
Appendix B-1

Air Quality and GHG Emission Estimates

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Apple Valley 143
Electric Lifts - Unmitigated

1. Electric Lift Vehicles - Energy Consumption

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Drive Motor Capacity		Facility Operation (hrs/day)	Vehicle Operation				Electric Energy Consumption per Unit		# of Units	Total Energy Consumption	
			(hp)	(kW)		Load Factor ⁴	(days/week)	(weeks/yr)	(hrs/year)	(kWhr/day/Unit)	(kWhr/yr/Unit)		(kWhr/day)	(kWhr/yr)
Pallet Jack ¹	3,300	Drive Motor Capacity		0.7	24	0.2	7	52	1747.2	3.36	1,223.04	25	84.00	30,576.00
		Lift Motor Capacity		0.8	24	0.05	7	52	436.8	0.96	349.44		24.00	8,736.00
Small Forklift ²	3,086-4,409	Drive Motor Capacity		11	24	0.2	7	52	1747.2	52.80	19,219.20	63	3326.40	1,210,809.60
		Lift Motor Capacity		10	24	0.05	7	52	436.8	12.00	4,368.00		756.00	275,184.00
Large Forklift ³	7,000-11,000	Drive Motor Capacity	24	18	24	0.2	7	52	1747.2	86.40	31,449.60	63	5443.20	1,981,324.80
		Lift Motor Capacity	27	20	24	0.05	7	52	436.8	24.00	8,736.00		1512.00	550,368.00
												Total	11,145.60	4,056,998.40

¹ Based on Global Industrial™ 3300 LB. CAPACITY SELF-PROPELLED ELECTRIC POWER PALLET JACK TRUCK

https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw_sn8BRBrEiwAnUGJDSnUx19IvgquuJTz2DOx51UqkSAlg9VO22XpkzJZWyl-FmMiqFRaeRoCOqEQAvD_BwE

² Based on CAT Model EP12ANT - EP20ANT

<https://www.catlifttruck.com/lift-trucks/counterbalance-forklift-trucks/electric-powered-lift-trucks/ep14-20acnt>

³ Based on CAT Model 2EPC7000 - 2EP11000

<https://www.logisnextamericas.com/-/media/mcfa/sites/portal/files/forklifts/cat-lift-trucks/sales%20literature/ct-i-2epc7000-2ep11000-english.pdf>

⁴ Drive motor load factor based on CalEEMod User Manual Table 3.3 for offroad forklift load factor
Lift motor load factor set equal of 25% of drive motor capacity factor based on engineering estimate.

2. Electric Lift Vehicles - Greenhouse Gas (GHG) Emissions

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Total Energy Consumption		GHG Intensity Factors				Annual GHG Emissions			
			(kWhr/day)	(kWhr/yr)	CO2	CH4	N2O	CO ₂ e ¹	CO2	CH4	N2O	CO ₂ e
					(lb/MWhr)				(Metric TPY)			
Pallet Jack	3,300	Drive Motor Capacity	84	30,576.00	390.98	0.033	0.004	392.997	5.42	0.00	0.00	5.45
		Lift Motor Capacity	24	8,736.00	390.98	0.033	0.004	392.997	1.55	0.00	0.00	1.56
Small Forklift	3,086-4,409	Drive Motor Capacity	3326.4	1,210,809.60	390.98	0.033	0.004	392.997	214.73	0.02	0.00	215.84
		Lift Motor Capacity	756	275,184.00	390.98	0.033	0.004	392.997	48.80	0.00	0.00	49.05
Large Forklift	7,000-11,000	Drive Motor Capacity	5443.2	1,981,324.80	390.98	0.033	0.004	392.997	351.38	0.03	0.00	353.19
		Lift Motor Capacity	1512	550,368.00	390.98	0.033	0.004	392.997	97.61	0.01	0.00	98.11
								Total	719.49	0.06	0.01	723.20

¹ Based on CalEEMod 2020.4.0 default GHG intensity for SCE.

Apple Valley 143
Electric Lifts - Mitigated

1. Electric Lift Vehicles - Energy Consumption

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Drive Motor Capacity		Facility Operation (hrs/day)	Vehicle Operation				Electric Energy Consumption per Unit		# of Units	Total Energy Consumption	
			(hp)	(kW)		Load Factor ⁴	(days/week)	(weeks/yr)	(hrs/year)	(kWhr/day/Unit)	(kWhr/yr/Unit)		(kWhr/day)	(kWhr/yr)
Pallet Jack ¹	3,300	Drive Motor Capacity	0.7	24	0.2	7	52	1747.2	3.36	1,223.04	52	174.72	63,598.08	
		Lift Motor Capacity	0.8	24	0.05	7	52	436.8	0.96	349.44		49.92	18,170.88	
Small Forklift ²	3,086-4,409	Drive Motor Capacity	11	24	0.2	7	52	1747.2	52.80	19,219.20	125	6600.00	2,402,400.00	
		Lift Motor Capacity	10	24	0.05	7	52	436.8	12.00	4,368.00		1500.00	546,000.00	
Large Forklift ³	7,000-11,000	Drive Motor Capacity	24	18	0.2	7	52	1747.2	86.40	31,449.60	125	10800.00	3,931,200.00	
		Lift Motor Capacity	27	20	0.05	7	52	436.8	24.00	8,736.00		3000.00	1,092,000.00	
Yard Truck ⁵	N/A	Drive Motor Capacity	215	160	0.2	7	52	1747.2	768.00	279,552.00	9	6912.00	2,515,968.00	
											Total	29,036.64	10,569,336.96	

¹ Based on Global Industrial™ 3300 LB. CAPACITY SELF-PROPELLED ELECTRIC POWER PALLET JACK TRUCK

https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw_sn8BRBrEiwAnUGJDsnUx19lvquuJTz2DOx51UqkSAIlg9VO22XpkzJZWyl-FmMiqFRaeRoCOqEQAvD_BwE

² Based on CAT Model EP12ANT - EP20ANT

<https://www.catlifttruck.com/lift-trucks/counterbalance-forklift-trucks/electric-powered-lift-trucks/ep14-20acnt>

³ Based on CAT Model 2EPC7000 - 2EP11000

<https://www.logisnextamericas.com/-/media/mcfa/sites/portal/files/forklifts/cat-lift-trucks/sales%20literature/clt-i-2epc7000-2ep11000-english.pdf>

⁴ Drive motor load factor based on CalEEMod User Manual Table 3.3 for offroad forklift load factor

Lift motor load factor set equal of 25% of drive motor capacity factor based on engineering estimate.

⁵ Based on Kalmar Ottawa T22 - 4x2 Electric Yard Truck

2. Electric Lift Vehicles - Greenhouse Gas (GHG) Emissions

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Total Energy Consumption		GHG Intensity Factors				Annual GHG Emissions			
			(kWhr/day)	(kWhr/yr)	CO2	CH4	N2O	CO ₂ e ¹	CO2	CH4	N2O	CO ₂ e
					(lb/MWhr)				(Metric TPY)			
Pallet Jack	3,300	Drive Motor Capacity	174.72	63,598.08	390.98	0.033	0.004	392.997	11.28	0.00	0.00	11.34
		Lift Motor Capacity	49.92	18,170.88	390.98	0.033	0.004	392.997	3.22	0.00	0.00	3.24
Small Forklift	3,086-4,409	Drive Motor Capacity	6600	2,402,400.00	390.98	0.033	0.004	392.997	426.06	0.04	0.00	428.25
		Lift Motor Capacity	1500	546,000.00	390.98	0.033	0.004	392.997	96.83	0.01	0.00	97.33
Large Forklift	7,000-11,000	Drive Motor Capacity	10800	3,931,200.00	390.98	0.033	0.004	392.997	697.18	0.06	0.01	700.78
		Lift Motor Capacity	3000	1,092,000.00	390.98	0.033	0.004	392.997	193.66	0.02	0.00	194.66
Yard Truck	N/A	Drive Motor Capacity	6912.00	2,515,968.00	390.98	0.033	0.004	392.997	446.20	0.04	0.00	448.50
								Total	1874.43	0.16	0.02	1884.10

¹ Based on CalEEMod 2020.4.0 default GHG intensity for SCE.

Apple Valley 143
Delivery Truck TRU emissions

	Truck Count		VOC	NOx	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	CO2e
	hr/truck	trucks/day	trucks/year	lb/day	lb/day	lb/day	lb/day	lb/day	MT/yr	MT/yr	MT/yr	MT/yr
TRU	0.5	358	130,670	0.0263	0.0260	0.0034	0.0000	0.0010	0.0010	0.8626	-	0.86

Assumptions:

1,473 trucks per day, M-Sun
 358 trucks per day to High Cube Cold Storage uses, all assumed to have TRU

1 lb = 453.6 g
 1 MT = 1000000 g
 1 MT = 2204.623 lb

Model Output: OFFROAD2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2025

Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2021 Equipment Types

Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Ye:	Vehicle Category	Model Year	Horsepow	Fuel	ROG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consu	Total_Activ	Total_Pop	Horsepower_Hours_hhpy
San Bernardi	2025	Transportation Re Aggregate		25	Diesel	0.0916743	0.0117727	0.0905098	18.14971	0.00360469	0.00331535	0	4.07303E-07	590928.5	900604.2	505.42	0
						ROG	CO	Nox	CO2	PM10	PM2.5	SOx	NH3				
						tons/hr/TRU	tons/hr/TRU	tons/hr/TRU	tons/hr/TRU	tons/hr/TRU	tons/hr/TRU	tons/hr/TRU	tons/hr/TRU				
						7.35E-08	9.44E-09	7.26E-08	1.46E-05	2.89E-09	2.66E-09	0.00E+00	3.27E-13				
						lb/hr/TRU	lb/hr/TRU	lb/hr/TRU	lb/hr/TRU	lb/hr/TRU	lb/hr/TRU	lb/hr/TRU	lb/hr/TRU				
						1.47E-04	1.89E-05	1.45E-04	2.91E-02	5.78E-06	5.32E-06	0.00E+00	6.53E-10				

Apple Valley 143
Idling Emissions

Region	CalYr	VehClass	Mdl Year	Speed	Fuel	Population	PM10_IDLEX (g/vehicle-idle-hour)	Diesel vehicles		Idling Emissions			
								Hours per day	per day	g/day	lb/day	lb/year	lb/hour
San Bernardino (MD)	2025	HHDT	Aggregated	Aggregated	DSL	13290.67817	0.010504008	0.25	885	2.3229397	0.0051211	1.869209	0.0002134
San Bernardino (MD)	2025	LHDT1	Aggregated	Aggregated	DSL	4701.002143	0.800852043	0.25	111	22.2236442	0.0489939	17.882782	0.0020414
San Bernardino (MD)	2025	LHDT2	Aggregated	Aggregated	DSL	4701.002143	0.795082133	0.25	49	9.7397561	0.0214721	7.837326	0.0008947
San Bernardino (MD)	2025	MHDT	Aggregated	Aggregated	DSL	2781.840623	0.067780271	0.25	203	3.4427643	0.0075899	2.770302	0.0003162
Totals									1,248	37.729	0.083	30.360	0.003

Note: Total vehicles per day based % of diesel vehicle population per truck category in County multiplied by the project truck trips

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Cal	Model Year	Speed	Fuel	Population	Vehicle Split
San Bernardino (MD)	2025	HHDT	Aggregate	Aggregate	Gasoline	2.232242923	HHDT% Gas/Elect/NG 0.83%
San Bernardino (MD)	2025	HHDT	Aggregate	Aggregate	Diesel	13290.67817	HHDT% Diesel 99.17%
San Bernardino (MD)	2025	HHDT	Aggregate	Aggregate	Electricity	73.24127598	LHDT1% Gas/Elect/NG 54.20%
San Bernardino (MD)	2025	HHDT	Aggregate	Aggregate	Natural Gas	35.79343022	LHDT1% Diesel 45.80%
San Bernardino (MD)	2025	LHDT1	Aggregate	Aggregate	Gasoline	12749.90304	LHDT2% Gas/Elect/NG 26.79%
San Bernardino (MD)	2025	LHDT1	Aggregate	Aggregate	Diesel	10857.0041	LHDT2% Diesel 73.21%
San Bernardino (MD)	2025	LHDT1	Aggregate	Aggregate	Electricity	98.95601889	MHDT% Gas/Elect/NG 24.85%
San Bernardino (MD)	2025	LHDT2	Aggregate	Aggregate	Gasoline	1694.603438	MHDT% Diesel 75.15%
San Bernardino (MD)	2025	LHDT2	Aggregate	Aggregate	Diesel	4701.002143	
San Bernardino (MD)	2025	LHDT2	Aggregate	Aggregate	Electricity	25.33497762	
San Bernardino (MD)	2025	MHDT	Aggregate	Aggregate	Gasoline	882.0237715	
San Bernardino (MD)	2025	MHDT	Aggregate	Aggregate	Diesel	2781.840623	
San Bernardino (MD)	2025	MHDT	Aggregate	Aggregate	Electricity	28.71678871	
San Bernardino (MD)	2025	MHDT	Aggregate	Aggregate	Natural Gas	9.099353532	

Project-Level Run for Idling Emissions (g/vehicle-idle-hour)

calendar_year	season	mx	sub_area	vehicle_clas	fuel	temperature	relative_humidit	process	speed_time	pollutant	emission_rate
2025	Annual		San Bernar	HHDT	Dsl			IDLEX		PM10	0.010504008
2025	Annual		San Bernar	LHDT1	Dsl			IDLEX		PM10	0.800852043
2025	Annual		San Bernar	LHDT2	Dsl			IDLEX		PM10	0.795082133
2025	Annual		San Bernar	MHDT	Dsl			IDLEX		PM10	0.067780271

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

**Apple Valley 143 - Unmitigated
San Bernardino-Mojave Desert County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	377.78	1000sqft	19.61	377,780.00	0
Unrefrigerated Warehouse-No Rail	2,140.73	1000sqft	61.84	2,140,730.00	0
Other Asphalt Surfaces	0.65	Acre	0.65	28,314.00	0
Other Non-Asphalt Surfaces	45.68	Acre	45.68	1,989,820.80	0
Other Non-Asphalt Surfaces	16.73	Acre	16.73	728,758.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Apple Valley 143 Project

Land Use - On-Site Land uses: High Cube Cold Storage (Refrigerated Warehouse), High Cube Non-Cold Storage (Unrefrigerated Warehouse), and Parking Lots/Driveways. Off-site 0.65 acres of asphalt surfaces for repave

Construction Phase - Adjusted schedule based on applicant input and representative water pipeline project experience

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input - Laser Screeds (x2) modeled as "Other Construction Equipment" and Concrete Finishing Machines (x2) modeled as "Surfacing Equipment"

Off-road Equipment - Adjusted based on applicant input

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

Off-road Equipment -

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Trips and VMT - Trips adjusted per applicant input, with 2 water trucks added during site prep and grading. Offsite water pipeline construction vehicles based on a representative water pipeline project, scaled to the length of the proposed pipeline

Grading - Default onsite acres. Offsite grading for pipeline input as 0.65 acres. Total of 150,000 CY assumed export during onsite mass/fine grading and 2,288 CY assumed export during offsite grading

Architectural Coating - Adjusted VOC content per MDAQMD Rule 1113. Adjusted restriping for offsite repavement to anticipated asphalt area.

Vehicle Trips - Trip generation based on traffic report, with Refrigerated Warehouse used to estimate trucks and Unrefrigerated Warehouse used to estimate employee trips. Truck triplength of 40 miles and worker triplength of 14.7 miles assumed

Area Coating - Adjusted VOC content based on MDAQMD Rule 1113

Water And Wastewater - Adjusted water demand based on Water Supply Assessment

Construction Off-road Equipment Mitigation - MDAQMD Rule 403: compliance assumed with watering site 2x per day and limiting vehicle speed to 15 mph on unpaved areas

Operational Off-Road Equipment - Forklifts and yard trucks based on the SCAQMD High-Cube Business Survey. Assumed 50% Diesel/50% electric forklifts and 100% diesel yard trucks. GHGs from electric forklifts were estimated outside of CalEEMod.

Fleet Mix - Adjusted fleetmix to match traffic report with Refrigerated Warehouse used to model trucks and Unrefrigerated Warehouse used to model workers

Stationary Sources - Emergency Generators and Fire Pumps - 1x 500hp diesel emergency generator assumed per building. Routine testing of 1 hour per day, 50 hours per year

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	104,980.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	47,500.00

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	170.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	5.00
tblConstructionPhase	NumDays	3,100.00	199.00
tblConstructionPhase	NumDays	310.00	30.00
tblConstructionPhase	NumDays	310.00	95.00
tblConstructionPhase	NumDays	310.00	15.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	165.00
tblConstructionPhase	NumDays	120.00	15.00
tblFleetMix	HHD	0.02	0.61
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.60
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.0090e-003	0.05

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

tblFleetMix	LHD2	7.0090e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.15
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MHD	0.01	0.18
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblGrading	AcresOfGrading	0.00	0.65
tblGrading	MaterialExported	0.00	112,504.00
tblGrading	MaterialExported	0.00	2,288.00
tblGrading	MaterialExported	0.00	37,496.00
tblLandUse	LotAcreage	8.67	19.61
tblLandUse	LotAcreage	49.14	61.84
tblOffRoadEquipment	HorsePower	172.00	65.00
tblOffRoadEquipment	HorsePower	263.00	107.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	168.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	151.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	9.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	24.00
tblTripsAndVMT	HaulingTripNumber	14,063.00	16,072.00
tblTripsAndVMT	HaulingTripNumber	4,687.00	5,356.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	400.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	863.00	884.00
tbITripsAndVMT	VendorTripNumber	0.00	8.00
tbITripsAndVMT	WorkerTripNumber	5.00	20.00
tbITripsAndVMT	WorkerTripNumber	25.00	30.00
tbITripsAndVMT	WorkerTripNumber	10.00	16.00
tbITripsAndVMT	WorkerTripNumber	442.00	4.00
tbITripsAndVMT	WorkerTripNumber	2,211.00	750.00
tbITripsAndVMT	WorkerTripNumber	442.00	230.00
tbITripsAndVMT	WorkerTripNumber	442.00	6.00
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CNW_TL	6.60	40.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.12	3.90
tblVehicleTrips	ST_TR	1.74	1.58

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

tblVehicleTrips	SU_TR	2.12	3.90
tblVehicleTrips	SU_TR	1.74	1.58
tblVehicleTrips	WD_TR	2.12	3.90
tblVehicleTrips	WD_TR	1.74	1.58
tblWater	IndoorWaterUseRate	87,361,625.00	1,611,908.59
tblWater	IndoorWaterUseRate	495,043,812.50	9,134,049.12

2.0 Emissions Summary

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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					
2023	11.1330	126.2195	112.9944	0.4405	22.1233	3.4687	25.5920	6.7721	3.2428	10.0148	0.0000	46,353.91 64	46,353.91 64	5.0207	5.2811	48,053.21 38
2024	215.7849	142.0648	144.0382	0.6032	34.0480	3.6869	37.7349	10.3832	3.4639	13.8471	0.0000	62,700.57 50	62,700.57 50	5.1875	6.0467	64,632.18 28
Maximum	215.7849	142.0648	144.0382	0.6032	34.0480	3.6869	37.7349	10.3832	3.4639	13.8471	0.0000	62,700.57 50	62,700.57 50	5.1875	6.0467	64,632.18 28

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					
2023	11.1330	126.2195	112.9944	0.4405	15.5991	3.4687	19.0677	4.5919	3.2428	7.8347	0.0000	46,353.91 64	46,353.91 64	5.0207	5.2811	48,053.21 37
2024	215.7849	142.0648	144.0382	0.6032	28.7928	3.6869	32.4797	8.3444	3.4639	11.8082	0.0000	62,700.57 50	62,700.57 50	5.1875	6.0467	64,632.18 27
Maximum	215.7849	142.0648	144.0382	0.6032	28.7928	3.6869	32.4797	8.3444	3.4639	11.8082	0.0000	62,700.57 50	62,700.57 50	5.1875	6.0467	64,632.18 27

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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	20.97	0.00	18.60	24.59	0.00	17.68	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Energy	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
Mobile	10.8673	235.8539	165.9252	1.6369	90.1921	2.6346	92.8267	24.7427	2.5142	27.2568		174,027.1834	174,027.1834	5.1077	21.0326	180,422.5774
Offroad	46.9692	438.3618	559.2008	0.8781		22.1354	22.1354		20.3646	20.3646	0.0000	85,019.4877	85,019.4877	27.4970		85,706.9133
Stationary	3.3721	9.4248	8.5980	0.0162		0.4960	0.4960		0.4960	0.4960		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	120.2138	690.0477	739.3670	2.5696	90.1921	25.7537	115.9459	24.7427	23.8625	48.6051	0.0000	268,458.1398	268,458.1398	32.9954	21.1735	275,592.7158

