr										MT/yr					
Apartments High Rise	16,045,000	0.0865	0.7393	0.3146	0.00472		0.0598	0.0598		0.0598	0.0598	0.0000	856.2238	856.2238	0.0164	0.0157	861.3119
City Park	-	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	7,415,540	0.0400	0.3417	0.1454	0.00218		0.0276	0.0276		0.0276	0.0276	0.0000	395.7214	395.7214	0.00758	0.00725	398.0730
Convenience Market (24 hour)	2,153,830	0.0116	0.1056	0.0887	0.00063		0.00802	0.00802		0.00802	0.00802	0.0000	114.9366	114.9366	0.0022	0.00211	115.6196
Convenience Market with Gas Pumps	530500																
Elementary School	21675500																
Free-Standing Discount store	344825																
Junior High School	877481																
Office Park	5,414,400	0.0292	0.2654	0.2230	0.00159		0.0202	0.0202		0.0202	0.0202	0.0000	288.9330	288.9330	0.00554	0.0053	290.6500
Regional Shopping Center	5,034,445	0.0240	0.2184	0.1835	0.00131		0.0166	0.0166		0.0166	0.0166	0.0000	237.7998	237.7998	0.00456	0.00436	239.2129
Single Family Housing	90,795,650	0.4796	4.0982	1.7439	0.0262		0.3313	0.3313		0.3313	0.3313	0.0000	4746.12	4746.12	0.0910	0.0870	4744.32
University/College (4yr)	40,233,300	0.2169	1.9722	1.6567	0.0118		0.1499	0.1499		0.1499	0.1499	0.0000	2147	2147	0.0412	0.0394	2159.76
Total	#####	0.8879	7.7409	4.3557	0.0484		0.6134	0.6134		0.6134	0.6134	0.0000	8786.74	8786.74	0.1684	0.1611	8838.95

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	5,372,800	497.1121	0.0804	0.00975	502.0276
City Park	-	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2,205,750	204.0844	0.0330	0.004	206.1024
Convenience Market (24 hour)	1,607,760	148.7560	0.0241	0.00292	150.2270
Convenience Market with Gas Pumps	391350				
Elementary School	5827460				
Free-Standing Discount store	254378				
Junior High School	235911				
Office Park	2,704,800	250.2583	0.0405	0.00491	252.7329
Regional Shopping Center	3,326,400	307.7711	0.0498	0.00604	310.8144
Single Family Housing	29,503,700	2729.79	0.4416	0.0535	2756.78
University/College (4yr)	20,401,500	1887.63	0.3054	0.0370	1906.29
Total	71,831,809	6025.4	0.9748	0.1182	6085

20401500

	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	tons/yr										MT/yr					
Apartments High Rise	16045000	0.0865	0.7393	0.3146	0.00472		0.0598	0.0598		0.0598	0.0598	0.0000	856.2238	856.2238	0.0164	0.0157	861.3119
City Park	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	0.0000
Condo/Townhouse	7415540	0.0400	0.3417	0.1454	0.00218		0.0276	0.0276		0.0276	0.0276	0.0000	395.7214	395.7214	0.00758	0.00725	398.0730
Convenience Market (24 hour)	2153830	0.0116	0.1056	0.0887	0.00063		0.00802	0.00802		0.00802	0.00802	0.0000	114.9366	114.9366	0.0022	0.00211	115.6196
Office Park	5414400	0.0292	0.2654	0.2230	0.00159		0.0202	0.0202		0.0202	0.0202	0.0000	288.9330	288.9330	0.00554	0.0053	290.6500
Regional Shopping Center	4456200	0.0240	0.2184	0.1835	0.00131		0.0166	0.0166		0.0166	0.0166	0.0000	237.7998	237.7998	0.00456	0.00436	239.2129
Single Family Housing	88938900	0.4796	4.0982	1.7439	0.0262		0.3313	0.3313		0.3313	0.3313	0.0000	4746.12	4746.12	0.0910	0.0870	4744.32
University/College (4yr)	40233300	0.2169	1.9722	1.6567	0.0118		0.1499	0.1499		0.1499	0.1499	0.0000	2147	2147	0.0412	0.0394	2159.76
Total		0.8879	7.7409	4.3557	0.0484		0.6134	0.6134		0.6134	0.6134	0.0000	8786.74	8786.74	0.1684	0.1611	8838.95