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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

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	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Energy	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
Mobile	10.8673	235.8539	165.9252	1.6369	90.1921	2.6346	92.8267	24.7427	2.5142	27.2568		174,027.1834	174,027.1834	5.1077	21.0326	180,422.5774
Offroad	46.9692	438.3618	559.2008	0.8781		22.1354	22.1354		20.3646	20.3646	0.0000	85,019.4877	85,019.4877	27.4970		85,706.9133
Stationary	3.3721	9.4248	8.5980	0.0162		0.4960	0.4960		0.4960	0.4960		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	120.2138	690.0477	739.3670	2.5696	90.1921	25.7537	115.9459	24.7427	23.8625	48.6051	0.0000	268,458.1398	268,458.1398	32.9954	21.1735	275,592.7158

	ROG	NOx	CO	SO2	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 - Onsite	Site Preparation	10/1/2023	10/20/2023	5	15	
2	Mass Grading - Onsite	Grading	10/21/2023	12/1/2023	5	30	
3	Road Removal/ Pipeline Install - Offsite	Grading	11/1/2023	3/12/2024	5	95	

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

4	Pipeline Paving - Offsite	Paving	11/1/2023	6/18/2024	5	165
5	Restriping - Offsite	Architectural Coating	11/1/2023	6/25/2024	5	170
6	Building Construction - Onsite	Building Construction	12/2/2023	9/5/2024	5	199
7	Architectural Coating - Onsite	Architectural Coating	6/14/2024	9/5/2024	5	60
8	Testing - Offsite	Architectural Coating	6/26/2024	7/2/2024	5	5
9	Fine Grading - Onsite	Grading	8/16/2024	9/5/2024	5	15
10	Concrete Laydown - Onsite	Paving	9/6/2024	11/28/2024	5	60

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 150

Acres of Paving: 63.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 47,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation - Onsite	Crawler Tractors	1	8.00	212	0.43
Site Preparation - Onsite	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation - Onsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Mass Grading - Onsite	Excavators	2	8.00	158	0.38
Mass Grading - Onsite	Graders	1	8.00	187	0.41
Mass Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Mass Grading - Onsite	Scrapers	4	8.00	367	0.48
Mass Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Road Removal/ Pipeline Install - Offsite	Concrete/Industrial Saws	1	8.00	81	0.73
Road Removal/ Pipeline Install - Offsite	Excavators	1	8.00	158	0.38
Road Removal/ Pipeline Install - Offsite	Graders	0	8.00	187	0.41
Road Removal/ Pipeline Install - Offsite	Pumps	1	8.00	84	0.74
Road Removal/ Pipeline Install - Offsite	Rubber Tired Dozers	0	8.00	247	0.40

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

Road Removal/ Pipeline Install - Offsite	Scrapers	0	8.00	367	0.48
Road Removal/ Pipeline Install - Offsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipeline Paving - Offsite	Pavers	1	8.00	130	0.42
Pipeline Paving - Offsite	Paving Equipment	1	8.00	132	0.36
Pipeline Paving - Offsite	Rollers	1	8.00	80	0.38
Restriping - Offsite	Air Compressors	1	8.00	78	0.48
Building Construction - Onsite	Aerial Lifts	3	7.00	63	0.31
Building Construction - Onsite	Cranes	1	7.00	231	0.29
Building Construction - Onsite	Forklifts	7	8.00	89	0.20
Building Construction - Onsite	Generator Sets	3	8.00	84	0.74
Building Construction - Onsite	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction - Onsite	Welders	2	8.00	46	0.45
Architectural Coating - Onsite	Aerial Lifts	3	6.00	63	0.31
Architectural Coating - Onsite	Air Compressors	3	6.00	78	0.48
Testing - Offsite	Air Compressors	0	6.00	78	0.48
Testing - Offsite	Generator Sets	1	8.00	84	0.74
Fine Grading - Onsite	Excavators	2	8.00	158	0.38
Fine Grading - Onsite	Graders	1	8.00	187	0.41
Fine Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading - Onsite	Scrapers	2	8.00	367	0.48
Fine Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Concrete Laydown - Onsite	Other Construction Equipment	2	8.00	65	0.42
Concrete Laydown - Onsite	Pavers	0	8.00	130	0.42
Concrete Laydown - Onsite	Paving Equipment	0	8.00	132	0.36
Concrete Laydown - Onsite	Rollers	0	8.00	80	0.38
Concrete Laydown - Onsite	Surfacing Equipment	6	8.00	107	0.30

Trips and VMT

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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
Site Preparation - Onsite	2	20.00	4.00	24.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Mass Grading - Onsite	10	30.00	8.00	16,072.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Road Removal/ Pipeline Install - Offsite	4	16.00	2.00	286.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Paving - Offsite	3	8.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restriping - Offsite	1	4.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Onsite	25	750.00	884.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Onsite	6	230.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Testing - Offsite	1	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading - Onsite	8	20.00	8.00	5,356.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Concrete Laydown - Onsite	8	20.00	400.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.2 Site Preparation - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5955	6.6603	4.4750	0.0110		0.2746	0.2746		0.2526	0.2526		1,059.848 2	1,059.848 2	0.3428		1,068.417 6
Total	0.5955	6.6603	4.4750	0.0110	0.5303	0.2746	0.8048	0.0573	0.2526	0.3098		1,059.848 2	1,059.848 2	0.3428		1,068.417 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8600e-003	0.1760	0.0536	9.0000e-004	0.0280	1.8500e-003	0.0299	7.6800e-003	1.7700e-003	9.4500e-003		97.9475	97.9475	4.1800e-003	0.0155	102.6785
Vendor	4.6100e-003	0.1364	0.0582	6.9000e-004	0.0245	1.0100e-003	0.0255	7.0600e-003	9.7000e-004	8.0300e-003		73.7571	73.7571	1.9300e-003	0.0109	77.0521
Worker	0.0845	0.0525	0.8470	2.2800e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1500e-003	0.0689		230.0725	230.0725	5.2500e-003	5.3200e-003	231.7896
Total	0.0929	0.3649	0.9588	3.8700e-003	0.3080	4.1000e-003	0.3121	0.0825	3.8900e-003	0.0864		401.7771	401.7771	0.0114	0.0318	411.5202

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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 Site Preparation - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.5955	6.6603	4.4750	0.0110		0.2746	0.2746		0.2526	0.2526	0.0000	1,059.848 2	1,059.848 2	0.3428		1,068.417 6
Total	0.5955	6.6603	4.4750	0.0110	0.2386	0.2746	0.5132	0.0258	0.2526	0.2783	0.0000	1,059.848 2	1,059.848 2	0.3428		1,068.417 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	3.8600e-003	0.1760	0.0536	9.0000e-004	0.0280	1.8500e-003	0.0299	7.6800e-003	1.7700e-003	9.4500e-003		97.9475	97.9475	4.1800e-003	0.0155	102.6785
Vendor	4.6100e-003	0.1364	0.0582	6.9000e-004	0.0245	1.0100e-003	0.0255	7.0600e-003	9.7000e-004	8.0300e-003		73.7571	73.7571	1.9300e-003	0.0109	77.0521
Worker	0.0845	0.0525	0.8470	2.2800e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1500e-003	0.0689		230.0725	230.0725	5.2500e-003	5.3200e-003	231.7896
Total	0.0929	0.3649	0.9588	3.8700e-003	0.3080	4.1000e-003	0.3121	0.0825	3.8900e-003	0.0864		401.7771	401.7771	0.0114	0.0318	411.5202

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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 Mass Grading - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.8516	0.0000	11.8516	3.9626	0.0000	3.9626			0.0000			0.0000
Off-Road	4.8953	51.0824	40.3252	0.0925		2.0741	2.0741		1.9081	1.9081		8,951.735 3	8,951.735 3	2.8952		9,024.114 6
Total	4.8953	51.0824	40.3252	0.0925	11.8516	2.0741	13.9256	3.9626	1.9081	5.8707		8,951.735 3	8,951.735 3	2.8952		9,024.114 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2908	58.9217	17.9470	0.3009	9.3817	0.6197	10.0014	2.5725	0.5929	3.1654		32,796.08 67	32,796.08 67	1.3993	5.1984	34,380.18 01
Vendor	9.2300e-003	0.2728	0.1164	1.3800e-003	0.0490	2.0200e-003	0.0511	0.0141	1.9300e-003	0.0161		147.5141	147.5141	3.8600e-003	0.0218	154.1043
Worker	0.1267	0.0788	1.2705	3.4100e-003	0.3832	1.8700e-003	0.3851	0.1016	1.7200e-003	0.1033		345.1087	345.1087	7.8800e-003	7.9800e-003	347.6843
Total	1.4267	59.2733	19.3338	0.3057	9.8140	0.6236	10.4376	2.6883	0.5965	3.2848		33,288.70 96	33,288.70 96	1.4110	5.2281	34,881.96 87

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.3 Mass Grading - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3332	0.0000	5.3332	1.7832	0.0000	1.7832			0.0000			0.0000
Off-Road	4.8953	51.0824	40.3252	0.0925		2.0741	2.0741		1.9081	1.9081	0.0000	8,951.735 3	8,951.735 3	2.8952		9,024.114 6
Total	4.8953	51.0824	40.3252	0.0925	5.3332	2.0741	7.4073	1.7832	1.9081	3.6913	0.0000	8,951.735 3	8,951.735 3	2.8952		9,024.114 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	1.2908	58.9217	17.9470	0.3009	9.3817	0.6197	10.0014	2.5725	0.5929	3.1654		32,796.08 67	32,796.08 67	1.3993	5.1984	34,380.18 01
Vendor	9.2300e-003	0.2728	0.1164	1.3800e-003	0.0490	2.0200e-003	0.0511	0.0141	1.9300e-003	0.0161		147.5141	147.5141	3.8600e-003	0.0218	154.1043
Worker	0.1267	0.0788	1.2705	3.4100e-003	0.3832	1.8700e-003	0.3851	0.1016	1.7200e-003	0.1033		345.1087	345.1087	7.8800e-003	7.9800e-003	347.6843
Total	1.4267	59.2733	19.3338	0.3057	9.8140	0.6236	10.4376	2.6883	0.5965	3.2848		33,288.70 96	33,288.70 96	1.4110	5.2281	34,881.96 87

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.4 Road Removal/ Pipeline Install - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0106	0.0000	0.0106	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	1.0016	8.4214	12.8717	0.0211		0.4147	0.4147		0.4026	0.4026		2,017.3824	2,017.3824	0.3170		2,025.3070
Total	1.0016	8.4214	12.8717	0.0211	0.0106	0.4147	0.4254	1.3000e-003	0.4026	0.4039		2,017.3824	2,017.3824	0.3170		2,025.3070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.2500e-003	0.3311	0.1009	1.6900e-003	0.0527	3.4800e-003	0.0562	0.0145	3.3300e-003	0.0178		184.2960	184.2960	7.8600e-003	0.0292	193.1977
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0676	0.0420	0.6776	1.8200e-003	0.2044	1.0000e-003	0.2054	0.0542	9.2000e-004	0.0551		184.0580	184.0580	4.2000e-003	4.2600e-003	185.4316
Total	0.0771	0.4413	0.8075	3.8500e-003	0.2694	4.9800e-003	0.2743	0.0722	4.7300e-003	0.0769		405.2325	405.2325	0.0130	0.0389	417.1554

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.4 Road Removal/ Pipeline Install - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7900e-003	0.0000	4.7900e-003	5.8000e-004	0.0000	5.8000e-004			0.0000			0.0000
Off-Road	1.0016	8.4214	12.8717	0.0211		0.4147	0.4147		0.4026	0.4026	0.0000	2,017.3824	2,017.3824	0.3170		2,025.3070
Total	1.0016	8.4214	12.8717	0.0211	4.7900e-003	0.4147	0.4195	5.8000e-004	0.4026	0.4032	0.0000	2,017.3824	2,017.3824	0.3170		2,025.3070

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.2500e-003	0.3311	0.1009	1.6900e-003	0.0527	3.4800e-003	0.0562	0.0145	3.3300e-003	0.0178		184.2960	184.2960	7.8600e-003	0.0292	193.1977
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0676	0.0420	0.6776	1.8200e-003	0.2044	1.0000e-003	0.2054	0.0542	9.2000e-004	0.0551		184.0580	184.0580	4.2000e-003	4.2600e-003	185.4316
Total	0.0771	0.4413	0.8075	3.8500e-003	0.2694	4.9800e-003	0.2743	0.0722	4.7300e-003	0.0769		405.2325	405.2325	0.0130	0.0389	417.1554

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.4 Road Removal/ Pipeline Install - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0106	0.0000	0.0106	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	0.9429	7.8439	12.8705	0.0211		0.3634	0.3634		0.3526	0.3526		2,017.7313	2,017.7313	0.3150		2,025.6053
Total	0.9429	7.8439	12.8705	0.0211	0.0106	0.3634	0.3741	1.3000e-003	0.3526	0.3539		2,017.7313	2,017.7313	0.3150		2,025.6053

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1900e-003	0.3322	0.1011	1.6600e-003	0.0527	3.4400e-003	0.0562	0.0145	3.2900e-003	0.0177		181.0950	181.0950	7.6400e-003	0.0287	189.8395
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0628	0.0373	0.6296	1.7700e-003	0.2044	9.6000e-004	0.2053	0.0542	8.8000e-004	0.0551		178.6880	178.6880	3.8000e-003	3.9400e-003	179.9579
Total	0.0722	0.4383	0.7593	3.7700e-003	0.2694	4.9000e-003	0.2742	0.0722	4.6500e-003	0.0768		396.1532	396.1532	0.0124	0.0380	407.7918

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.4 Road Removal/ Pipeline Install - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.7900e-003	0.0000	4.7900e-003	5.8000e-004	0.0000	5.8000e-004			0.0000			0.0000
Off-Road	0.9429	7.8439	12.8705	0.0211		0.3634	0.3634		0.3526	0.3526	0.0000	2,017.7313	2,017.7313	0.3150		2,025.6053
Total	0.9429	7.8439	12.8705	0.0211	4.7900e-003	0.3634	0.3682	5.8000e-004	0.3526	0.3532	0.0000	2,017.7313	2,017.7313	0.3150		2,025.6053

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1900e-003	0.3322	0.1011	1.6600e-003	0.0527	3.4400e-003	0.0562	0.0145	3.2900e-003	0.0177		181.0950	181.0950	7.6400e-003	0.0287	189.8395
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0628	0.0373	0.6296	1.7700e-003	0.2044	9.6000e-004	0.2053	0.0542	8.8000e-004	0.0551		178.6880	178.6880	3.8000e-003	3.9400e-003	179.9579
Total	0.0722	0.4383	0.7593	3.7700e-003	0.2694	4.9000e-003	0.2742	0.0722	4.6500e-003	0.0768		396.1532	396.1532	0.0124	0.0380	407.7918

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.5 Pipeline Paving - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5164	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347		1,103.7921	1,103.7921	0.3570		1,112.7168
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5267	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347		1,103.7921	1,103.7921	0.3570		1,112.7168

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0338	0.0210	0.3388	9.1000e-004	0.1022	5.0000e-004	0.1027	0.0271	4.6000e-004	0.0276		92.0290	92.0290	2.1000e-003	2.1300e-003	92.7158
Total	0.0361	0.0892	0.3679	1.2500e-003	0.1144	1.0000e-003	0.1154	0.0306	9.4000e-004	0.0316		128.9075	128.9075	3.0600e-003	7.5800e-003	131.2419

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.5 Pipeline Paving - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5164	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347	0.0000	1,103.7921	1,103.7921	0.3570		1,112.7168
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5267	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347	0.0000	1,103.7921	1,103.7921	0.3570		1,112.7168

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0338	0.0210	0.3388	9.1000e-004	0.1022	5.0000e-004	0.1027	0.0271	4.6000e-004	0.0276		92.0290	92.0290	2.1000e-003	2.1300e-003	92.7158
Total	0.0361	0.0892	0.3679	1.2500e-003	0.1144	1.0000e-003	0.1154	0.0306	9.4000e-004	0.0316		128.9075	128.9075	3.0600e-003	7.5800e-003	131.2419

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.5 Pipeline Paving - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4941	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155		1,103.7736	1,103.7736	0.3570		1,112.6982
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5044	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155		1,103.7736	1,103.7736	0.3570		1,112.6982

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0314	0.0186	0.3148	8.8000e-004	0.1022	4.8000e-004	0.1027	0.0271	4.4000e-004	0.0275		89.3440	89.3440	1.9000e-003	1.9700e-003	89.9790
Total	0.0336	0.0874	0.3434	1.2200e-003	0.1144	9.8000e-004	0.1154	0.0306	9.2000e-004	0.0316		125.7142	125.7142	2.8400e-003	7.3400e-003	127.9734

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.5 Pipeline Paving - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4941	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155	0.0000	1,103.7736	1,103.7736	0.3570		1,112.6982
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5044	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155	0.0000	1,103.7736	1,103.7736	0.3570		1,112.6982

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0314	0.0186	0.3148	8.8000e-004	0.1022	4.8000e-004	0.1027	0.0271	4.4000e-004	0.0275		89.3440	89.3440	1.9000e-003	1.9700e-003	89.9790
Total	0.0336	0.0874	0.3434	1.2200e-003	0.1144	9.8000e-004	0.1154	0.0306	9.2000e-004	0.0316		125.7142	125.7142	2.8400e-003	7.3400e-003	127.9734

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.6 Restriping - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	1.5506	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0169	0.0105	0.1694	4.6000e-004	0.0511	2.5000e-004	0.0513	0.0136	2.3000e-004	0.0138		46.0145	46.0145	1.0500e-003	1.0600e-003	46.3579
Total	0.0192	0.0787	0.1985	8.0000e-004	0.0634	7.5000e-004	0.0641	0.0171	7.1000e-004	0.0178		82.8930	82.8930	2.0100e-003	6.5100e-003	84.8840

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.6 Restriping - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	1.5506	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0169	0.0105	0.1694	4.6000e-004	0.0511	2.5000e-004	0.0513	0.0136	2.3000e-004	0.0138		46.0145	46.0145	1.0500e-003	1.0600e-003	46.3579
Total	0.0192	0.0787	0.1985	8.0000e-004	0.0634	7.5000e-004	0.0641	0.0171	7.1000e-004	0.0178		82.8930	82.8930	2.0100e-003	6.5100e-003	84.8840

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.6 Restriping - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	1.5361	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0157	9.3100e-003	0.1574	4.4000e-004	0.0511	2.4000e-004	0.0513	0.0136	2.2000e-004	0.0138		44.6720	44.6720	9.5000e-004	9.9000e-004	44.9895
Total	0.0179	0.0781	0.1860	7.8000e-004	0.0634	7.4000e-004	0.0641	0.0171	7.0000e-004	0.0178		81.0422	81.0422	1.8900e-003	6.3600e-003	82.9839

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.6 Restriping - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	1.5361	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0157	9.3100e-003	0.1574	4.4000e-004	0.0511	2.4000e-004	0.0513	0.0136	2.2000e-004	0.0138		44.6720	44.6720	9.5000e-004	9.9000e-004	44.9895
Total	0.0179	0.0781	0.1860	7.8000e-004	0.0634	7.4000e-004	0.0641	0.0171	7.0000e-004	0.0178		81.0422	81.0422	1.8900e-003	6.3600e-003	82.9839

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.7 Building Construction - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767		6,611.0338	6,611.0338	1.5269		6,649.2069
Total	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767		6,611.0338	6,611.0338	1.5269		6,649.2069

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0196	30.1462	12.8593	0.1520	5.4184	0.2232	5.6415	1.5603	0.2135	1.7738		16,300.3123	16,300.3123	0.4263	2.4079	17,028.5229
Worker	3.1675	1.9698	31.7618	0.0854	9.5798	0.0467	9.6265	2.5405	0.0430	2.5834		8,627.7184	8,627.7184	0.1970	0.1995	8,692.1083
Total	4.1871	32.1160	44.6211	0.2373	14.9981	0.2698	15.2680	4.1008	0.2564	4.3572		24,928.0308	24,928.0308	0.6233	2.6074	25,720.6312

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.7 Building Construction - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767	0.0000	6,611.0338	6,611.0338	1.5269		6,649.2069
Total	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767	0.0000	6,611.0338	6,611.0338	1.5269		6,649.2069

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0196	30.1462	12.8593	0.1520	5.4184	0.2232	5.6415	1.5603	0.2135	1.7738		16,300.3123	16,300.3123	0.4263	2.4079	17,028.5229
Worker	3.1675	1.9698	31.7618	0.0854	9.5798	0.0467	9.6265	2.5405	0.0430	2.5834		8,627.7184	8,627.7184	0.1970	0.1995	8,692.1083
Total	4.1871	32.1160	44.6211	0.2373	14.9981	0.2698	15.2680	4.1008	0.2564	4.3572		24,928.0308	24,928.0308	0.6233	2.6074	25,720.6312

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.7 Building Construction - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767		6,612.5216	6,612.5216	1.5179		6,650.4693
Total	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767		6,612.5216	6,612.5216	1.5179		6,650.4693

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9965	30.4089	12.6488	0.1499	5.4183	0.2197	5.6380	1.5603	0.2102	1.7705		16,075.6207	16,075.6207	0.4133	2.3744	16,793.5247
Worker	2.9423	1.7460	29.5123	0.0829	9.5798	0.0448	9.6246	2.5405	0.0412	2.5817		8,375.9985	8,375.9985	0.1781	0.1848	8,435.5269
Total	3.9388	32.1549	42.1611	0.2328	14.9981	0.2645	15.2626	4.1008	0.2514	4.3522		24,451.6193	24,451.6193	0.5914	2.5592	25,229.0516

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.7 Building Construction - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767	0.0000	6,612.5216	6,612.5216	1.5179		6,650.4693
Total	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767	0.0000	6,612.5216	6,612.5216	1.5179		6,650.4693

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9965	30.4089	12.6488	0.1499	5.4183	0.2197	5.6380	1.5603	0.2102	1.7705		16,075.6207	16,075.6207	0.4133	2.3744	16,793.5247
Worker	2.9423	1.7460	29.5123	0.0829	9.5798	0.0448	9.6246	2.5405	0.0412	2.5817		8,375.9985	8,375.9985	0.1781	0.1848	8,435.5269
Total	3.9388	32.1549	42.1611	0.2328	14.9981	0.2645	15.2626	4.1008	0.2514	4.3522		24,451.6193	24,451.6193	0.5914	2.5592	25,229.0516

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.8 Architectural Coating - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	202.6646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6202	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016		1,210.2388	1,210.2388	0.1659		1,214.3858
Total	203.2848	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016		1,210.2388	1,210.2388	0.1659		1,214.3858

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9023	0.5354	9.0504	0.0254	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,568.6396	2,568.6396	0.0546	0.0567	2,586.8949
Total	0.9023	0.5354	9.0504	0.0254	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,568.6396	2,568.6396	0.0546	0.0567	2,586.8949

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.8 Architectural Coating - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	202.6646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6202	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016	0.0000	1,210.2388	1,210.2388	0.1659		1,214.3858
Total	203.2848	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016	0.0000	1,210.2388	1,210.2388	0.1659		1,214.3858

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9023	0.5354	9.0504	0.0254	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,568.6396	2,568.6396	0.0546	0.0567	2,586.8949
Total	0.9023	0.5354	9.0504	0.0254	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,568.6396	2,568.6396	0.0546	0.0567	2,586.8949

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.9 Testing - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107		623.0346	623.0346	0.0252		623.6650
Total	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107		623.0346	623.0346	0.0252		623.6650

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0235	0.0140	0.2361	6.6000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		67.0080	67.0080	1.4200e-003	1.4800e-003	67.4842
Total	0.0235	0.0140	0.2361	6.6000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		67.0080	67.0080	1.4200e-003	1.4800e-003	67.4842

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.9 Testing - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107	0.0000	623.0346	623.0346	0.0252		623.6650
Total	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107	0.0000	623.0346	623.0346	0.0252		623.6650

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0235	0.0140	0.2361	6.6000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		67.0080	67.0080	1.4200e-003	1.4800e-003	67.4842
Total	0.0235	0.0140	0.2361	6.6000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		67.0080	67.0080	1.4200e-003	1.4800e-003	67.4842

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.10 Fine Grading - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					9.5549	0.0000	9.5549	3.7070	0.0000	3.7070			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.5549	1.3354	10.8903	3.7070	1.2286	4.9355		6,009.7487	6,009.7487	1.9437		6,058.3405

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.8526	39.4027	11.9923	0.1971	6.2528	0.4076	6.6604	1.7146	0.3900	2.1045			21,478.9664	21,478.9664	0.9056	3.4044	22,516.1156
Vendor	9.0200e-003	0.2752	0.1145	1.3600e-003	0.0490	1.9900e-003	0.0510	0.0141	1.9000e-003	0.0160			145.4807	145.4807	3.7400e-003	0.0215	151.9776
Worker	0.0785	0.0466	0.7870	2.2100e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688			223.3600	223.3600	4.7500e-003	4.9300e-003	224.9474
Total	0.9401	39.7245	12.8938	0.2007	6.5573	0.4108	6.9681	1.7964	0.3930	2.1894			21,847.8071	21,847.8071	0.9141	3.4308	22,893.0406

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.10 Fine Grading - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.2997	0.0000	4.2997	1.6681	0.0000	1.6681			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	4.2997	1.3354	5.6351	1.6681	1.2286	2.8967	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.8526	39.4027	11.9923	0.1971	6.2528	0.4076	6.6604	1.7146	0.3900	2.1045			21,478.9664	21,478.9664	0.9056	3.4044	22,516.1156
Vendor	9.0200e-003	0.2752	0.1145	1.3600e-003	0.0490	1.9900e-003	0.0510	0.0141	1.9000e-003	0.0160			145.4807	145.4807	3.7400e-003	0.0215	151.9776
Worker	0.0785	0.0466	0.7870	2.2100e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688			223.3600	223.3600	4.7500e-003	4.9300e-003	224.9474
Total	0.9401	39.7245	12.8938	0.2007	6.5573	0.4108	6.9681	1.7964	0.3930	2.1894			21,847.8071	21,847.8071	0.9141	3.4308	22,893.0406

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.11 Concrete Laydown - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2204	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548		2,069.4588	2,069.4588	0.6693		2,086.1914
Paving	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2488	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548		2,069.4588	2,069.4588	0.6693		2,086.1914

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4509	13.7597	5.7234	0.0678	2.4517	0.0994	2.5511	0.7060	0.0951	0.8011		7,274.0365	7,274.0365	0.1870	1.0744	7,598.8799
Worker	0.0785	0.0466	0.7870	2.2100e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		223.3600	223.3600	4.7500e-003	4.9300e-003	224.9474
Total	0.5294	13.8062	6.5104	0.0700	2.7072	0.1006	2.8078	0.7738	0.0962	0.8700		7,497.3965	7,497.3965	0.1918	1.0793	7,823.8273

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

3.11 Concrete Laydown - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2204	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548	0.0000	2,069.4588	2,069.4588	0.6693		2,086.1914
Paving	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2488	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548	0.0000	2,069.4588	2,069.4588	0.6693		2,086.1914

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4509	13.7597	5.7234	0.0678	2.4517	0.0994	2.5511	0.7060	0.0951	0.8011		7,274.0365	7,274.0365	0.1870	1.0744	7,598.8799
Worker	0.0785	0.0466	0.7870	2.2100e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		223.3600	223.3600	4.7500e-003	4.9300e-003	224.9474
Total	0.5294	13.8062	6.5104	0.0700	2.7072	0.1006	2.8078	0.7738	0.0962	0.8700		7,497.3965	7,497.3965	0.1918	1.0793	7,823.8273

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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	10.8673	235.8539	165.9252	1.6369	90.1921	2.6346	92.8267	24.7427	2.5142	27.2568		174,027.1834	174,027.1834	5.1077	21.0326	180,422.5774
Unmitigated	10.8673	235.8539	165.9252	1.6369	90.1921	2.6346	92.8267	24.7427	2.5142	27.2568		174,027.1834	174,027.1834	5.1077	21.0326	180,422.5774

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	1,473.34	1,473.34	1473.34	21,451,860	21,451,860
Unrefrigerated Warehouse-No Rail	3,382.35	3,382.35	3382.35	18,098,297	18,098,297
Total	4,855.70	4,855.70	4,855.70	39,550,156	39,550,156

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	40.00	0.00	0.00	100.00	100	0	0
Unrefrigerated Warehouse-No	14.70	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.165262	0.045632	0.183539	0.605567	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.600758	0.062281	0.191226	0.145734	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
NaturalGas Unmitigated	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53541.3	0.5774	5.2491	4.4093	0.0315		0.3989	0.3989		0.3989	0.3989		6,298.9716	6,298.9716	0.1207	0.1155	6,336.4032
Unrefrigerated Warehouse-No Rail	11788.7	0.1271	1.1558	0.9708	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,386.9032	1,386.9032	0.0266	0.0254	1,395.1449
Total		0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53.5413	0.5774	5.2491	4.4093	0.0315		0.3989	0.3989		0.3989	0.3989		6,298.9716	6,298.9716	0.1207	0.1155	6,336.4032
Unrefrigerated Warehouse-No Rail	11.7887	0.1271	1.1558	0.9708	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,386.9032	1,386.9032	0.0266	0.0254	1,395.1449
Total		0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

6.0 Area Detail

6.1 Mitigation Measures Area

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Unmitigated	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017

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	3.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.8691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0242	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Total	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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	3.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.8691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0242	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Total	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	151	24.00	365	89	0.20	Diesel
Other Material Handling Equipment	9	24.00	365	200	0.40	Diesel

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Equipment Type	lb/day										lb/day						
Forklifts	39.3609	370.7980	513.5895	0.6925		19.8500	19.8500		18.2620	18.2620	0.0000	67,057.9662	67,057.9662	21.6879			67,600.1638
Other Material Handling Equipment	7.6083	67.5638	45.6113	0.1856		2.2854	2.2854		2.1025	2.1025	0.0000	17,961.5215	17,961.5215	5.8091			18,106.7495
Total	46.9692	438.3618	559.2008	0.8781		22.1354	22.1354		20.3646	20.3646	0.0000	85,019.4877	85,019.4877	27.4970			85,706.9133

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	1	50	500	1	Diesel

Boilers

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

Equipment Type	Number
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Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Summer

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

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	3.3721	9.4248	8.5980	0.0162		0.4960	0.4960		0.4960	0.4960		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	3.3721	9.4248	8.5980	0.0162		0.4960	0.4960		0.4960	0.4960		1,725.0290	1,725.0290	0.2419		1,731.0753

11.0 Vegetation

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

**Apple Valley 143 - Unmitigated
San Bernardino-Mojave Desert County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	377.78	1000sqft	19.61	377,780.00	0
Unrefrigerated Warehouse-No Rail	2,140.73	1000sqft	61.84	2,140,730.00	0
Other Asphalt Surfaces	0.65	Acre	0.65	28,314.00	0
Other Non-Asphalt Surfaces	45.68	Acre	45.68	1,989,820.80	0
Other Non-Asphalt Surfaces	16.73	Acre	16.73	728,758.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10	Operational Year	2025		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Apple Valley 143 Project

Land Use - On-Site Land uses: High Cube Cold Storage (Refrigerated Warehouse), High Cube Non-Cold Storage (Unrefrigerated Warehouse), and Parking Lots/Driveways. Off-site 0.65 acres of asphalt surfaces for repave

Construction Phase - Adjusted schedule based on applicant input and representative water pipeline project experience

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input - Laser Screeds (x2) modeled as "Other Construction Equipment" and Concrete Finishing Machines (x2) modeled as "Surfacing Equipment"

Off-road Equipment - Adjusted based on applicant input

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

Off-road Equipment -

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Trips and VMT - Trips adjusted per applicant input, with 2 water trucks added during site prep and grading. Offsite water pipeline construction vehicles based on a representative water pipeline project, scaled to the length of the proposed pipeline

Grading - Default onsite acres. Offsite grading for pipeline input as 0.65 acres. Total of 150,000 CY assumed export during onsite mass/fine grading and 2,288 CY assumed export during offsite grading

Architectural Coating - Adjusted VOC content per MDAQMD Rule 1113. Adjusted restriping for offsite repavement to anticipated asphalt area.

Vehicle Trips - Trip generation based on traffic report, with Refrigerated Warehouse used to estimate trucks and Unrefrigerated Warehouse used to estimate employee trips. Truck triplength of 40 miles and worker triplength of 14.7 miles assumed

Area Coating - Adjusted VOC content based on MDAQMD Rule 1113

Water And Wastewater - Adjusted water demand based on Water Supply Assessment

Construction Off-road Equipment Mitigation - MDAQMD Rule 403: compliance assumed with watering site 2x per day and limiting vehicle speed to 15 mph on unpaved areas

Operational Off-Road Equipment - Forklifts and yard trucks based on the SCAQMD High-Cube Business Survey. Assumed 50% Diesel/50% electric forklifts and 100% diesel yard trucks. GHGs from electric forklifts were estimated outside of CalEEMod.

Fleet Mix - Adjusted fleetmix to match traffic report with Refrigerated Warehouse used to model trucks and Unrefrigerated Warehouse used to model workers

Stationary Sources - Emergency Generators and Fire Pumps - 1x 500hp diesel emergency generator assumed per building. Routine testing of 1 hour per day, 50 hours per year

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	104,980.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	47,500.00

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	170.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	5.00
tblConstructionPhase	NumDays	3,100.00	199.00
tblConstructionPhase	NumDays	310.00	30.00
tblConstructionPhase	NumDays	310.00	95.00
tblConstructionPhase	NumDays	310.00	15.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	165.00
tblConstructionPhase	NumDays	120.00	15.00
tblFleetMix	HHD	0.02	0.61
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.60
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.0090e-003	0.05

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

tblFleetMix	LHD2	7.0090e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.15
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MHD	0.01	0.18
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblGrading	AcresOfGrading	0.00	0.65
tblGrading	MaterialExported	0.00	112,504.00
tblGrading	MaterialExported	0.00	2,288.00
tblGrading	MaterialExported	0.00	37,496.00
tblLandUse	LotAcreage	8.67	19.61
tblLandUse	LotAcreage	49.14	61.84
tblOffRoadEquipment	HorsePower	172.00	65.00
tblOffRoadEquipment	HorsePower	263.00	107.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	168.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	151.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	9.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	24.00
tblTripsAndVMT	HaulingTripNumber	14,063.00	16,072.00
tblTripsAndVMT	HaulingTripNumber	4,687.00	5,356.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	400.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	863.00	884.00
tbITripsAndVMT	VendorTripNumber	0.00	8.00
tbITripsAndVMT	WorkerTripNumber	5.00	20.00
tbITripsAndVMT	WorkerTripNumber	25.00	30.00
tbITripsAndVMT	WorkerTripNumber	10.00	16.00
tbITripsAndVMT	WorkerTripNumber	442.00	4.00
tbITripsAndVMT	WorkerTripNumber	2,211.00	750.00
tbITripsAndVMT	WorkerTripNumber	442.00	230.00
tbITripsAndVMT	WorkerTripNumber	442.00	6.00
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CNW_TL	6.60	40.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.12	3.90
tblVehicleTrips	ST_TR	1.74	1.58

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

tblVehicleTrips	SU_TR	2.12	3.90
tblVehicleTrips	SU_TR	1.74	1.58
tblVehicleTrips	WD_TR	2.12	3.90
tblVehicleTrips	WD_TR	1.74	1.58
tblWater	IndoorWaterUseRate	87,361,625.00	1,611,908.59
tblWater	IndoorWaterUseRate	495,043,812.50	9,134,049.12

2.0 Emissions Summary

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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					
2023	10.9702	129.4640	107.4032	0.4404	22.1233	3.4697	25.5930	6.7721	3.2438	10.0159	0.0000	46,341.4903	46,341.4903	5.0157	5.2896	48,043.1886
2024	215.5503	146.0465	137.5214	0.5935	34.0480	3.6885	37.7365	10.3832	3.4654	13.8486	0.0000	61,724.8586	61,724.8586	5.1790	6.0673	63,662.3754
Maximum	215.5503	146.0465	137.5214	0.5935	34.0480	3.6885	37.7365	10.3832	3.4654	13.8486	0.0000	61,724.8586	61,724.8586	5.1790	6.0673	63,662.3754

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					
2023	10.9702	129.4640	107.4032	0.4404	15.5991	3.4697	19.0688	4.5919	3.2438	7.8357	0.0000	46,341.4903	46,341.4903	5.0157	5.2896	48,043.1886
2024	215.5503	146.0465	137.5214	0.5935	28.7928	3.6885	32.4813	8.3444	3.4654	11.8098	0.0000	61,724.8586	61,724.8586	5.1790	6.0673	63,662.3754
Maximum	215.5503	146.0465	137.5214	0.5935	28.7928	3.6885	32.4813	8.3444	3.4654	11.8098	0.0000	61,724.8586	61,724.8586	5.1790	6.0673	63,662.3754

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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	20.97	0.00	18.60	24.59	0.00	17.68	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Energy	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
Mobile	9.7127	247.6047	148.8060	1.6082	90.1921	2.6363	92.8284	24.7427	2.5158	27.2584		171,137.1026	171,137.1026	5.1055	21.0802	177,546.6411
Offroad	46.9692	438.3618	559.2008	0.8781		22.1354	22.1354		20.3646	20.3646	0.0000	85,019.4877	85,019.4877	27.4970		85,706.9133
Stationary	3.3721	9.4248	8.5980	0.0162		0.4960	0.4960		0.4960	0.4960		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	119.0592	701.7985	722.2479	2.5409	90.1921	25.7554	115.9475	24.7427	23.8641	48.6067	0.0000	265,568.0591	265,568.0591	32.9932	21.2211	272,716.7795

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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

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	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Energy	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
Mobile	9.7127	247.6047	148.8060	1.6082	90.1921	2.6363	92.8284	24.7427	2.5158	27.2584		171,137.1026	171,137.1026	5.1055	21.0802	177,546.6411
Offroad	46.9692	438.3618	559.2008	0.8781		22.1354	22.1354		20.3646	20.3646	0.0000	85,019.4877	85,019.4877	27.4970		85,706.9133
Stationary	3.3721	9.4248	8.5980	0.0162		0.4960	0.4960		0.4960	0.4960		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	119.0592	701.7985	722.2479	2.5409	90.1921	25.7554	115.9475	24.7427	23.8641	48.6067	0.0000	265,568.0591	265,568.0591	32.9932	21.2211	272,716.7795

	ROG	NOx	CO	SO2	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 - Onsite	Site Preparation	10/1/2023	10/20/2023	5	15	
2	Mass Grading - Onsite	Grading	10/21/2023	12/1/2023	5	30	
3	Road Removal/ Pipeline Install - Offsite	Grading	11/1/2023	3/12/2024	5	95	

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

4	Pipeline Paving - Offsite	Paving	11/1/2023	6/18/2024	5	165
5	Restriping - Offsite	Architectural Coating	11/1/2023	6/25/2024	5	170
6	Building Construction - Onsite	Building Construction	12/2/2023	9/5/2024	5	199
7	Architectural Coating - Onsite	Architectural Coating	6/14/2024	9/5/2024	5	60
8	Testing - Offsite	Architectural Coating	6/26/2024	7/2/2024	5	5
9	Fine Grading - Onsite	Grading	8/16/2024	9/5/2024	5	15
10	Concrete Laydown - Onsite	Paving	9/6/2024	11/28/2024	5	60

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 150

Acres of Paving: 63.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 47,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation - Onsite	Crawler Tractors	1	8.00	212	0.43
Site Preparation - Onsite	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation - Onsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Mass Grading - Onsite	Excavators	2	8.00	158	0.38
Mass Grading - Onsite	Graders	1	8.00	187	0.41
Mass Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Mass Grading - Onsite	Scrapers	4	8.00	367	0.48
Mass Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Road Removal/ Pipeline Install - Offsite	Concrete/Industrial Saws	1	8.00	81	0.73
Road Removal/ Pipeline Install - Offsite	Excavators	1	8.00	158	0.38
Road Removal/ Pipeline Install - Offsite	Graders	0	8.00	187	0.41
Road Removal/ Pipeline Install - Offsite	Pumps	1	8.00	84	0.74
Road Removal/ Pipeline Install - Offsite	Rubber Tired Dozers	0	8.00	247	0.40