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	5372800	497.1121	0.0804	0.00975	502.0276
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2205750	204.0844	0.0330	0.004	206.1024
Convenience Market (24 hour)	1607760	148.7560	0.0241	0.00292	150.2270
Office Park	2704800	250.2583	0.0405	0.00491	252.7329
Regional Shopping Center	3326400	307.7711	0.0498	0.00604	310.8144
Single Family Housing	29503700	2729.79	0.4416	0.0535	2756.78
University/College (4yr)	20401500	1887.63	0.3054	0.0370	1906.29
Total		6025.4	0.9748	0.1182	6085

20401500

	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	tons/yr										MT/yr						
Apartments High Rise	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	0.0000	0.0000
City Park	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	0.0000	0.0000
Condo/Townhouse	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	0.0000	0.0000
Convenience Market with Gas Pumps	530500	0.00286	0.0260	0.0218	0.00016		0.00198	0.00198		0.00198	0.00198	0.0000	28.3095	28.3095	0.00054	0.00052	28.4777	
Elementary School	21675500	0.1169	1.0625	0.8925	0.000683		0.0808	0.0808		0.0808	0.0808	0.0000	1156.68	1156.68	0.0222	0.0212	1163.56	
Free-Standing Discount store	344825	0.00186	0.0169	0.0142	0.0001		0.00128	0.00128		0.00128	0.00128	0.0000	18.4012	18.4012	0.00035	0.00034	18.5105	
Junior High School	877481	0.00473	0.0430	0.0361	0.00026		0.00327	0.00327		0.00327	0.00327	0.0000	46.8257	46.8257	0.0009	0.00086	47.1040	
Office Park	12408000	0.0669	0.6082	0.5109	0.00365		0.0462	0.0462		0.0462	0.0462	0.0000	662.1381	662.1381	0.0127	0.0121	666.0729	
Regional Shopping Center	1856750	0.0100	0.0910	0.0765	0.00055		0.00692	0.00692		0.00692	0.00692	0.0000	99.0833	99.0833	0.0019	0.00182	99.6721	
Regional Shopping Center	578245	0.00312	0.0284	0.0238	0.00017		0.00215	0.00215		0.00215	0.00215	0.0000	30.8574	30.8574	0.00059	0.00057	31.0407	
Single Family Housing	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	0.0000	0.0000
Total	38271301	0.2064	1.8760	1.5759	0.0113		0.1426	0.1426		0.1426	0.1426	0.0000	2042.3	2042.3	0.0391	0.0375	2954.43	

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Convenience Market with Gas Pumps	391350	69.2693	0.00586	0.00071	69.6273
Elementary School	5827460	1031.46	0.0872	0.0106	1036.8
Free-Standing Discount store	254378	45.0250	0.00381	0.00046	45.2578
Junior High School	235911	41.7565	0.00353	0.00043	41.9723
Office Park	6163850	1091.01	0.0923	0.0112	1096.65
Regional Shopping Center	1369730	242.4424	0.0205	0.00249	243.6956
Regional Shopping Center	426572	75.5035	0.00693	0.00077	75.8938
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total	14669251	2,596.4678	0.2196	0.0266	2,609.8886