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

Road Removal/ Pipeline Install - Offsite	Scrapers	0	8.00	367	0.48
Road Removal/ Pipeline Install - Offsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipeline Paving - Offsite	Pavers	1	8.00	130	0.42
Pipeline Paving - Offsite	Paving Equipment	1	8.00	132	0.36
Pipeline Paving - Offsite	Rollers	1	8.00	80	0.38
Restriping - Offsite	Air Compressors	1	8.00	78	0.48
Building Construction - Onsite	Aerial Lifts	3	7.00	63	0.31
Building Construction - Onsite	Cranes	1	7.00	231	0.29
Building Construction - Onsite	Forklifts	7	8.00	89	0.20
Building Construction - Onsite	Generator Sets	3	8.00	84	0.74
Building Construction - Onsite	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction - Onsite	Welders	2	8.00	46	0.45
Architectural Coating - Onsite	Aerial Lifts	3	6.00	63	0.31
Architectural Coating - Onsite	Air Compressors	3	6.00	78	0.48
Testing - Offsite	Air Compressors	0	6.00	78	0.48
Testing - Offsite	Generator Sets	1	8.00	84	0.74
Fine Grading - Onsite	Excavators	2	8.00	158	0.38
Fine Grading - Onsite	Graders	1	8.00	187	0.41
Fine Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading - Onsite	Scrapers	2	8.00	367	0.48
Fine Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Concrete Laydown - Onsite	Other Construction Equipment	2	8.00	65	0.42
Concrete Laydown - Onsite	Pavers	0	8.00	130	0.42
Concrete Laydown - Onsite	Paving Equipment	0	8.00	132	0.36
Concrete Laydown - Onsite	Rollers	0	8.00	80	0.38
Concrete Laydown - Onsite	Surfacing Equipment	6	8.00	107	0.30

Trips and VMT

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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
Site Preparation - Onsite	2	20.00	4.00	24.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Mass Grading - Onsite	10	30.00	8.00	16,072.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Road Removal/ Pipeline Install - Offsite	4	16.00	2.00	286.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Paving - Offsite	3	8.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restriping - Offsite	1	4.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Onsite	25	750.00	884.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Onsite	6	230.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Testing - Offsite	1	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading - Onsite	8	20.00	8.00	5,356.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Concrete Laydown - Onsite	8	20.00	400.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.2 Site Preparation - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5955	6.6603	4.4750	0.0110		0.2746	0.2746		0.2526	0.2526		1,059.848 2	1,059.848 2	0.3428		1,068.417 6
Total	0.5955	6.6603	4.4750	0.0110	0.5303	0.2746	0.8048	0.0573	0.2526	0.3098		1,059.848 2	1,059.848 2	0.3428		1,068.417 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.5600e-003	0.1855	0.0546	9.0000e-004	0.0280	1.8500e-003	0.0299	7.6800e-003	1.7700e-003	9.4600e-003		98.0953	98.0953	4.1600e-003	0.0156	102.8329
Vendor	4.2900e-003	0.1441	0.0600	6.9000e-004	0.0245	1.0100e-003	0.0255	7.0600e-003	9.7000e-004	8.0300e-003		73.9433	73.9433	1.9100e-003	0.0109	77.2483
Worker	0.0822	0.0552	0.6928	2.0600e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1500e-003	0.0689		208.4024	208.4024	5.2100e-003	5.4900e-003	210.1687
Total	0.0900	0.3849	0.8074	3.6500e-003	0.3080	4.1000e-003	0.3121	0.0825	3.8900e-003	0.0864		380.4409	380.4409	0.0113	0.0320	390.2499

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.2 Site Preparation - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.5955	6.6603	4.4750	0.0110		0.2746	0.2746		0.2526	0.2526	0.0000	1,059.848 2	1,059.848 2	0.3428		1,068.417 6
Total	0.5955	6.6603	4.4750	0.0110	0.2386	0.2746	0.5132	0.0258	0.2526	0.2783	0.0000	1,059.848 2	1,059.848 2	0.3428		1,068.417 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	3.5600e-003	0.1855	0.0546	9.0000e-004	0.0280	1.8500e-003	0.0299	7.6800e-003	1.7700e-003	9.4600e-003		98.0953	98.0953	4.1600e-003	0.0156	102.8329
Vendor	4.2900e-003	0.1441	0.0600	6.9000e-004	0.0245	1.0100e-003	0.0255	7.0600e-003	9.7000e-004	8.0300e-003		73.9433	73.9433	1.9100e-003	0.0109	77.2483
Worker	0.0822	0.0552	0.6928	2.0600e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1500e-003	0.0689		208.4024	208.4024	5.2100e-003	5.4900e-003	210.1687
Total	0.0900	0.3849	0.8074	3.6500e-003	0.3080	4.1000e-003	0.3121	0.0825	3.8900e-003	0.0864		380.4409	380.4409	0.0113	0.0320	390.2499

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.3 Mass Grading - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.8516	0.0000	11.8516	3.9626	0.0000	3.9626			0.0000			0.0000
Off-Road	4.8953	51.0824	40.3252	0.0925		2.0741	2.0741		1.9081	1.9081		8,951.735 3	8,951.735 3	2.8952		9,024.114 6
Total	4.8953	51.0824	40.3252	0.0925	11.8516	2.0741	13.9256	3.9626	1.9081	5.8707		8,951.735 3	8,951.735 3	2.8952		9,024.114 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1935	62.1135	18.2710	0.3014	9.3817	0.6207	10.0025	2.5725	0.5939	3.1664		32,845.57 42	32,845.57 42	1.3945	5.2062	34,431.87 83
Vendor	8.5700e-003	0.2882	0.1200	1.3800e-003	0.0490	2.0300e-003	0.0511	0.0141	1.9400e-003	0.0161		147.8865	147.8865	3.8300e-003	0.0219	154.4967
Worker	0.1233	0.0828	1.0392	3.0900e-003	0.3832	1.8700e-003	0.3851	0.1016	1.7200e-003	0.1033		312.6036	312.6036	7.8100e-003	8.2400e-003	315.2530
Total	1.3253	62.4845	19.4302	0.3059	9.8140	0.6246	10.4386	2.6883	0.5975	3.2858		33,306.06 42	33,306.06 42	1.4061	5.2363	34,901.62 80

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.3 Mass Grading - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3332	0.0000	5.3332	1.7832	0.0000	1.7832			0.0000			0.0000
Off-Road	4.8953	51.0824	40.3252	0.0925		2.0741	2.0741		1.9081	1.9081	0.0000	8,951.735 3	8,951.735 3	2.8952		9,024.114 6
Total	4.8953	51.0824	40.3252	0.0925	5.3332	2.0741	7.4073	1.7832	1.9081	3.6913	0.0000	8,951.735 3	8,951.735 3	2.8952		9,024.114 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	1.1935	62.1135	18.2710	0.3014	9.3817	0.6207	10.0025	2.5725	0.5939	3.1664		32,845.57 42	32,845.57 42	1.3945	5.2062	34,431.87 83
Vendor	8.5700e-003	0.2882	0.1200	1.3800e-003	0.0490	2.0300e-003	0.0511	0.0141	1.9400e-003	0.0161		147.8865	147.8865	3.8300e-003	0.0219	154.4967
Worker	0.1233	0.0828	1.0392	3.0900e-003	0.3832	1.8700e-003	0.3851	0.1016	1.7200e-003	0.1033		312.6036	312.6036	7.8100e-003	8.2400e-003	315.2530
Total	1.3253	62.4845	19.4302	0.3059	9.8140	0.6246	10.4386	2.6883	0.5975	3.2858		33,306.06 42	33,306.06 42	1.4061	5.2363	34,901.62 80

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.4 Road Removal/ Pipeline Install - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0106	0.0000	0.0106	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	1.0016	8.4214	12.8717	0.0211		0.4147	0.4147		0.4026	0.4026		2,017.3824	2,017.3824	0.3170		2,025.3070
Total	1.0016	8.4214	12.8717	0.0211	0.0106	0.4147	0.4254	1.3000e-003	0.4026	0.4039		2,017.3824	2,017.3824	0.3170		2,025.3070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7100e-003	0.3490	0.1027	1.6900e-003	0.0527	3.4900e-003	0.0562	0.0145	3.3400e-003	0.0178		184.5740	184.5740	7.8400e-003	0.0293	193.4882
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0657	0.0442	0.5542	1.6500e-003	0.2044	1.0000e-003	0.2054	0.0542	9.2000e-004	0.0551		166.7219	166.7219	4.1700e-003	4.3900e-003	168.1350
Total	0.0746	0.4653	0.6869	3.6800e-003	0.2694	5.0000e-003	0.2743	0.0722	4.7500e-003	0.0769		388.2676	388.2676	0.0130	0.0391	400.2473

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.4 Road Removal/ Pipeline Install - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7900e-003	0.0000	4.7900e-003	5.8000e-004	0.0000	5.8000e-004			0.0000			0.0000
Off-Road	1.0016	8.4214	12.8717	0.0211		0.4147	0.4147		0.4026	0.4026	0.0000	2,017.3824	2,017.3824	0.3170		2,025.3070
Total	1.0016	8.4214	12.8717	0.0211	4.7900e-003	0.4147	0.4195	5.8000e-004	0.4026	0.4032	0.0000	2,017.3824	2,017.3824	0.3170		2,025.3070

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7100e-003	0.3490	0.1027	1.6900e-003	0.0527	3.4900e-003	0.0562	0.0145	3.3400e-003	0.0178		184.5740	184.5740	7.8400e-003	0.0293	193.4882
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0657	0.0442	0.5542	1.6500e-003	0.2044	1.0000e-003	0.2054	0.0542	9.2000e-004	0.0551		166.7219	166.7219	4.1700e-003	4.3900e-003	168.1350
Total	0.0746	0.4653	0.6869	3.6800e-003	0.2694	5.0000e-003	0.2743	0.0722	4.7500e-003	0.0769		388.2676	388.2676	0.0130	0.0391	400.2473

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.4 Road Removal/ Pipeline Install - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0106	0.0000	0.0106	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	0.9429	7.8439	12.8705	0.0211		0.3634	0.3634		0.3526	0.3526		2,017.7313	2,017.7313	0.3150		2,025.6053
Total	0.9429	7.8439	12.8705	0.0211	0.0106	0.3634	0.3741	1.3000e-003	0.3526	0.3539		2,017.7313	2,017.7313	0.3150		2,025.6053

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.6400e-003	0.3502	0.1029	1.6600e-003	0.0527	3.4400e-003	0.0562	0.0145	3.2900e-003	0.0178		181.3703	181.3703	7.6100e-003	0.0288	190.1271
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0612	0.0391	0.5155	1.6000e-003	0.2044	9.6000e-004	0.2053	0.0542	8.8000e-004	0.0551		161.8939	161.8939	3.7700e-003	4.0700e-003	163.2001
Total	0.0700	0.4620	0.6479	3.6000e-003	0.2694	4.9000e-003	0.2742	0.0722	4.6500e-003	0.0768		379.7269	379.7269	0.0123	0.0382	391.4190

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.4 Road Removal/ Pipeline Install - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.7900e-003	0.0000	4.7900e-003	5.8000e-004	0.0000	5.8000e-004			0.0000			0.0000
Off-Road	0.9429	7.8439	12.8705	0.0211		0.3634	0.3634		0.3526	0.3526	0.0000	2,017.7313	2,017.7313	0.3150		2,025.6053
Total	0.9429	7.8439	12.8705	0.0211	4.7900e-003	0.3634	0.3682	5.8000e-004	0.3526	0.3532	0.0000	2,017.7313	2,017.7313	0.3150		2,025.6053

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.6400e-003	0.3502	0.1029	1.6600e-003	0.0527	3.4400e-003	0.0562	0.0145	3.2900e-003	0.0178		181.3703	181.3703	7.6100e-003	0.0288	190.1271
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0612	0.0391	0.5155	1.6000e-003	0.2044	9.6000e-004	0.2053	0.0542	8.8000e-004	0.0551		161.8939	161.8939	3.7700e-003	4.0700e-003	163.2001
Total	0.0700	0.4620	0.6479	3.6000e-003	0.2694	4.9000e-003	0.2742	0.0722	4.6500e-003	0.0768		379.7269	379.7269	0.0123	0.0382	391.4190

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.5 Pipeline Paving - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5164	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347		1,103.7921	1,103.7921	0.3570		1,112.7168
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5267	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347		1,103.7921	1,103.7921	0.3570		1,112.7168

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0329	0.0221	0.2771	8.2000e-004	0.1022	5.0000e-004	0.1027	0.0271	4.6000e-004	0.0276		83.3610	83.3610	2.0800e-003	2.2000e-003	84.0675
Total	0.0350	0.0942	0.3071	1.1600e-003	0.1144	1.0100e-003	0.1155	0.0306	9.5000e-004	0.0316		120.3326	120.3326	3.0400e-003	7.6700e-003	122.6916

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.5 Pipeline Paving - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5164	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347	0.0000	1,103.7921	1,103.7921	0.3570		1,112.7168
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5267	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347	0.0000	1,103.7921	1,103.7921	0.3570		1,112.7168

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0329	0.0221	0.2771	8.2000e-004	0.1022	5.0000e-004	0.1027	0.0271	4.6000e-004	0.0276		83.3610	83.3610	2.0800e-003	2.2000e-003	84.0675
Total	0.0350	0.0942	0.3071	1.1600e-003	0.1144	1.0100e-003	0.1155	0.0306	9.5000e-004	0.0316		120.3326	120.3326	3.0400e-003	7.6700e-003	122.6916

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.5 Pipeline Paving - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4941	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155		1,103.7736	1,103.7736	0.3570		1,112.6982
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5044	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155		1,103.7736	1,103.7736	0.3570		1,112.6982

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0306	0.0196	0.2577	8.0000e-004	0.1022	4.8000e-004	0.1027	0.0271	4.4000e-004	0.0275		80.9469	80.9469	1.8900e-003	2.0300e-003	81.6000
Total	0.0327	0.0923	0.2873	1.1400e-003	0.1144	9.8000e-004	0.1154	0.0306	9.2000e-004	0.0316		117.4096	117.4096	2.8200e-003	7.4200e-003	119.6919

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.5 Pipeline Paving - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4941	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155	0.0000	1,103.7736	1,103.7736	0.3570		1,112.6982
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5044	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155	0.0000	1,103.7736	1,103.7736	0.3570		1,112.6982

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0306	0.0196	0.2577	8.0000e-004	0.1022	4.8000e-004	0.1027	0.0271	4.4000e-004	0.0275		80.9469	80.9469	1.8900e-003	2.0300e-003	81.6000
Total	0.0327	0.0923	0.2873	1.1400e-003	0.1144	9.8000e-004	0.1154	0.0306	9.2000e-004	0.0316		117.4096	117.4096	2.8200e-003	7.4200e-003	119.6919

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.6 Restriping - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	1.5506	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0164	0.0110	0.1386	4.1000e-004	0.0511	2.5000e-004	0.0513	0.0136	2.3000e-004	0.0138		41.6805	41.6805	1.0400e-003	1.1000e-003	42.0337
Total	0.0186	0.0831	0.1686	7.5000e-004	0.0634	7.6000e-004	0.0641	0.0171	7.2000e-004	0.0178		78.6521	78.6521	2.0000e-003	6.5700e-003	80.6579

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.6 Restriping - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	1.5506	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0164	0.0110	0.1386	4.1000e-004	0.0511	2.5000e-004	0.0513	0.0136	2.3000e-004	0.0138		41.6805	41.6805	1.0400e-003	1.1000e-003	42.0337
Total	0.0186	0.0831	0.1686	7.5000e-004	0.0634	7.6000e-004	0.0641	0.0171	7.2000e-004	0.0178		78.6521	78.6521	2.0000e-003	6.5700e-003	80.6579

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.6 Restriping - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	1.5361	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0153	9.7800e-003	0.1289	4.0000e-004	0.0511	2.4000e-004	0.0513	0.0136	2.2000e-004	0.0138		40.4735	40.4735	9.4000e-004	1.0200e-003	40.8000
Total	0.0174	0.0825	0.1584	7.4000e-004	0.0634	7.4000e-004	0.0641	0.0171	7.0000e-004	0.0178		76.9362	76.9362	1.8700e-003	6.4100e-003	78.8918

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.6 Restriping - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	1.5361	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0153	9.7800e-003	0.1289	4.0000e-004	0.0511	2.4000e-004	0.0513	0.0136	2.2000e-004	0.0138		40.4735	40.4735	9.4000e-004	1.0200e-003	40.8000
Total	0.0174	0.0825	0.1584	7.4000e-004	0.0634	7.4000e-004	0.0641	0.0171	7.0000e-004	0.0178		76.9362	76.9362	1.8700e-003	6.4100e-003	78.8918

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.7 Building Construction - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767		6,611.0338	6,611.0338	1.5269		6,649.2069
Total	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767		6,611.0338	6,611.0338	1.5269		6,649.2069

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9472	31.8502	13.2618	0.1524	5.4184	0.2241	5.6425	1.5603	0.2144	1.7747		16,341.4574	16,341.4574	0.4227	2.4156	17,071.8842
Worker	3.0813	2.0707	25.9794	0.0773	9.5798	0.0467	9.6265	2.5405	0.0430	2.5834		7,815.0900	7,815.0900	0.1952	0.2059	7,881.3256
Total	4.0285	33.9209	39.2412	0.2297	14.9981	0.2708	15.2689	4.1008	0.2574	4.3581		24,156.5474	24,156.5474	0.6180	2.6215	24,953.2097

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.7 Building Construction - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767	0.0000	6,611.0338	6,611.0338	1.5269		6,649.2069
Total	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767	0.0000	6,611.0338	6,611.0338	1.5269		6,649.2069

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9472	31.8502	13.2618	0.1524	5.4184	0.2241	5.6425	1.5603	0.2144	1.7747		16,341.4574	16,341.4574	0.4227	2.4156	17,071.8842
Worker	3.0813	2.0707	25.9794	0.0773	9.5798	0.0467	9.6265	2.5405	0.0430	2.5834		7,815.0900	7,815.0900	0.1952	0.2059	7,881.3256
Total	4.0285	33.9209	39.2412	0.2297	14.9981	0.2708	15.2689	4.1008	0.2574	4.3581		24,156.5474	24,156.5474	0.6180	2.6215	24,953.2097

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.7 Building Construction - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767		6,612.5216	6,612.5216	1.5179		6,650.4693
Total	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767		6,612.5216	6,612.5216	1.5179		6,650.4693

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9239	32.1241	13.0476	0.1503	5.4183	0.2206	5.6389	1.5603	0.2111	1.7714		16,116.5157	16,116.5157	0.4098	2.3820	16,836.5853
Worker	2.8700	1.8347	24.1617	0.0751	9.5798	0.0448	9.6246	2.5405	0.0412	2.5817		7,588.7749	7,588.7749	0.1768	0.1906	7,650.0024
Total	3.7938	33.9587	37.2093	0.2254	14.9981	0.2654	15.2635	4.1008	0.2523	4.3530		23,705.2906	23,705.2906	0.5866	2.5726	24,486.5877

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.7 Building Construction - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767	0.0000	6,612.5216	6,612.5216	1.5179		6,650.4693
Total	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767	0.0000	6,612.5216	6,612.5216	1.5179		6,650.4693

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9239	32.1241	13.0476	0.1503	5.4183	0.2206	5.6389	1.5603	0.2111	1.7714		16,116.5157	16,116.5157	0.4098	2.3820	16,836.5853
Worker	2.8700	1.8347	24.1617	0.0751	9.5798	0.0448	9.6246	2.5405	0.0412	2.5817		7,588.7749	7,588.7749	0.1768	0.1906	7,650.0024
Total	3.7938	33.9587	37.2093	0.2254	14.9981	0.2654	15.2635	4.1008	0.2523	4.3530		23,705.2906	23,705.2906	0.5866	2.5726	24,486.5877

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.8 Architectural Coating - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	202.6646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6202	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016		1,210.2388	1,210.2388	0.1659		1,214.3858
Total	203.2848	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016		1,210.2388	1,210.2388	0.1659		1,214.3858

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8801	0.5626	7.4096	0.0230	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,327.2243	2,327.2243	0.0542	0.0585	2,346.0007
Total	0.8801	0.5626	7.4096	0.0230	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,327.2243	2,327.2243	0.0542	0.0585	2,346.0007

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.8 Architectural Coating - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	202.6646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6202	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016	0.0000	1,210.2388	1,210.2388	0.1659		1,214.3858
Total	203.2848	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016	0.0000	1,210.2388	1,210.2388	0.1659		1,214.3858

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8801	0.5626	7.4096	0.0230	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,327.2243	2,327.2243	0.0542	0.0585	2,346.0007
Total	0.8801	0.5626	7.4096	0.0230	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,327.2243	2,327.2243	0.0542	0.0585	2,346.0007

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.9 Testing - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107		623.0346	623.0346	0.0252		623.6650
Total	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107		623.0346	623.0346	0.0252		623.6650

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0230	0.0147	0.1933	6.0000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		60.7102	60.7102	1.4100e-003	1.5300e-003	61.2000
Total	0.0230	0.0147	0.1933	6.0000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		60.7102	60.7102	1.4100e-003	1.5300e-003	61.2000

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.9 Testing - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107	0.0000	623.0346	623.0346	0.0252		623.6650
Total	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107	0.0000	623.0346	623.0346	0.0252		623.6650

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0230	0.0147	0.1933	6.0000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		60.7102	60.7102	1.4100e-003	1.5300e-003	61.2000
Total	0.0230	0.0147	0.1933	6.0000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		60.7102	60.7102	1.4100e-003	1.5300e-003	61.2000

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.10 Fine Grading - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					9.5549	0.0000	9.5549	3.7070	0.0000	3.7070			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.5549	1.3354	10.8903	3.7070	1.2286	4.9355		6,009.7487	6,009.7487	1.9437		6,058.3405

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7878	41.5355	12.2072	0.1974	6.2528	0.4083	6.6611	1.7146	0.3906	2.1052		21,511.6165	21,511.6165	0.9024	3.4096	22,550.2240
Vendor	8.3600e-003	0.2907	0.1181	1.3600e-003	0.0490	2.0000e-003	0.0510	0.0141	1.9100e-003	0.0160		145.8508	145.8508	3.7100e-003	0.0216	152.3673
Worker	0.0765	0.0489	0.6443	2.0000e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		202.3673	202.3673	4.7100e-003	5.0800e-003	204.0001
Total	0.8727	41.8752	12.9696	0.2008	6.5573	0.4115	6.9688	1.7964	0.3936	2.1900		21,859.8346	21,859.8346	0.9108	3.4362	22,906.5913

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.10 Fine Grading - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.2997	0.0000	4.2997	1.6681	0.0000	1.6681			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	4.2997	1.3354	5.6351	1.6681	1.2286	2.8967	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7878	41.5355	12.2072	0.1974	6.2528	0.4083	6.6611	1.7146	0.3906	2.1052		21,511.6165	21,511.6165	0.9024	3.4096	22,550.2240
Vendor	8.3600e-003	0.2907	0.1181	1.3600e-003	0.0490	2.0000e-003	0.0510	0.0141	1.9100e-003	0.0160		145.8508	145.8508	3.7100e-003	0.0216	152.3673
Worker	0.0765	0.0489	0.6443	2.0000e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		202.3673	202.3673	4.7100e-003	5.0800e-003	204.0001
Total	0.8727	41.8752	12.9696	0.2008	6.5573	0.4115	6.9688	1.7964	0.3936	2.1900		21,859.8346	21,859.8346	0.9108	3.4362	22,906.5913

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.11 Concrete Laydown - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2204	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548		2,069.4588	2,069.4588	0.6693		2,086.1914
Paving	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2488	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548		2,069.4588	2,069.4588	0.6693		2,086.1914

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4180	14.5358	5.9039	0.0680	2.4517	0.0998	2.5516	0.7060	0.0955	0.8015		7,292.5410	7,292.5410	0.1854	1.0778	7,618.3644
Worker	0.0765	0.0489	0.6443	2.0000e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		202.3673	202.3673	4.7100e-003	5.0800e-003	204.0001
Total	0.4946	14.5847	6.5482	0.0700	2.7072	0.1010	2.8082	0.7738	0.0966	0.8704		7,494.9084	7,494.9084	0.1901	1.0829	7,822.3645

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert County, Winter

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

3.11 Concrete Laydown - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2204	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548	0.0000	2,069.4588	2,069.4588	0.6693		2,086.1914
Paving	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2488	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548	0.0000	2,069.4588	2,069.4588	0.6693		2,086.1914

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4180	14.5358	5.9039	0.0680	2.4517	0.0998	2.5516	0.7060	0.0955	0.8015		7,292.5410	7,292.5410	0.1854	1.0778	7,618.3644
Worker	0.0765	0.0489	0.6443	2.0000e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		202.3673	202.3673	4.7100e-003	5.0800e-003	204.0001
Total	0.4946	14.5847	6.5482	0.0700	2.7072	0.1010	2.8082	0.7738	0.0966	0.8704		7,494.9084	7,494.9084	0.1901	1.0829	7,822.3645

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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	9.7127	247.6047	148.8060	1.6082	90.1921	2.6363	92.8284	24.7427	2.5158	27.2584		171,137.1026	171,137.1026	5.1055	21.0802	177,546.6411
Unmitigated	9.7127	247.6047	148.8060	1.6082	90.1921	2.6363	92.8284	24.7427	2.5158	27.2584		171,137.1026	171,137.1026	5.1055	21.0802	177,546.6411

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	1,473.34	1,473.34	1473.34	21,451,860	21,451,860
Unrefrigerated Warehouse-No Rail	3,382.35	3,382.35	3382.35	18,098,297	18,098,297
Total	4,855.70	4,855.70	4,855.70	39,550,156	39,550,156

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Apple Valley 143 - Unmitigated - San Bernardino-Mojave Desert 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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	40.00	0.00	0.00	100.00	100	0	0
Unrefrigerated Warehouse-No	14.70	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.165262	0.045632	0.183539	0.605567	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.600758	0.062281	0.191226	0.145734	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
NaturalGas Unmitigated	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	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	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53541.3	0.5774	5.2491	4.4093	0.0315		0.3989	0.3989		0.3989	0.3989		6,298.9716	6,298.9716	0.1207	0.1155	6,336.4032
Unrefrigerated Warehouse-No Rail	11788.7	0.1271	1.1558	0.9708	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,386.9032	1,386.9032	0.0266	0.0254	1,395.1449
Total		0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53.5413	0.5774	5.2491	4.4093	0.0315		0.3989	0.3989		0.3989	0.3989		6,298.9716	6,298.9716	0.1207	0.1155	6,336.4032
Unrefrigerated Warehouse-No Rail	11.7887	0.1271	1.1558	0.9708	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,386.9032	1,386.9032	0.0266	0.0254	1,395.1449
Total		0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

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	lb/day										lb/day					
Mitigated	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Unmitigated	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017

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	3.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.8691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0242	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Total	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017

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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	lb/day										lb/day					
Architectural Coating	3.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.8691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0242	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Total	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	151	24.00	365	89	0.20	Diesel
Other Material Handling Equipment	9	24.00	365	200	0.40	Diesel

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

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	39.3609	370.7980	513.5895	0.6925		19.8500	19.8500		18.2620	18.2620	0.0000	67,057.9662	67,057.9662	21.6879		67,600.1638
Other Material Handling Equipment	7.6083	67.5638	45.6113	0.1856		2.2854	2.2854		2.1025	2.1025	0.0000	17,961.5215	17,961.5215	5.8091		18,106.7495
Total	46.9692	438.3618	559.2008	0.8781		22.1354	22.1354		20.3646	20.3646	0.0000	85,019.4877	85,019.4877	27.4970		85,706.9133

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	1	50	500	1	Diesel

Boilers

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

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

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	3.3721	9.4248	8.5980	0.0162		0.4960	0.4960		0.4960	0.4960		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	3.3721	9.4248	8.5980	0.0162		0.4960	0.4960		0.4960	0.4960		1,725.0290	1,725.0290	0.2419		1,731.0753

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	377.78	1000sqft	19.61	377,780.00	0
Unrefrigerated Warehouse-No Rail	2,140.73	1000sqft	61.84	2,140,730.00	0
Other Asphalt Surfaces	0.65	Acre	0.65	28,314.00	0
Other Non-Asphalt Surfaces	45.68	Acre	45.68	1,989,820.80	0
Other Non-Asphalt Surfaces	16.73	Acre	16.73	728,758.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Apple Valley 143 Project

Land Use - On-Site Land uses: High Cube Cold Storage (Refrigerated Warehouse), High Cube Non-Cold Storage (Unrefrigerated Warehouse), and Parking Lots/Driveways. Off-site 0.65 acres of asphalt surfaces for repave

Construction Phase - Adjusted schedule based on applicant input and representative water pipeline project experience

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input - Laser Screeds (x2) modeled as "Other Construction Equipment" and Concrete Finishing Machines (x2) modeled as "Surfacing Equipment"

Off-road Equipment - Adjusted based on applicant input

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

Off-road Equipment -

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Trips and VMT - Trips adjusted per applicant input, with 2 water trucks added during site prep and grading. Offsite water pipeline construction vehicles based on a representative water pipeline project, scaled to the length of the proposed pipeline

Grading - Default onsite acres. Offsite grading for pipeline input as 0.65 acres. Total of 150,000 CY assumed export during onsite mass/fine grading and 2,288 CY assumed export during offsite grading

Architectural Coating - Adjusted VOC content per MDAQMD Rule 1113. Adjusted restriping for offsite repavement to anticipated asphalt area.

Vehicle Trips - Trip generation based on traffic report, with Refrigerated Warehouse used to estimate trucks and Unrefrigerated Warehouse used to estimate employee trips. Truck triplength of 40 miles and worker triplength of 14.7 miles assumed

Area Coating - Adjusted VOC content based on MDAQMD Rule 1113

Water And Wastewater - Adjusted water demand based on Water Supply Assessment

Construction Off-road Equipment Mitigation - MDAQMD Rule 403: compliance assumed with watering site 2x per day and limiting vehicle speed to 15 mph on unpaved areas

Operational Off-Road Equipment - Forklifts and yard trucks based on the SCAQMD High-Cube Business Survey. Assumed 50% Diesel/50% electric forklifts and 100% diesel yard trucks. GHGs from electric forklifts were estimated outside of CalEEMod.

Fleet Mix - Adjusted fleetmix to match traffic report with Refrigerated Warehouse used to model trucks and Unrefrigerated Warehouse used to model workers

Stationary Sources - Emergency Generators and Fire Pumps - 1x 500hp diesel emergency generator assumed per building. Routine testing of 1 hour per day, 50 hours per year

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	104,980.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	47,500.00

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tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	170.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	5.00
tblConstructionPhase	NumDays	3,100.00	199.00
tblConstructionPhase	NumDays	310.00	30.00
tblConstructionPhase	NumDays	310.00	95.00
tblConstructionPhase	NumDays	310.00	15.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	165.00
tblConstructionPhase	NumDays	120.00	15.00
tblFleetMix	HHD	0.02	0.61
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.60
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.0090e-003	0.05

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tblFleetMix	LHD2	7.0090e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.15
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MHD	0.01	0.18
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblGrading	AcresOfGrading	0.00	0.65
tblGrading	MaterialExported	0.00	112,504.00
tblGrading	MaterialExported	0.00	2,288.00
tblGrading	MaterialExported	0.00	37,496.00
tblLandUse	LotAcreage	8.67	19.61
tblLandUse	LotAcreage	49.14	61.84
tblOffRoadEquipment	HorsePower	172.00	65.00
tblOffRoadEquipment	HorsePower	263.00	107.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	168.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	151.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	9.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	24.00
tblTripsAndVMT	HaulingTripNumber	14,063.00	16,072.00
tblTripsAndVMT	HaulingTripNumber	4,687.00	5,356.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	400.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

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tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	863.00	884.00
tbITripsAndVMT	VendorTripNumber	0.00	8.00
tbITripsAndVMT	WorkerTripNumber	5.00	20.00
tbITripsAndVMT	WorkerTripNumber	25.00	30.00
tbITripsAndVMT	WorkerTripNumber	10.00	16.00
tbITripsAndVMT	WorkerTripNumber	442.00	4.00
tbITripsAndVMT	WorkerTripNumber	2,211.00	750.00
tbITripsAndVMT	WorkerTripNumber	442.00	230.00
tbITripsAndVMT	WorkerTripNumber	442.00	6.00
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CNW_TL	6.60	40.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.12	3.90
tblVehicleTrips	ST_TR	1.74	1.58

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tblVehicleTrips	SU_TR	2.12	3.90
tblVehicleTrips	SU_TR	1.74	1.58
tblVehicleTrips	WD_TR	2.12	3.90
tblVehicleTrips	WD_TR	1.74	1.58
tblWater	IndoorWaterUseRate	87,361,625.00	1,611,908.59
tblWater	IndoorWaterUseRate	495,043,812.50	9,134,049.12

2.0 Emissions Summary

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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					
2023	0.2435	2.7853	2.2927	9.9900e-003	0.4860	0.0786	0.5646	0.1432	0.0737	0.2169	0.0000	944.6208	944.6208	0.0944	0.0963	975.6709
2024	7.0004	8.1177	9.7927	0.0340	1.6232	0.2277	1.8509	0.4529	0.2148	0.6678	0.0000	3,170.9809	3,170.9809	0.2491	0.2653	3,256.2544
Maximum	7.0004	8.1177	9.7927	0.0340	1.6232	0.2277	1.8509	0.4529	0.2148	0.6678	0.0000	3,170.9809	3,170.9809	0.2491	0.2653	3,256.2544

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					
2023	0.2435	2.7853	2.2927	9.9900e-003	0.3858	0.0786	0.4643	0.1102	0.0737	0.1839	0.0000	944.6204	944.6204	0.0944	0.0963	975.6706
2024	7.0004	8.1177	9.7927	0.0340	1.5835	0.2277	1.8112	0.4376	0.2148	0.6525	0.0000	3,170.9799	3,170.9799	0.2491	0.2653	3,256.2535
Maximum	7.0004	8.1177	9.7927	0.0340	1.5835	0.2277	1.8112	0.4376	0.2148	0.6525	0.0000	3,170.9799	3,170.9799	0.2491	0.2653	3,256.2535

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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
Percent Reduction	0.00	0.00	0.00	0.00	6.63	0.00	5.79	8.10	0.00	5.46	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	10-1-2023	12-31-2023	3.0849	3.0849
2	1-1-2024	3-31-2024	2.9156	2.9156
3	4-1-2024	6-30-2024	3.8704	3.8704
4	7-1-2024	9-30-2024	7.5694	7.5694
		Highest	7.5694	7.5694

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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	10.6376	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491
Energy	0.1286	1.1689	0.9819	7.0100e-003		0.0888	0.0888		0.0888	0.0888	0.0000	4,822.4527	4,822.4527	0.3240	0.0597	4,848.3281
Mobile	1.7743	45.5110	27.7167	0.2933	16.1285	0.4791	16.6075	4.4328	0.4572	4.8900	0.0000	28,308.2466	28,308.2466	0.8441	3.4796	29,366.2685
Offroad	8.5719	80.0009	102.0540	0.1603		4.0397	4.0397		3.7165	3.7165	0.0000	14,075.9130	14,075.9130	4.5524	0.0000	14,189.7238
Stationary	0.0843	0.2356	0.2150	4.1000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	39.1230	39.1230	5.4900e-003	0.0000	39.2601
Waste						0.0000	0.0000		0.0000	0.0000	480.5608	0.0000	480.5608	28.4003	0.0000	1,190.5691
Water						0.0000	0.0000		0.0000	0.0000	3.4092	24.8147	28.2239	0.3523	8.5200e-003	39.5697
Total	21.1967	126.9166	130.9912	0.4610	16.1285	4.6201	20.7485	4.4328	4.2750	8.7078	483.9700	47,270.5961	47,754.5661	34.4787	3.5478	49,673.7685

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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	10.6376	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491
Energy	0.1286	1.1689	0.9819	7.0100e-003		0.0888	0.0888		0.0888	0.0888	0.0000	4,822.4527	4,822.4527	0.3240	0.0597	4,848.3281
Mobile	1.7743	45.5110	27.7167	0.2933	16.1285	0.4791	16.6075	4.4328	0.4572	4.8900	0.0000	28,308.2466	28,308.2466	0.8441	3.4796	29,366.2685
Offroad	8.5719	80.0009	102.0540	0.1603		4.0397	4.0397		3.7165	3.7165	0.0000	14,075.9130	14,075.9130	4.5524	0.0000	14,189.7238
Stationary	0.0843	0.2356	0.2150	4.1000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	39.1230	39.1230	5.4900e-003	0.0000	39.2601
Waste						0.0000	0.0000		0.0000	0.0000	480.5608	0.0000	480.5608	28.4003	0.0000	1,190.5691
Water						0.0000	0.0000		0.0000	0.0000	3.4092	24.8147	28.2239	0.3523	8.5200e-003	39.5697
Total	21.1967	126.9166	130.9912	0.4610	16.1285	4.6201	20.7485	4.4328	4.2750	8.7078	483.9700	47,270.5961	47,754.5661	34.4787	3.5478	49,673.7685

	ROG	NOx	CO	SO2	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation - Onsite	Site Preparation	10/1/2023	10/20/2023	5	15	
2	Mass Grading - Onsite	Grading	10/21/2023	12/1/2023	5	30	
3	Road Removal/ Pipeline Install - Offsite	Grading	11/1/2023	3/12/2024	5	95	
4	Pipeline Paving - Offsite	Paving	11/1/2023	6/18/2024	5	165	
5	Restriping - Offsite	Architectural Coating	11/1/2023	6/25/2024	5	170	
6	Building Construction - Onsite	Building Construction	12/2/2023	9/5/2024	5	199	
7	Architectural Coating - Onsite	Architectural Coating	6/14/2024	9/5/2024	5	60	
8	Testing - Offsite	Architectural Coating	6/26/2024	7/2/2024	5	5	
9	Fine Grading - Onsite	Grading	8/16/2024	9/5/2024	5	15	
10	Concrete Laydown - Onsite	Paving	9/6/2024	11/28/2024	5	60	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 150

Acres of Paving: 63.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 47,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation - Onsite	Crawler Tractors	1	8.00	212	0.43
Site Preparation - Onsite	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation - Onsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Mass Grading - Onsite	Excavators	2	8.00	158	0.38
Mass Grading - Onsite	Graders	1	8.00	187	0.41
Mass Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Mass Grading - Onsite	Scrapers	4	8.00	367	0.48
Mass Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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Road Removal/ Pipeline Install - Offsite	Concrete/Industrial Saws	1	8.00	81	0.73
Road Removal/ Pipeline Install - Offsite	Excavators	1	8.00	158	0.38
Road Removal/ Pipeline Install - Offsite	Graders	0	8.00	187	0.41
Road Removal/ Pipeline Install - Offsite	Pumps	1	8.00	84	0.74
Road Removal/ Pipeline Install - Offsite	Rubber Tired Dozers	0	8.00	247	0.40
Road Removal/ Pipeline Install - Offsite	Scrapers	0	8.00	367	0.48
Road Removal/ Pipeline Install - Offsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipeline Paving - Offsite	Pavers	1	8.00	130	0.42
Pipeline Paving - Offsite	Paving Equipment	1	8.00	132	0.36
Pipeline Paving - Offsite	Rollers	1	8.00	80	0.38
Restriping - Offsite	Air Compressors	1	8.00	78	0.48
Building Construction - Onsite	Aerial Lifts	3	7.00	63	0.31
Building Construction - Onsite	Cranes	1	7.00	231	0.29
Building Construction - Onsite	Forklifts	7	8.00	89	0.20
Building Construction - Onsite	Generator Sets	3	8.00	84	0.74
Building Construction - Onsite	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction - Onsite	Welders	2	8.00	46	0.45
Architectural Coating - Onsite	Aerial Lifts	3	6.00	63	0.31
Architectural Coating - Onsite	Air Compressors	3	6.00	78	0.48
Testing - Offsite	Air Compressors	0	6.00	78	0.48
Testing - Offsite	Generator Sets	1	8.00	84	0.74
Fine Grading - Onsite	Excavators	2	8.00	158	0.38
Fine Grading - Onsite	Graders	1	8.00	187	0.41
Fine Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading - Onsite	Scrapers	2	8.00	367	0.48
Fine Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Concrete Laydown - Onsite	Other Construction Equipment	2	8.00	65	0.42
Concrete Laydown - Onsite	Pavers	0	8.00	130	0.42
Concrete Laydown - Onsite	Paving Equipment	0	8.00	132	0.36

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Concrete Laydown - Onsite	Rollers	0	8.00	80	0.38
Concrete Laydown - Onsite	Surfacing Equipment	6	8.00	107	0.30