# of Days				Off Model Adjustments	
(CalEEMod default)	% of year	Adjusted # of Days			
10000	5%	250			
6000	3%	150			
15500	8%	388			
155000	78%	3900			
11000	6%	275			
11000	6%	275			
198500		4988			
End Date	Start Date				
1/1/2040	12/30/2059				
				3124 Adjusted Arch Coating Days	
				based on 2/3 building days plus paving and arch coating	
			150.25	Unmitigated ROG	
				lb/day (2049)	
			41318.75	ROG X Arch Tech Days	
			20.79201	Adjusted ROG (2039) (lbs per day)	
			3.794542	Adjusted ROG (2039) (tons/year)	

1 ton/year = 5.479 lbs/day

1 lb/day = .1825 tons/year

27.4 tons/year = 150.2 lbs/day

150.245138

# of Days			
<u>(CalEEMod default)</u>	<u>% of year</u>	<u>Adjusted # of Days</u>	<u>Off Model Adjustments</u>
10000	5%	250	3124 Adjusted Arch Coating Days
6000	3%	150	based on 2/3 building days plus paving and arch coating
15500	8%	388	239.6 Unmitigated ROG
155000	78%	3900	lb/day (2049)
11000	6%	275	65890 ROG X Arch Tech Days
11000	6%	275	13.0384 Adjusted ROG (2039) (lbs per day)
198500		4988	2.379508 Adjusted ROG (2039) (tons/year)
End Date	Start Date		
1/1/2040	12/30/2059		

1 ton/year = 5.479 lbs/day

1 lb/day = .1825 tons/year

ROG Calcs: Annual

Year	ROG tons/yr
2030	0.2769
2031	0.3761
2032	0.6909
2033	1.7491
2034	1.6609
2035	1.5774
2036	1.5834
2037	1.5774
2038	1.5774
2039	1.5713
2040	1.2932
2041	1.2932
2042	1.2932
2043	1.2932
2044	1.2932
2045	1.1680
2046	1.1725
2047	0.9377
2048	5.6191
2049	27.4222
Maximum	27.4222

After adjustments

Year	ROG tons/yr
2030	0.2769
2031	0.3761
2032	0.6909
2033	1.7491
2034	1.6609
2035	1.5774
2036	1.5834
2037	1.5774
2038	1.5774
2039	5.3658
2040	5.0877
2041	5.0877
2042	5.0877
2043	5.0877
2044	5.0877
2045	4.9625
2046	4.9670
2047	4.7322
2048	5.6191
2049	3.7945
Maximum	27.4222

Arch coating will start 2/3 way through construction (2039)

3.794542

ROG Calcs: Annual

Year	ROG tons/yr
2030	2.4833
2031	5.8049
2032	15.9547
2033	15.0477
2034	14.2452
2035	13.4436
2036	13.4436
2037	13.4436
2038	13.4436
2039	13.4436
2040	10.8276
2041	10.8276
2042	10.8276
2043	10.8276
2044	10.8276
2045	9.7428
2046	9.7428
2047	9.7428
2048	239.6330
2049	239.6330
Maximum	27.4222

After adjustments

Year	ROG tons/yr
2030	2.4833
2031	5.8049
2032	15.9547
2033	15.0477
2034	14.2452
2035	13.4436
2036	13.4436
2037	13.4436
2038	13.4436
2039	26.4820
2040	23.8660
2041	23.8660
2042	23.8660
2043	23.8660
2044	23.8660
2045	22.7812
2046	22.7812
2047	22.7812
2048	13.0384
2049	13.0384
Maximum	27.4222

Arch coating will start 2/3 way through construction (2039)

13.0384

# of Days				Off Model Adjustments	
(CalEEMod default)	% of year	Adjusted # of Days			
10000	5%	0	653.86	Adjusted Arch Coating Days	
6000	3%	30	based on 2/3 building days plus paving and arch coating		
15500	8%	81	116	Unmitigated ROG	
155000	78%	821		lb/day (2049)	
11000	6%	56	6496	ROG X Arch Tech Days	
11000	6%	56	5.636724	Adjusted ROG (2039) (lbs per day)	
198500		1044	1.028702	Adjusted ROG (2039) (tons/year)	
End Date	Start Date				
1/1/2040	12/30/2059				