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation - Onsite	2	20.00	4.00	24.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Mass Grading - Onsite	10	30.00	8.00	16,072.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Road Removal/ Pipeline Install - Offsite	4	16.00	2.00	286.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Paving - Offsite	3	8.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restriping - Offsite	1	4.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Onsite	25	750.00	884.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Onsite	6	230.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Testing - Offsite	1	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading - Onsite	8	20.00	8.00	5,356.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Concrete Laydown - Onsite	8	20.00	400.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Site Preparation - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9800e-003	0.0000	3.9800e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4700e-003	0.0500	0.0336	8.0000e-005		2.0600e-003	2.0600e-003		1.8900e-003	1.8900e-003	0.0000	7.2111	7.2111	2.3300e-003	0.0000	7.2694
Total	4.4700e-003	0.0500	0.0336	8.0000e-005	3.9800e-003	2.0600e-003	6.0400e-003	4.3000e-004	1.8900e-003	2.3200e-003	0.0000	7.2111	7.2111	2.3300e-003	0.0000	7.2694

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.4000e-003	4.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.2000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6669	0.6669	3.0000e-005	1.1000e-004	0.6991
Vendor	3.0000e-005	1.0800e-003	4.4000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5024	0.5024	1.0000e-005	7.0000e-005	0.5248
Worker	5.7000e-004	4.3000e-004	5.4500e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4461	1.4461	4.0000e-005	4.0000e-005	1.4585
Total	6.3000e-004	2.9100e-003	6.2900e-003	4.0000e-005	2.2700e-003	3.0000e-005	2.3000e-003	6.1000e-004	3.0000e-005	6.4000e-004	0.0000	2.6154	2.6154	8.0000e-005	2.2000e-004	2.6824

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3.2 Site Preparation - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7900e-003	0.0000	1.7900e-003	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4700e-003	0.0500	0.0336	8.0000e-005		2.0600e-003	2.0600e-003		1.8900e-003	1.8900e-003	0.0000	7.2111	7.2111	2.3300e-003	0.0000	7.2694
Total	4.4700e-003	0.0500	0.0336	8.0000e-005	1.7900e-003	2.0600e-003	3.8500e-003	1.9000e-004	1.8900e-003	2.0800e-003	0.0000	7.2111	7.2111	2.3300e-003	0.0000	7.2694

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.4000e-003	4.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.2000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6669	0.6669	3.0000e-005	1.1000e-004	0.6991
Vendor	3.0000e-005	1.0800e-003	4.4000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5024	0.5024	1.0000e-005	7.0000e-005	0.5248
Worker	5.7000e-004	4.3000e-004	5.4500e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4461	1.4461	4.0000e-005	4.0000e-005	1.4585
Total	6.3000e-004	2.9100e-003	6.2900e-003	4.0000e-005	2.2700e-003	3.0000e-005	2.3000e-003	6.1000e-004	3.0000e-005	6.4000e-004	0.0000	2.6154	2.6154	8.0000e-005	2.2000e-004	2.6824

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3.3 Mass Grading - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1778	0.0000	0.1778	0.0594	0.0000	0.0594	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0734	0.7662	0.6049	1.3900e-003		0.0311	0.0311		0.0286	0.0286	0.0000	121.8132	121.8132	0.0394	0.0000	122.7981
Total	0.0734	0.7662	0.6049	1.3900e-003	0.1778	0.0311	0.2089	0.0594	0.0286	0.0881	0.0000	121.8132	121.8132	0.0394	0.0000	122.7981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0188	0.9346	0.2712	4.5200e-003	0.1384	9.3000e-003	0.1477	0.0380	8.9000e-003	0.0469	0.0000	446.5644	446.5644	0.0190	0.0708	468.1332
Vendor	1.3000e-004	4.3000e-003	1.7700e-003	2.0000e-005	7.2000e-004	3.0000e-005	7.5000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	2.0095	2.0095	5.0000e-005	3.0000e-004	2.0993
Worker	1.7100e-003	1.3000e-003	0.0164	5.0000e-005	5.6400e-003	3.0000e-005	5.6700e-003	1.5000e-003	3.0000e-005	1.5200e-003	0.0000	4.3384	4.3384	1.1000e-004	1.2000e-004	4.3756
Total	0.0206	0.9402	0.2893	4.5900e-003	0.1448	9.3600e-003	0.1541	0.0397	8.9600e-003	0.0487	0.0000	452.9122	452.9122	0.0192	0.0712	474.6081

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3.3 Mass Grading - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0800	0.0000	0.0800	0.0268	0.0000	0.0268	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0734	0.7662	0.6049	1.3900e-003		0.0311	0.0311		0.0286	0.0286	0.0000	121.8130	121.8130	0.0394	0.0000	122.7979
Total	0.0734	0.7662	0.6049	1.3900e-003	0.0800	0.0311	0.1111	0.0268	0.0286	0.0554	0.0000	121.8130	121.8130	0.0394	0.0000	122.7979

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0188	0.9346	0.2712	4.5200e-003	0.1384	9.3000e-003	0.1477	0.0380	8.9000e-003	0.0469	0.0000	446.5644	446.5644	0.0190	0.0708	468.1332
Vendor	1.3000e-004	4.3000e-003	1.7700e-003	2.0000e-005	7.2000e-004	3.0000e-005	7.5000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	2.0095	2.0095	5.0000e-005	3.0000e-004	2.0993
Worker	1.7100e-003	1.3000e-003	0.0164	5.0000e-005	5.6400e-003	3.0000e-005	5.6700e-003	1.5000e-003	3.0000e-005	1.5200e-003	0.0000	4.3384	4.3384	1.1000e-004	1.2000e-004	4.3756
Total	0.0206	0.9402	0.2893	4.5900e-003	0.1448	9.3600e-003	0.1541	0.0397	8.9600e-003	0.0487	0.0000	452.9122	452.9122	0.0192	0.0712	474.6081

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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 Road Removal/ Pipeline Install - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.1000e-004	0.0000	5.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0215	0.1811	0.2767	4.5000e-004		8.9200e-003	8.9200e-003		8.6600e-003	8.6600e-003	0.0000	39.3480	39.3480	6.1800e-003	0.0000	39.5025
Total	0.0215	0.1811	0.2767	4.5000e-004	5.1000e-004	8.9200e-003	9.4300e-003	6.0000e-005	8.6600e-003	8.7200e-003	0.0000	39.3480	39.3480	6.1800e-003	0.0000	39.5025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5000e-004	7.5300e-003	2.1800e-003	4.0000e-005	1.1100e-003	7.0000e-005	1.1900e-003	3.1000e-004	7.0000e-005	3.8000e-004	0.0000	3.5969	3.5969	1.5000e-004	5.7000e-004	3.7706
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	1.3000e-003	1.0000e-003	0.0125	4.0000e-005	4.3100e-003	2.0000e-005	4.3300e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3165	3.3165	8.0000e-005	9.0000e-005	3.3449
Total	1.5000e-003	0.0101	0.0153	9.0000e-005	5.6800e-003	1.0000e-004	5.7900e-003	1.5200e-003	1.0000e-004	1.6300e-003	0.0000	7.6334	7.6334	2.5000e-004	7.7000e-004	7.8678

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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 Road Removal/ Pipeline Install - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3000e-004	0.0000	2.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0215	0.1811	0.2767	4.5000e-004		8.9200e-003	8.9200e-003		8.6600e-003	8.6600e-003	0.0000	39.3479	39.3479	6.1800e-003	0.0000	39.5025
Total	0.0215	0.1811	0.2767	4.5000e-004	2.3000e-004	8.9200e-003	9.1500e-003	3.0000e-005	8.6600e-003	8.6900e-003	0.0000	39.3479	39.3479	6.1800e-003	0.0000	39.5025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5000e-004	7.5300e-003	2.1800e-003	4.0000e-005	1.1100e-003	7.0000e-005	1.1900e-003	3.1000e-004	7.0000e-005	3.8000e-004	0.0000	3.5969	3.5969	1.5000e-004	5.7000e-004	3.7706
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	1.3000e-003	1.0000e-003	0.0125	4.0000e-005	4.3100e-003	2.0000e-005	4.3300e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3165	3.3165	8.0000e-005	9.0000e-005	3.3449
Total	1.5000e-003	0.0101	0.0153	9.0000e-005	5.6800e-003	1.0000e-004	5.7900e-003	1.5200e-003	1.0000e-004	1.6300e-003	0.0000	7.6334	7.6334	2.5000e-004	7.7000e-004	7.8678

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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 Road Removal/ Pipeline Install - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.1000e-004	0.0000	5.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0245	0.2039	0.3346	5.5000e-004		9.4500e-003	9.4500e-003		9.1700e-003	9.1700e-003	0.0000	47.5918	47.5918	7.4300e-003	0.0000	47.7776
Total	0.0245	0.2039	0.3346	5.5000e-004	5.1000e-004	9.4500e-003	9.9600e-003	6.0000e-005	9.1700e-003	9.2300e-003	0.0000	47.5918	47.5918	7.4300e-003	0.0000	47.7776

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8000e-004	9.1300e-003	2.6500e-003	4.0000e-005	1.3500e-003	9.0000e-005	1.4400e-003	3.7000e-004	9.0000e-005	4.6000e-004	0.0000	4.2742	4.2742	1.8000e-004	6.8000e-004	4.4806
Vendor	6.0000e-005	1.8800e-003	7.6000e-004	1.0000e-005	3.1000e-004	1.0000e-005	3.3000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8588	0.8588	2.0000e-005	1.3000e-004	0.8972
Worker	1.4700e-003	1.0700e-003	0.0141	4.0000e-005	5.2100e-003	2.0000e-005	5.2400e-003	1.3800e-003	2.0000e-005	1.4100e-003	0.0000	3.8943	3.8943	9.0000e-005	1.0000e-004	3.9261
Total	1.7100e-003	0.0121	0.0175	9.0000e-005	6.8700e-003	1.2000e-004	7.0100e-003	1.8400e-003	1.2000e-004	1.9700e-003	0.0000	9.0272	9.0272	2.9000e-004	9.1000e-004	9.3038

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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 Road Removal/ Pipeline Install - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3000e-004	0.0000	2.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0245	0.2039	0.3346	5.5000e-004		9.4500e-003	9.4500e-003		9.1700e-003	9.1700e-003	0.0000	47.5918	47.5918	7.4300e-003	0.0000	47.7775
Total	0.0245	0.2039	0.3346	5.5000e-004	2.3000e-004	9.4500e-003	9.6800e-003	3.0000e-005	9.1700e-003	9.2000e-003	0.0000	47.5918	47.5918	7.4300e-003	0.0000	47.7775

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8000e-004	9.1300e-003	2.6500e-003	4.0000e-005	1.3500e-003	9.0000e-005	1.4400e-003	3.7000e-004	9.0000e-005	4.6000e-004	0.0000	4.2742	4.2742	1.8000e-004	6.8000e-004	4.4806
Vendor	6.0000e-005	1.8800e-003	7.6000e-004	1.0000e-005	3.1000e-004	1.0000e-005	3.3000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8588	0.8588	2.0000e-005	1.3000e-004	0.8972
Worker	1.4700e-003	1.0700e-003	0.0141	4.0000e-005	5.2100e-003	2.0000e-005	5.2400e-003	1.3800e-003	2.0000e-005	1.4100e-003	0.0000	3.8943	3.8943	9.0000e-005	1.0000e-004	3.9261
Total	1.7100e-003	0.0121	0.0175	9.0000e-005	6.8700e-003	1.2000e-004	7.0100e-003	1.8400e-003	1.2000e-004	1.9700e-003	0.0000	9.0272	9.0272	2.9000e-004	9.1000e-004	9.3038

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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 Pipeline Paving - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0111	0.1096	0.1568	2.5000e-004		5.4800e-003	5.4800e-003		5.0500e-003	5.0500e-003	0.0000	21.5289	21.5289	6.9600e-003	0.0000	21.7030
Paving	2.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0113	0.1096	0.1568	2.5000e-004		5.4800e-003	5.4800e-003		5.0500e-003	5.0500e-003	0.0000	21.5289	21.5289	6.9600e-003	0.0000	21.7030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	6.5000e-004	5.0000e-004	6.2500e-003	2.0000e-005	2.1600e-003	1.0000e-005	2.1700e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6582	1.6582	4.0000e-005	4.0000e-005	1.6725
Total	7.0000e-004	2.0400e-003	6.8800e-003	3.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.7000e-004	0.0000	2.3783	2.3783	6.0000e-005	1.5000e-004	2.4247

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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 Pipeline Paving - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0111	0.1096	0.1568	2.5000e-004		5.4800e-003	5.4800e-003		5.0500e-003	5.0500e-003	0.0000	21.5289	21.5289	6.9600e-003	0.0000	21.7029
Paving	2.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0113	0.1096	0.1568	2.5000e-004		5.4800e-003	5.4800e-003		5.0500e-003	5.0500e-003	0.0000	21.5289	21.5289	6.9600e-003	0.0000	21.7029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	6.5000e-004	5.0000e-004	6.2500e-003	2.0000e-005	2.1600e-003	1.0000e-005	2.1700e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6582	1.6582	4.0000e-005	4.0000e-005	1.6725
Total	7.0000e-004	2.0400e-003	6.8800e-003	3.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.7000e-004	0.0000	2.3783	2.3783	6.0000e-005	1.5000e-004	2.4247

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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 Pipeline Paving - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0301	0.2905	0.4461	7.0000e-004		0.0143	0.0143		0.0132	0.0132	0.0000	61.0809	61.0809	0.0198	0.0000	61.5748
Paving	6.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0308	0.2905	0.4461	7.0000e-004		0.0143	0.0143		0.0132	0.0132	0.0000	61.0809	61.0809	0.0198	0.0000	61.5748

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3000e-004	4.4100e-003	1.7700e-003	2.0000e-005	7.4000e-004	3.0000e-005	7.7000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	2.0148	2.0148	5.0000e-005	3.0000e-004	2.1049
Worker	1.7200e-003	1.2500e-003	0.0165	5.0000e-005	6.1100e-003	3.0000e-005	6.1400e-003	1.6200e-003	3.0000e-005	1.6500e-003	0.0000	4.5683	4.5683	1.1000e-004	1.2000e-004	4.6056
Total	1.8500e-003	5.6600e-003	0.0183	7.0000e-005	6.8500e-003	6.0000e-005	6.9100e-003	1.8300e-003	6.0000e-005	1.8900e-003	0.0000	6.5831	6.5831	1.6000e-004	4.2000e-004	6.7104

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3.5 Pipeline Paving - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0301	0.2905	0.4461	7.0000e-004		0.0143	0.0143		0.0132	0.0132	0.0000	61.0809	61.0809	0.0198	0.0000	61.5747
Paving	6.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0308	0.2905	0.4461	7.0000e-004		0.0143	0.0143		0.0132	0.0132	0.0000	61.0809	61.0809	0.0198	0.0000	61.5747

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3000e-004	4.4100e-003	1.7700e-003	2.0000e-005	7.4000e-004	3.0000e-005	7.7000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	2.0148	2.0148	5.0000e-005	3.0000e-004	2.1049
Worker	1.7200e-003	1.2500e-003	0.0165	5.0000e-005	6.1100e-003	3.0000e-005	6.1400e-003	1.6200e-003	3.0000e-005	1.6500e-003	0.0000	4.5683	4.5683	1.1000e-004	1.2000e-004	4.6056
Total	1.8500e-003	5.6600e-003	0.0183	7.0000e-005	6.8500e-003	6.0000e-005	6.9100e-003	1.8300e-003	6.0000e-005	1.8900e-003	0.0000	6.5831	6.5831	1.6000e-004	4.2000e-004	6.7104

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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 Restriping - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0278					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4900e-003	0.0374	0.0519	9.0000e-005		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	7.3193	7.3193	4.4000e-004	0.0000	7.3303
Total	0.0333	0.0374	0.0519	9.0000e-005		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	7.3193	7.3193	4.4000e-004	0.0000	7.3303

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	3.3000e-004	2.5000e-004	3.1200e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0800e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.8291	0.8291	2.0000e-005	2.0000e-005	0.8362
Total	3.8000e-004	1.7900e-003	3.7500e-003	2.0000e-005	1.3400e-003	2.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.8000e-004	0.0000	1.5492	1.5492	4.0000e-005	1.3000e-004	1.5885

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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 Restriping - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0278					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4900e-003	0.0374	0.0519	9.0000e-005		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	7.3193	7.3193	4.4000e-004	0.0000	7.3303
Total	0.0333	0.0374	0.0519	9.0000e-005		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	7.3193	7.3193	4.4000e-004	0.0000	7.3303

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	3.3000e-004	2.5000e-004	3.1200e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0800e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.8291	0.8291	2.0000e-005	2.0000e-005	0.8362
Total	3.8000e-004	1.7900e-003	3.7500e-003	2.0000e-005	1.3400e-003	2.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.8000e-004	0.0000	1.5492	1.5492	4.0000e-005	1.3000e-004	1.5885

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3.6 Restriping - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0822					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1032	0.1533	2.5000e-004		5.1600e-003	5.1600e-003		5.1600e-003	5.1600e-003	0.0000	21.6176	21.6176	1.2200e-003	0.0000	21.6480
Total	0.0975	0.1032	0.1533	2.5000e-004		5.1600e-003	5.1600e-003		5.1600e-003	5.1600e-003	0.0000	21.6176	21.6176	1.2200e-003	0.0000	21.6480

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	4.5900e-003	1.8400e-003	2.0000e-005	7.7000e-004	3.0000e-005	8.0000e-004	2.2000e-004	3.0000e-005	2.5000e-004	0.0000	2.0974	2.0974	5.0000e-005	3.1000e-004	2.1911
Worker	9.0000e-004	6.5000e-004	8.5800e-003	3.0000e-005	3.1800e-003	2.0000e-005	3.2000e-003	8.5000e-004	1.0000e-005	8.6000e-004	0.0000	2.3777	2.3777	6.0000e-005	6.0000e-005	2.3972
Total	1.0400e-003	5.2400e-003	0.0104	5.0000e-005	3.9500e-003	5.0000e-005	4.0000e-003	1.0700e-003	4.0000e-005	1.1100e-003	0.0000	4.4751	4.4751	1.1000e-004	3.7000e-004	4.5883

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3.6 Restriping - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0822					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1032	0.1533	2.5000e-004		5.1600e-003	5.1600e-003		5.1600e-003	5.1600e-003	0.0000	21.6175	21.6175	1.2200e-003	0.0000	21.6480
Total	0.0975	0.1032	0.1533	2.5000e-004		5.1600e-003	5.1600e-003		5.1600e-003	5.1600e-003	0.0000	21.6175	21.6175	1.2200e-003	0.0000	21.6480

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	4.5900e-003	1.8400e-003	2.0000e-005	7.7000e-004	3.0000e-005	8.0000e-004	2.2000e-004	3.0000e-005	2.5000e-004	0.0000	2.0974	2.0974	5.0000e-005	3.1000e-004	2.1911
Worker	9.0000e-004	6.5000e-004	8.5800e-003	3.0000e-005	3.1800e-003	2.0000e-005	3.2000e-003	8.5000e-004	1.0000e-005	8.6000e-004	0.0000	2.3777	2.3777	6.0000e-005	6.0000e-005	2.3972
Total	1.0400e-003	5.2400e-003	0.0104	5.0000e-005	3.9500e-003	5.0000e-005	4.0000e-003	1.0700e-003	4.0000e-005	1.1100e-003	0.0000	4.4751	4.4751	1.1000e-004	3.7000e-004	4.5883

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3.7 Building Construction - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0374	0.3454	0.4442	7.0000e-004		0.0167	0.0167		0.0158	0.0158	0.0000	59.9743	59.9743	0.0139	0.0000	60.3206
Total	0.0374	0.3454	0.4442	7.0000e-004		0.0167	0.0167		0.0158	0.0158	0.0000	59.9743	59.9743	0.0139	0.0000	60.3206

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.8200e-003	0.3170	0.1305	1.5200e-003	0.0533	2.2400e-003	0.0556	0.0154	2.1400e-003	0.0175	0.0000	148.0311	148.0311	3.8500e-003	0.0219	154.6488
Worker	0.0284	0.0217	0.2725	7.9000e-004	0.0940	4.7000e-004	0.0944	0.0250	4.3000e-004	0.0254	0.0000	72.3065	72.3065	1.8000e-003	1.9300e-003	72.9268
Total	0.0383	0.3387	0.4031	2.3100e-003	0.1473	2.7100e-003	0.1500	0.0404	2.5700e-003	0.0429	0.0000	220.3376	220.3376	5.6500e-003	0.0238	227.5756

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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 Building Construction - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0374	0.3454	0.4442	7.0000e-004		0.0167	0.0167		0.0158	0.0158	0.0000	59.9742	59.9742	0.0139	0.0000	60.3205
Total	0.0374	0.3454	0.4442	7.0000e-004		0.0167	0.0167		0.0158	0.0158	0.0000	59.9742	59.9742	0.0139	0.0000	60.3205

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.8200e-003	0.3170	0.1305	1.5200e-003	0.0533	2.2400e-003	0.0556	0.0154	2.1400e-003	0.0175	0.0000	148.0311	148.0311	3.8500e-003	0.0219	154.6488
Worker	0.0284	0.0217	0.2725	7.9000e-004	0.0940	4.7000e-004	0.0944	0.0250	4.3000e-004	0.0254	0.0000	72.3065	72.3065	1.8000e-003	1.9300e-003	72.9268
Total	0.0383	0.3387	0.4031	2.3100e-003	0.1473	2.7100e-003	0.1500	0.0404	2.5700e-003	0.0429	0.0000	220.3376	220.3376	5.6500e-003	0.0238	227.5756

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3.7 Building Construction - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3133	2.9027	3.9667	6.2300e-003		0.1306	0.1306		0.1232	0.1232	0.0000	536.8907	536.8907	0.1232	0.0000	539.9718
Total	0.3133	2.9027	3.9667	6.2300e-003		0.1306	0.1306		0.1232	0.1232	0.0000	536.8907	536.8907	0.1232	0.0000	539.9718

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0859	2.8620	1.1493	0.0134	0.4774	0.0197	0.4971	0.1378	0.0188	0.1566	0.0000	1,306.6265	1,306.6265	0.0335	0.1931	1,365.0133
Worker	0.2366	0.1722	2.2681	6.8500e-003	0.8411	4.0100e-003	0.8451	0.2234	3.6900e-003	0.2271	0.0000	628.3696	628.3696	0.0146	0.0160	633.5011
Total	0.3225	3.0342	3.4174	0.0203	1.3184	0.0237	1.3421	0.3612	0.0225	0.3837	0.0000	1,934.9961	1,934.9961	0.0480	0.2091	1,998.5144

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3.7 Building Construction - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3133	2.9027	3.9667	6.2300e-003		0.1306	0.1306		0.1232	0.1232	0.0000	536.8901	536.8901	0.1232	0.0000	539.9711
Total	0.3133	2.9027	3.9667	6.2300e-003		0.1306	0.1306		0.1232	0.1232	0.0000	536.8901	536.8901	0.1232	0.0000	539.9711

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0859	2.8620	1.1493	0.0134	0.4774	0.0197	0.4971	0.1378	0.0188	0.1566	0.0000	1,306.6265	1,306.6265	0.0335	0.1931	1,365.0133
Worker	0.2366	0.1722	2.2681	6.8500e-003	0.8411	4.0100e-003	0.8451	0.2234	3.6900e-003	0.2271	0.0000	628.3696	628.3696	0.0146	0.0160	633.5011
Total	0.3225	3.0342	3.4174	0.0203	1.3184	0.0237	1.3421	0.3612	0.0225	0.3837	0.0000	1,934.9961	1,934.9961	0.0480	0.2091	1,998.5144

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3.8 Architectural Coating - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.0799					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1452	0.2367	3.8000e-004		6.1000e-003	6.1000e-003		6.0500e-003	6.0500e-003	0.0000	32.9373	32.9373	4.5100e-003	0.0000	33.0502
Total	6.0985	0.1452	0.2367	3.8000e-004		6.1000e-003	6.1000e-003		6.0500e-003	6.0500e-003	0.0000	32.9373	32.9373	4.5100e-003	0.0000	33.0502

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0243	0.0177	0.2332	7.0000e-004	0.0865	4.1000e-004	0.0869	0.0230	3.8000e-004	0.0233	0.0000	64.5922	64.5922	1.5000e-003	1.6400e-003	65.1197
Total	0.0243	0.0177	0.2332	7.0000e-004	0.0865	4.1000e-004	0.0869	0.0230	3.8000e-004	0.0233	0.0000	64.5922	64.5922	1.5000e-003	1.6400e-003	65.1197

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3.8 Architectural Coating - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.0799					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1452	0.2367	3.8000e-004		6.1000e-003	6.1000e-003		6.0500e-003	6.0500e-003	0.0000	32.9373	32.9373	4.5100e-003	0.0000	33.0501
Total	6.0985	0.1452	0.2367	3.8000e-004		6.1000e-003	6.1000e-003		6.0500e-003	6.0500e-003	0.0000	32.9373	32.9373	4.5100e-003	0.0000	33.0501

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0243	0.0177	0.2332	7.0000e-004	0.0865	4.1000e-004	0.0869	0.0230	3.8000e-004	0.0233	0.0000	64.5922	64.5922	1.5000e-003	1.6400e-003	65.1197
Total	0.0243	0.0177	0.2332	7.0000e-004	0.0865	4.1000e-004	0.0869	0.0230	3.8000e-004	0.0233	0.0000	64.5922	64.5922	1.5000e-003	1.6400e-003	65.1197

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3.9 Testing - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	6.3600e-003	9.1600e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	1.4130	1.4130	6.0000e-005	0.0000	1.4145
Total	7.1000e-004	6.3600e-003	9.1600e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	1.4130	1.4130	6.0000e-005	0.0000	1.4145

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	5.1000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1404	0.1404	0.0000	0.0000	0.1416
Total	5.0000e-005	4.0000e-005	5.1000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1404	0.1404	0.0000	0.0000	0.1416

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3.9 Testing - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	6.3600e-003	9.1600e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	1.4130	1.4130	6.0000e-005	0.0000	1.4145
Total	7.1000e-004	6.3600e-003	9.1600e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	1.4130	1.4130	6.0000e-005	0.0000	1.4145

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	5.1000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1404	0.1404	0.0000	0.0000	0.1416
Total	5.0000e-005	4.0000e-005	5.1000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1404	0.1404	0.0000	0.0000	0.1416

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3.10 Fine Grading - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0717	0.0000	0.0717	0.0278	0.0000	0.0278	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0241	0.2428	0.2079	4.7000e-004		0.0100	0.0100		9.2100e-003	9.2100e-003	0.0000	40.8896	40.8896	0.0132	0.0000	41.2203
Total	0.0241	0.2428	0.2079	4.7000e-004	0.0717	0.0100	0.0817	0.0278	9.2100e-003	0.0370	0.0000	40.8896	40.8896	0.0132	0.0000	41.2203

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.1900e-003	0.3125	0.0906	1.4800e-003	0.0461	3.0600e-003	0.0492	0.0127	2.9300e-003	0.0156	0.0000	146.2337	146.2337	6.1500e-003	0.0232	153.2946
Vendor	7.0000e-005	2.1700e-003	8.7000e-004	1.0000e-005	3.6000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.2000e-004	0.0000	0.9909	0.9909	3.0000e-005	1.5000e-004	1.0352
Worker	5.3000e-004	3.8000e-004	5.0700e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4042	1.4042	3.0000e-005	4.0000e-005	1.4156
Total	6.7900e-003	0.3151	0.0965	1.5100e-003	0.0484	3.0800e-003	0.0515	0.0133	2.9500e-003	0.0162	0.0000	148.6288	148.6288	6.2100e-003	0.0234	155.7454

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3.10 Fine Grading - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0323	0.0000	0.0323	0.0125	0.0000	0.0125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0241	0.2428	0.2079	4.7000e-004		0.0100	0.0100		9.2100e-003	9.2100e-003	0.0000	40.8896	40.8896	0.0132	0.0000	41.2202
Total	0.0241	0.2428	0.2079	4.7000e-004	0.0323	0.0100	0.0423	0.0125	9.2100e-003	0.0217	0.0000	40.8896	40.8896	0.0132	0.0000	41.2202

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.1900e-003	0.3125	0.0906	1.4800e-003	0.0461	3.0600e-003	0.0492	0.0127	2.9300e-003	0.0156	0.0000	146.2337	146.2337	6.1500e-003	0.0232	153.2946
Vendor	7.0000e-005	2.1700e-003	8.7000e-004	1.0000e-005	3.6000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.2000e-004	0.0000	0.9909	0.9909	3.0000e-005	1.5000e-004	1.0352
Worker	5.3000e-004	3.8000e-004	5.0700e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4042	1.4042	3.0000e-005	4.0000e-005	1.4156
Total	6.7900e-003	0.3151	0.0965	1.5100e-003	0.0484	3.0800e-003	0.0515	0.0133	2.9500e-003	0.0162	0.0000	148.6288	148.6288	6.2100e-003	0.0234	155.7454

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3.11 Concrete Laydown - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0366	0.3973	0.4500	6.4000e-004		0.0214	0.0214		0.0196	0.0196	0.0000	56.3214	56.3214	0.0182	0.0000	56.7768
Paving	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0375	0.3973	0.4500	6.4000e-004		0.0214	0.0214		0.0196	0.0196	0.0000	56.3214	56.3214	0.0182	0.0000	56.7768

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0130	0.4341	0.1743	2.0400e-003	0.0724	2.9900e-003	0.0754	0.0209	2.8600e-003	0.0238	0.0000	198.1789	198.1789	5.0700e-003	0.0293	207.0346
Worker	2.1200e-003	1.5400e-003	0.0203	6.0000e-005	7.5200e-003	4.0000e-005	7.5500e-003	2.0000e-003	3.0000e-005	2.0300e-003	0.0000	5.6167	5.6167	1.3000e-004	1.4000e-004	5.6626
Total	0.0151	0.4356	0.1946	2.1000e-003	0.0799	3.0300e-003	0.0829	0.0229	2.8900e-003	0.0258	0.0000	203.7956	203.7956	5.2000e-003	0.0294	212.6971

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3.11 Concrete Laydown - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0366	0.3973	0.4500	6.4000e-004		0.0214	0.0214		0.0196	0.0196	0.0000	56.3214	56.3214	0.0182	0.0000	56.7768
Paving	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0375	0.3973	0.4500	6.4000e-004		0.0214	0.0214		0.0196	0.0196	0.0000	56.3214	56.3214	0.0182	0.0000	56.7768

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0130	0.4341	0.1743	2.0400e-003	0.0724	2.9900e-003	0.0754	0.0209	2.8600e-003	0.0238	0.0000	198.1789	198.1789	5.0700e-003	0.0293	207.0346
Worker	2.1200e-003	1.5400e-003	0.0203	6.0000e-005	7.5200e-003	4.0000e-005	7.5500e-003	2.0000e-003	3.0000e-005	2.0300e-003	0.0000	5.6167	5.6167	1.3000e-004	1.4000e-004	5.6626
Total	0.0151	0.4356	0.1946	2.1000e-003	0.0799	3.0300e-003	0.0829	0.0229	2.8900e-003	0.0258	0.0000	203.7956	203.7956	5.2000e-003	0.0294	212.6971

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7743	45.5110	27.7167	0.2933	16.1285	0.4791	16.6075	4.4328	0.4572	4.8900	0.0000	28,308.2466	28,308.2466	0.8441	3.4796	29,366.2685
Unmitigated	1.7743	45.5110	27.7167	0.2933	16.1285	0.4791	16.6075	4.4328	0.4572	4.8900	0.0000	28,308.2466	28,308.2466	0.8441	3.4796	29,366.2685

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	1,473.34	1,473.34	1473.34	21,451,860	21,451,860
Unrefrigerated Warehouse-No Rail	3,382.35	3,382.35	3382.35	18,098,297	18,098,297
Total	4,855.70	4,855.70	4,855.70	39,550,156	39,550,156

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

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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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	40.00	0.00	0.00	100.00	100	0	0
Unrefrigerated Warehouse-No	14.70	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.165262	0.045632	0.183539	0.605567	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.600758	0.062281	0.191226	0.145734	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,549.9699	3,549.9699	0.2996	0.0363	3,568.2836
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,549.9699	3,549.9699	0.2996	0.0363	3,568.2836
NaturalGas Mitigated	0.1286	1.1689	0.9819	7.0100e-003		0.0888	0.0888		0.0888	0.0888	0.0000	1,272.4828	1,272.4828	0.0244	0.0233	1,280.0445
NaturalGas Unmitigated	0.1286	1.1689	0.9819	7.0100e-003		0.0888	0.0888		0.0888	0.0888	0.0000	1,272.4828	1,272.4828	0.0244	0.0233	1,280.0445

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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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.95426e+007	0.1054	0.9580	0.8047	5.7500e-003		0.0728	0.0728		0.0728	0.0728	0.0000	1,042.8654	1,042.8654	0.0200	0.0191	1,049.0626
Unrefrigerated Warehouse-No Rail	4.30287e+006	0.0232	0.2109	0.1772	1.2700e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.6174	229.6174	4.4000e-003	4.2100e-003	230.9819
Total		0.1286	1.1689	0.9819	7.0200e-003		0.0888	0.0888		0.0888	0.0888	0.0000	1,272.4828	1,272.4828	0.0244	0.0233	1,280.0445

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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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.95426e+007	0.1054	0.9580	0.8047	5.7500e-003		0.0728	0.0728		0.0728	0.0728	0.0000	1,042.8654	1,042.8654	0.0200	0.0191	1,049.0626
Unrefrigerated Warehouse-No Rail	4.30287e+006	0.0232	0.2109	0.1772	1.2700e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.6174	229.6174	4.4000e-003	4.2100e-003	230.9819
Total		0.1286	1.1689	0.9819	7.0200e-003		0.0888	0.0888		0.0888	0.0888	0.0000	1,272.4828	1,272.4828	0.0244	0.0233	1,280.0445

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.50508e+007	2,669.1844	0.2253	0.0273	2,682.9543
Unrefrigerated Warehouse-No Rail	4.96649e+006	880.7855	0.0743	9.0100e-003	885.3293
Total		3,549.9699	0.2996	0.0363	3,568.2836

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.50508e+007	2,669.1844	0.2253	0.0273	2,682.9543
Unrefrigerated Warehouse-No Rail	4.96649e+006	880.7855	0.0743	9.0100e-003	885.3293
Total		3,549.9699	0.2996	0.0363	3,568.2836

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	10.6376	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491
Unmitigated	10.6376	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491

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	0.6219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	10.0136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1800e-003	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491
Total	10.6376	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491

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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	0.6219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	10.0136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1800e-003	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491
Total	10.6376	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491

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	28.2239	0.3523	8.5200e-003	39.5697
Unmitigated	28.2239	0.3523	8.5200e-003	39.5697

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.61191 / 0	4.2336	0.0528	1.2800e-003	5.9355
Unrefrigerated Warehouse-No Rail	9.13405 / 0	23.9903	0.2994	7.2400e-003	33.6342
Total		28.2239	0.3523	8.5200e-003	39.5697

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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			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.61191 / 0	4.2336	0.0528	1.2800e-003	5.9355
Unrefrigerated Warehouse-No Rail	9.13405 / 0	23.9903	0.2994	7.2400e-003	33.6342
Total		28.2239	0.3523	8.5200e-003	39.5697

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	480.5608	28.4003	0.0000	1,190.5691
Unmitigated	480.5608	28.4003	0.0000	1,190.5691

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	355.11	72.0841	4.2601	0.0000	178.5854
Unrefrigerated Warehouse-No Rail	2012.29	408.4767	24.1403	0.0000	1,011.9837
Total		480.5608	28.4003	0.0000	1,190.5691

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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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	355.11	72.0841	4.2601	0.0000	178.5854
Unrefrigerated Warehouse-No Rail	2012.29	408.4767	24.1403	0.0000	1,011.9837
Total		480.5608	28.4003	0.0000	1,190.5691

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	151	24.00	365	89	0.20	Diesel
Other Material Handling Equipment	9	24.00	365	200	0.40	Diesel

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

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	7.1834	67.6706	93.7300	0.1264		3.6226	3.6226		3.3328	3.3328	0.0000	11,102.1852	11,102.1852	3.5907	0.0000	11,191.9520
Other Material Handling Equipment	1.3885	12.3304	8.3241	0.0339		0.4171	0.4171		0.3837	0.3837	0.0000	2,973.7278	2,973.7278	0.9618	0.0000	2,997.7719
Total	8.5719	80.0009	102.0540	0.1603		4.0397	4.0397		3.7165	3.7165	0.0000	14,075.9130	14,075.9130	4.5524	0.0000	14,189.7238

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	1	50	500	1	Diesel

Boilers

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

User Defined Equipment

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

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

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0843	0.2356	0.2150	4.1000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	39.1230	39.1230	5.4900e-003	0.0000	39.2601
Total	0.0843	0.2356	0.2150	4.1000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	39.1230	39.1230	5.4900e-003	0.0000	39.2601

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

Apple Valley 143 - Mitigated
San Bernardino-Mojave Desert County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	377.78	1000sqft	19.61	377,780.00	0
Unrefrigerated Warehouse-No Rail	2,140.73	1000sqft	61.84	2,140,730.00	0
Other Asphalt Surfaces	0.65	Acre	0.65	28,314.00	0
Other Non-Asphalt Surfaces	45.68	Acre	45.68	1,989,820.80	0
Other Non-Asphalt Surfaces	16.73	Acre	16.73	728,758.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Apple Valley 143 Project

Land Use - On-Site Land uses: High Cube Cold Storage (Refrigerated Warehouse), High Cube Non-Cold Storage (Unrefrigerated Warehouse), and Parking Lots/Driveways. Off-site 0.65 acres of asphalt surfaces for repave

Construction Phase - Adjusted schedule based on applicant input and representative water pipeline project experience

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input - Laser Screeds (x2) modeled as "Other Construction Equipment" and Concrete Finishing Machines (x2) modeled as "Surfacing Equipment"

Off-road Equipment - Adjusted based on applicant input

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

Off-road Equipment -

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Trips and VMT - Trips adjusted per applicant input, with 2 water trucks added during site prep and grading. Offsite water pipeline construction vehicles based on a representative water pipeline project, scaled to the length of the proposed pipeline

Grading - Default onsite acres. Offsite grading input as 0.65 acres. Total of 150,000 CY assumed export during onsite mass/fine grading and 2,288 CY assumed export during offsite grading

Architectural Coating - Default emission factors. Adjusted restriping for offsite repavement to anticipated asphalt area. Mitigation: 10 g/L assumed for building coatings

Vehicle Trips - Trip generation based on traffic report, with Refrigerated Warehouse used to estimate trucks and Unrefrigerated Warehouse used to estimate employee trips. Truck triplength of 40 miles and worker triplength of 14.7 miles assumed

Area Coating - Adjusted VOC content per MDAQMD Rule 1113.

Water And Wastewater - Adjusted water demand based on Water Supply Assessment

Construction Off-road Equipment Mitigation - MDAQMD Rule 403: compliance assumed with watering site 2x per day and limiting vehicle speed to 15 mph on unpaved areas. Mitigation: Tier 4F assumed for equipment >75hp

Area Mitigation - Mitigation: all electric landscaping equipment

Energy Mitigation - Mitigation: on-site solar generation to meet at least 75% of the project's total operational energy requirements

Operational Off-Road Equipment - Mitigation: 100% offroad equipment for operations (forklifts/yard trucks) will be electric. GHGs from electric forklifts were estimated outside of CalEEMod.