1 ton/year = 5.479 lbs/day

1 lb/day = .1825 tons/year

<u># of Days</u> <u>(CalEEMod</u> <u>default)</u>	<u>% of year</u>	<u>Adjusted # of</u> <u>Days</u>	<u>Off Model Adjustments</u>
10000	5%	0	409.9 Adjusted Arch Coating Days
6000	3%	19	based on 2/3 building days plus paving and arch coating
15500	8%	51	61 Unmitigated ROG
155000	78%	515	lb/day (2049)
11000	6%	35	2135 ROG X Arch Tech Days
11000	6%	35	6.719672 Adjusted ROG (2039) (lbs per day)
198500		655	1.22634 Adjusted ROG (2039) (tons/year)
End Date	Start Date		
1/1/2040	12/30/2059		

1 ton/year = 5.479 lbs/day

1 lb/day = .1825 tons/year

# of Days			Off Model Adjustments	
(CalEEMod default)	% of year	Adjusted # of Days		
10000	5%		815.82	Adjusted Arch Coating Days
6000	3%	37	based on 2/3 building days plus paving and arch coating	
15500	8%	102	162	Unmitigated ROG lb/day (2049)
155000	78%	1027	11178	ROG X Arch Tech Days
11000	6%	69	5.035926	Adjusted ROG (2039) (lbs per day)
11000	6%	69	0.919056	Adjusted ROG (2039) (tons/year)
198500		1304		
End Date	Start Date			
1/1/2040	12/30/2059			

1 ton/year = 5.479 lbs/day

1 lb/day = .1825 tons/year

# of Days			
<u>(CalEEMod default)</u>	<u>% of year</u>	<u>Adjusted # of Days</u>	<u>Off Model Adjustments</u>
10000	5%	0	653.86 Adjusted Arch Coating Days
6000	3%	30	based on 2/3 building days plus paving and arch coating
15500	8%	81	116 Unmitigated ROG
155000	78%	821	lb/day (2049)
11000	6%	56	6496 ROG X Arch Tech Days
11000	6%	56	5.636724 Adjusted ROG (2039) (lbs per day)
198500		1044	1.028702 Adjusted ROG (2039) (tons/year)
End Date	Start Date		
1/1/2040	12/30/2059		

1 ton/year = 5.479 lbs/day

1 lb/day = .1825 tons/year

# of Days			
<u>(CalEEMod default)</u>	<u>% of year</u>	<u>Adjusted # of Days</u>	<u>Off Model Adjustments</u>
10000	5%	0	653.86 Adjusted Arch Coating Days
6000	3%	30	based on 2/3 building days plus paving and arch coating
15500	8%	81	116 Unmitigated ROG
155000	78%	821	lb/day (2049)
11000	6%	56	6496 ROG X Arch Tech Days
11000	6%	56	5.636724 Adjusted ROG (2039) (lbs per day)
198500		1044	1.028702 Adjusted ROG (2039) (tons/year)
End Date	Start Date		
1/1/2040	12/30/2059		

1 ton/year = 5.479 lbs/day

1 lb/day = .1825 tons/year

# of Days			
<u>(CalEEMod default)</u>	<u>% of year</u>	<u>Adjusted # of Days</u>	<u>Off Model Adjustments</u>
10000	5%	0	1470.34 Adjusted Arch Coating Days
6000	3%	67	based on 2/3 building days plus paving and arch coating
15500	8%	183	112 Unmitigated ROG
155000	78%	1849	lb/day (2049)
11000	6%	125	14000 ROG X Arch Tech Days
11000	6%	125	13.12804 Adjusted ROG (2039) (lbs per day)
198500		2349	2.395867 Adjusted ROG (2039) (tons/year)
End Date	Start Date		
1/1/2040	12/30/2059		

1 ton/year = 5.479 lbs/day

1 lb/day = .1825 tons/year