Fleet Mix - Adjusted fleetmix to match traffic report with Refrigerated Warehouse used to model trucks and Unrefrigerated Warehouse used to model workers

Stationary Sources - Emergency Generators and Fire Pumps - 1x 500hp diesel emergency generator assumed per building. Routine testing of 1 hour per day, 50 hours per year

Stationary Sources - Emergency Generators and Fire Pumps EF - Tier 4 Final emergency generators

Water Mitigation - Mitigation: Water Conservation Strategy to reduce indoor and outdoor water by 20%

Waste Mitigation - Mitigation: 75% waste diversion program

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	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

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	104,980.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	47,500.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

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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	15.00
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
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	220.00	170.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	5.00
tblConstructionPhase	NumDays	3,100.00	199.00
tblConstructionPhase	NumDays	310.00	30.00
tblConstructionPhase	NumDays	310.00	95.00
tblConstructionPhase	NumDays	310.00	15.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	165.00
tblConstructionPhase	NumDays	120.00	15.00
tblFleetMix	HHD	0.02	0.61
tblFleetMix	HHD	0.02	0.00

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tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.60
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.0090e-003	0.05
tblFleetMix	LHD2	7.0090e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.15
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MHD	0.01	0.18
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblGrading	AcresOfGrading	0.00	0.65
tblGrading	MaterialExported	0.00	112,504.00
tblGrading	MaterialExported	0.00	2,288.00
tblGrading	MaterialExported	0.00	37,496.00
tblLandUse	LotAcreage	8.67	19.61

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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	49.14	61.84
tblOffRoadEquipment	HorsePower	172.00	65.00
tblOffRoadEquipment	HorsePower	263.00	107.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	NOX_EF	2.85	0.30
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblTripsAndVMT	HaulingTripNumber	0.00	24.00

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

tbITripsAndVMT	HaulingTripNumber	14,063.00	16,072.00
tbITripsAndVMT	HaulingTripNumber	4,687.00	5,356.00
tbITripsAndVMT	VendorTripNumber	0.00	4.00
tbITripsAndVMT	VendorTripNumber	0.00	400.00
tbITripsAndVMT	VendorTripNumber	0.00	8.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	863.00	884.00
tbITripsAndVMT	VendorTripNumber	0.00	8.00
tbITripsAndVMT	WorkerTripNumber	5.00	20.00
tbITripsAndVMT	WorkerTripNumber	25.00	30.00
tbITripsAndVMT	WorkerTripNumber	10.00	16.00
tbITripsAndVMT	WorkerTripNumber	442.00	4.00
tbITripsAndVMT	WorkerTripNumber	2,211.00	750.00
tbITripsAndVMT	WorkerTripNumber	442.00	230.00
tbITripsAndVMT	WorkerTripNumber	442.00	6.00
tbIVehicleTrips	CC_TL	6.60	0.00
tbIVehicleTrips	CC_TL	6.60	0.00
tbIVehicleTrips	CNW_TL	6.60	40.00
tbIVehicleTrips	CNW_TL	6.60	0.00
tbIVehicleTrips	CNW_TTP	41.00	100.00
tbIVehicleTrips	CNW_TTP	41.00	0.00
tbIVehicleTrips	CW_TL	14.70	0.00
tbIVehicleTrips	CW_TTP	59.00	0.00
tbIVehicleTrips	CW_TTP	59.00	100.00
tbIVehicleTrips	DV_TP	5.00	0.00
tbIVehicleTrips	DV_TP	5.00	0.00
tbIVehicleTrips	PB_TP	3.00	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

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.12	3.90
tblVehicleTrips	ST_TR	1.74	1.58
tblVehicleTrips	SU_TR	2.12	3.90
tblVehicleTrips	SU_TR	1.74	1.58
tblVehicleTrips	WD_TR	2.12	3.90
tblVehicleTrips	WD_TR	1.74	1.58
tblWater	IndoorWaterUseRate	87,361,625.00	1,611,908.59
tblWater	IndoorWaterUseRate	495,043,812.50	9,134,049.12

2.0 Emissions Summary

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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					
2023	11.1330	126.2195	112.9944	0.4405	22.1233	3.4687	25.5920	6.7721	3.2428	10.0148	0.0000	46,353.91 64	46,353.91 64	5.0207	5.2811	48,053.21 38
2024	60.1409	142.0648	144.0382	0.6032	34.0480	3.6869	37.7349	10.3832	3.4639	13.8471	0.0000	62,700.57 50	62,700.57 50	5.1875	6.0467	64,632.18 28
Maximum	60.1409	142.0648	144.0382	0.6032	34.0480	3.6869	37.7349	10.3832	3.4639	13.8471	0.0000	62,700.57 50	62,700.57 50	5.1875	6.0467	64,632.18 28

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					
2023	7.3247	66.5737	118.5018	0.4405	15.5991	0.8362	16.4353	4.5919	0.8088	5.4007	0.0000	46,353.91 64	46,353.91 64	5.0207	5.2811	48,053.21 37
2024	54.9833	84.4196	152.2746	0.6032	28.7928	1.0339	29.8267	8.3444	0.9983	9.3427	0.0000	62,700.57 50	62,700.57 50	5.1875	6.0467	64,632.18 27
Maximum	54.9833	84.4196	152.2746	0.6032	28.7928	1.0339	29.8267	8.3444	0.9983	9.3427	0.0000	62,700.57 50	62,700.57 50	5.1875	6.0467	64,632.18 27

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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	12.58	43.72	-5.35	0.00	20.97	73.86	26.95	24.59	73.05	38.21	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Energy	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
Mobile	10.8673	235.8539	165.9252	1.6369	90.1921	2.6346	92.8267	24.7427	2.5142	27.2568		174,027.1834	174,027.1834	5.1077	21.0326	180,422.5774
Stationary	3.3721	0.9921	8.5980	0.0162		0.0496	0.0496		0.0496	0.0496		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	73.2446	243.2533	180.1662	1.6915	90.1921	3.1719	93.3640	24.7427	3.0515	27.7941		183,438.6522	183,438.6522	5.4984	21.1735	189,885.8025

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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

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	58.2868	1.3200e-003	0.1525	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		0.3045	0.3045	6.2000e-004		0.3201
Energy	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
Mobile	10.8673	235.8539	165.9252	1.6369	90.1921	2.6346	92.8267	24.7427	2.5142	27.2568		174,027.1834	174,027.1834	5.1077	21.0326	180,422.5774
Stationary	3.3721	0.9921	8.5980	0.0162		0.0496	0.0496		0.0496	0.0496		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	73.2307	243.2522	180.0558	1.6915	90.1921	3.1714	93.3635	24.7427	3.0510	27.7936		183,438.3917	183,438.3917	5.4975	21.1735	189,885.5209

	ROG	NOx	CO	SO2	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	0.02	0.00	0.06	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	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 - Onsite	Site Preparation	10/1/2023	10/20/2023	5	15	
2	Mass Grading - Onsite	Grading	10/21/2023	12/1/2023	5	30	
3	Road Removal/ Pipeline Install - Offsite	Grading	11/1/2023	3/12/2024	5	95	
4	Pipeline Paving - Offsite	Paving	11/1/2023	6/18/2024	5	165	

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

5	Restriping - Offsite	Architectural Coating	11/1/2023	6/25/2024	5	170
6	Building Construction - Onsite	Building Construction	12/2/2023	9/5/2024	5	199
7	Architectural Coating - Onsite	Architectural Coating	6/14/2024	9/5/2024	5	60
8	Testing - Offsite	Architectural Coating	6/26/2024	7/2/2024	5	5
9	Fine Grading - Onsite	Grading	8/16/2024	9/5/2024	5	15
10	Concrete Laydown - Onsite	Paving	9/6/2024	11/28/2024	5	60

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 150

Acres of Paving: 63.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 47,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation - Onsite	Crawler Tractors	1	8.00	212	0.43
Site Preparation - Onsite	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation - Onsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Mass Grading - Onsite	Excavators	2	8.00	158	0.38
Mass Grading - Onsite	Graders	1	8.00	187	0.41
Mass Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Mass Grading - Onsite	Scrapers	4	8.00	367	0.48
Mass Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Road Removal/ Pipeline Install - Offsite	Concrete/Industrial Saws	1	8.00	81	0.73
Road Removal/ Pipeline Install - Offsite	Excavators	1	8.00	158	0.38
Road Removal/ Pipeline Install - Offsite	Graders	0	8.00	187	0.41
Road Removal/ Pipeline Install - Offsite	Pumps	1	8.00	84	0.74
Road Removal/ Pipeline Install - Offsite	Rubber Tired Dozers	0	8.00	247	0.40
Road Removal/ Pipeline Install - Offsite	Scrapers	0	8.00	367	0.48

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

Road Removal/ Pipeline Install - Offsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipeline Paving - Offsite	Pavers	1	8.00	130	0.42
Pipeline Paving - Offsite	Paving Equipment	1	8.00	132	0.36
Pipeline Paving - Offsite	Rollers	1	8.00	80	0.38
Restriping - Offsite	Air Compressors	1	8.00	78	0.48
Building Construction - Onsite	Aerial Lifts	3	7.00	63	0.31
Building Construction - Onsite	Cranes	1	7.00	231	0.29
Building Construction - Onsite	Forklifts	7	8.00	89	0.20
Building Construction - Onsite	Generator Sets	3	8.00	84	0.74
Building Construction - Onsite	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction - Onsite	Welders	2	8.00	46	0.45
Architectural Coating - Onsite	Aerial Lifts	3	6.00	63	0.31
Architectural Coating - Onsite	Air Compressors	3	6.00	78	0.48
Testing - Offsite	Air Compressors	0	6.00	78	0.48
Testing - Offsite	Generator Sets	1	8.00	84	0.74
Fine Grading - Onsite	Excavators	2	8.00	158	0.38
Fine Grading - Onsite	Graders	1	8.00	187	0.41
Fine Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading - Onsite	Scrapers	2	8.00	367	0.48
Fine Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Concrete Laydown - Onsite	Other Construction Equipment	2	8.00	65	0.42
Concrete Laydown - Onsite	Pavers	0	8.00	130	0.42
Concrete Laydown - Onsite	Paving Equipment	0	8.00	132	0.36
Concrete Laydown - Onsite	Rollers	0	8.00	80	0.38
Concrete Laydown - Onsite	Surfacing Equipment	6	8.00	107	0.30

Trips and VMT

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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
Site Preparation - Onsite	2	20.00	4.00	24.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Mass Grading - Onsite	10	30.00	8.00	16,072.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Road Removal/ Pipeline Install - Offsite	4	16.00	2.00	286.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Paving - Offsite	3	8.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restriping - Offsite	1	4.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Onsite	25	750.00	884.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Onsite	6	230.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Testing - Offsite	1	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading - Onsite	8	20.00	8.00	5,356.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Concrete Laydown - Onsite	8	20.00	400.00	0.00	16.80	6.60	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

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.2 Site Preparation - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5955	6.6603	4.4750	0.0110		0.2746	0.2746		0.2526	0.2526		1,059.848 2	1,059.848 2	0.3428		1,068.417 6
Total	0.5955	6.6603	4.4750	0.0110	0.5303	0.2746	0.8048	0.0573	0.2526	0.3098		1,059.848 2	1,059.848 2	0.3428		1,068.417 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8600e-003	0.1760	0.0536	9.0000e-004	0.0280	1.8500e-003	0.0299	7.6800e-003	1.7700e-003	9.4500e-003		97.9475	97.9475	4.1800e-003	0.0155	102.6785
Vendor	4.6100e-003	0.1364	0.0582	6.9000e-004	0.0245	1.0100e-003	0.0255	7.0600e-003	9.7000e-004	8.0300e-003		73.7571	73.7571	1.9300e-003	0.0109	77.0521
Worker	0.0845	0.0525	0.8470	2.2800e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1500e-003	0.0689		230.0725	230.0725	5.2500e-003	5.3200e-003	231.7896
Total	0.0929	0.3649	0.9588	3.8700e-003	0.3080	4.1000e-003	0.3121	0.0825	3.8900e-003	0.0864		401.7771	401.7771	0.0114	0.0318	411.5202

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.2 Site Preparation - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.1345	0.5826	5.8792	0.0110		0.0179	0.0179		0.0179	0.0179	0.0000	1,059.848 2	1,059.848 2	0.3428		1,068.417 6
Total	0.1345	0.5826	5.8792	0.0110	0.2386	0.0179	0.2565	0.0258	0.0179	0.0437	0.0000	1,059.848 2	1,059.848 2	0.3428		1,068.417 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	3.8600e-003	0.1760	0.0536	9.0000e-004	0.0280	1.8500e-003	0.0299	7.6800e-003	1.7700e-003	9.4500e-003		97.9475	97.9475	4.1800e-003	0.0155	102.6785
Vendor	4.6100e-003	0.1364	0.0582	6.9000e-004	0.0245	1.0100e-003	0.0255	7.0600e-003	9.7000e-004	8.0300e-003		73.7571	73.7571	1.9300e-003	0.0109	77.0521
Worker	0.0845	0.0525	0.8470	2.2800e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1500e-003	0.0689		230.0725	230.0725	5.2500e-003	5.3200e-003	231.7896
Total	0.0929	0.3649	0.9588	3.8700e-003	0.3080	4.1000e-003	0.3121	0.0825	3.8900e-003	0.0864		401.7771	401.7771	0.0114	0.0318	411.5202

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.3 Mass Grading - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.8516	0.0000	11.8516	3.9626	0.0000	3.9626			0.0000			0.0000
Off-Road	4.8953	51.0824	40.3252	0.0925		2.0741	2.0741		1.9081	1.9081		8,951.735 3	8,951.735 3	2.8952		9,024.114 6
Total	4.8953	51.0824	40.3252	0.0925	11.8516	2.0741	13.9256	3.9626	1.9081	5.8707		8,951.735 3	8,951.735 3	2.8952		9,024.114 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2908	58.9217	17.9470	0.3009	9.3817	0.6197	10.0014	2.5725	0.5929	3.1654		32,796.08 67	32,796.08 67	1.3993	5.1984	34,380.18 01
Vendor	9.2300e-003	0.2728	0.1164	1.3800e-003	0.0490	2.0200e-003	0.0511	0.0141	1.9300e-003	0.0161		147.5141	147.5141	3.8600e-003	0.0218	154.1043
Worker	0.1267	0.0788	1.2705	3.4100e-003	0.3832	1.8700e-003	0.3851	0.1016	1.7200e-003	0.1033		345.1087	345.1087	7.8800e-003	7.9800e-003	347.6843
Total	1.4267	59.2733	19.3338	0.3057	9.8140	0.6236	10.4376	2.6883	0.5965	3.2848		33,288.70 96	33,288.70 96	1.4110	5.2281	34,881.96 87

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.3 Mass Grading - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3332	0.0000	5.3332	1.7832	0.0000	1.7832			0.0000			0.0000
Off-Road	1.1344	4.9156	46.6696	0.0925		0.1513	0.1513		0.1513	0.1513	0.0000	8,951.735 3	8,951.735 3	2.8952		9,024.114 6
Total	1.1344	4.9156	46.6696	0.0925	5.3332	0.1513	5.4845	1.7832	0.1513	1.9344	0.0000	8,951.735 3	8,951.735 3	2.8952		9,024.114 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	1.2908	58.9217	17.9470	0.3009	9.3817	0.6197	10.0014	2.5725	0.5929	3.1654		32,796.08 67	32,796.08 67	1.3993	5.1984	34,380.18 01
Vendor	9.2300e-003	0.2728	0.1164	1.3800e-003	0.0490	2.0200e-003	0.0511	0.0141	1.9300e-003	0.0161		147.5141	147.5141	3.8600e-003	0.0218	154.1043
Worker	0.1267	0.0788	1.2705	3.4100e-003	0.3832	1.8700e-003	0.3851	0.1016	1.7200e-003	0.1033		345.1087	345.1087	7.8800e-003	7.9800e-003	347.6843
Total	1.4267	59.2733	19.3338	0.3057	9.8140	0.6236	10.4376	2.6883	0.5965	3.2848		33,288.70 96	33,288.70 96	1.4110	5.2281	34,881.96 87

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.4 Road Removal/ Pipeline Install - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0106	0.0000	0.0106	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	1.0016	8.4214	12.8717	0.0211		0.4147	0.4147		0.4026	0.4026		2,017.3824	2,017.3824	0.3170		2,025.3070
Total	1.0016	8.4214	12.8717	0.0211	0.0106	0.4147	0.4254	1.3000e-003	0.4026	0.4039		2,017.3824	2,017.3824	0.3170		2,025.3070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.2500e-003	0.3311	0.1009	1.6900e-003	0.0527	3.4800e-003	0.0562	0.0145	3.3300e-003	0.0178		184.2960	184.2960	7.8600e-003	0.0292	193.1977
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0676	0.0420	0.6776	1.8200e-003	0.2044	1.0000e-003	0.2054	0.0542	9.2000e-004	0.0551		184.0580	184.0580	4.2000e-003	4.2600e-003	185.4316
Total	0.0771	0.4413	0.8075	3.8500e-003	0.2694	4.9800e-003	0.2743	0.0722	4.7300e-003	0.0769		405.2325	405.2325	0.0130	0.0389	417.1554

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.4 Road Removal/ Pipeline Install - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7900e-003	0.0000	4.7900e-003	5.8000e-004	0.0000	5.8000e-004			0.0000			0.0000
Off-Road	0.2299	0.9961	14.1751	0.0211		0.0307	0.0307		0.0307	0.0307	0.0000	2,017.3824	2,017.3824	0.3170		2,025.3070
Total	0.2299	0.9961	14.1751	0.0211	4.7900e-003	0.0307	0.0354	5.8000e-004	0.0307	0.0312	0.0000	2,017.3824	2,017.3824	0.3170		2,025.3070

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.2500e-003	0.3311	0.1009	1.6900e-003	0.0527	3.4800e-003	0.0562	0.0145	3.3300e-003	0.0178		184.2960	184.2960	7.8600e-003	0.0292	193.1977
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0676	0.0420	0.6776	1.8200e-003	0.2044	1.0000e-003	0.2054	0.0542	9.2000e-004	0.0551		184.0580	184.0580	4.2000e-003	4.2600e-003	185.4316
Total	0.0771	0.4413	0.8075	3.8500e-003	0.2694	4.9800e-003	0.2743	0.0722	4.7300e-003	0.0769		405.2325	405.2325	0.0130	0.0389	417.1554

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.4 Road Removal/ Pipeline Install - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0106	0.0000	0.0106	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	0.9429	7.8439	12.8705	0.0211		0.3634	0.3634		0.3526	0.3526		2,017.7313	2,017.7313	0.3150		2,025.6053
Total	0.9429	7.8439	12.8705	0.0211	0.0106	0.3634	0.3741	1.3000e-003	0.3526	0.3539		2,017.7313	2,017.7313	0.3150		2,025.6053

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1900e-003	0.3322	0.1011	1.6600e-003	0.0527	3.4400e-003	0.0562	0.0145	3.2900e-003	0.0177		181.0950	181.0950	7.6400e-003	0.0287	189.8395
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0628	0.0373	0.6296	1.7700e-003	0.2044	9.6000e-004	0.2053	0.0542	8.8000e-004	0.0551		178.6880	178.6880	3.8000e-003	3.9400e-003	179.9579
Total	0.0722	0.4383	0.7593	3.7700e-003	0.2694	4.9000e-003	0.2742	0.0722	4.6500e-003	0.0768		396.1532	396.1532	0.0124	0.0380	407.7918

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.4 Road Removal/ Pipeline Install - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.7900e-003	0.0000	4.7900e-003	5.8000e-004	0.0000	5.8000e-004			0.0000			0.0000
Off-Road	0.2299	0.9961	14.1751	0.0211		0.0307	0.0307		0.0307	0.0307	0.0000	2,017.7313	2,017.7313	0.3150		2,025.6053
Total	0.2299	0.9961	14.1751	0.0211	4.7900e-003	0.0307	0.0354	5.8000e-004	0.0307	0.0312	0.0000	2,017.7313	2,017.7313	0.3150		2,025.6053

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1900e-003	0.3322	0.1011	1.6600e-003	0.0527	3.4400e-003	0.0562	0.0145	3.2900e-003	0.0177		181.0950	181.0950	7.6400e-003	0.0287	189.8395
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0628	0.0373	0.6296	1.7700e-003	0.2044	9.6000e-004	0.2053	0.0542	8.8000e-004	0.0551		178.6880	178.6880	3.8000e-003	3.9400e-003	179.9579
Total	0.0722	0.4383	0.7593	3.7700e-003	0.2694	4.9000e-003	0.2742	0.0722	4.6500e-003	0.0768		396.1532	396.1532	0.0124	0.0380	407.7918

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.5 Pipeline Paving - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5164	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347		1,103.7921	1,103.7921	0.3570		1,112.7168
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5267	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347		1,103.7921	1,103.7921	0.3570		1,112.7168

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0338	0.0210	0.3388	9.1000e-004	0.1022	5.0000e-004	0.1027	0.0271	4.6000e-004	0.0276		92.0290	92.0290	2.1000e-003	2.1300e-003	92.7158
Total	0.0361	0.0892	0.3679	1.2500e-003	0.1144	1.0000e-003	0.1154	0.0306	9.4000e-004	0.0316		128.9075	128.9075	3.0600e-003	7.5800e-003	131.2419

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.5 Pipeline Paving - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.7921	1,103.7921	0.3570		1,112.7168
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1506	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.7921	1,103.7921	0.3570		1,112.7168

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0338	0.0210	0.3388	9.1000e-004	0.1022	5.0000e-004	0.1027	0.0271	4.6000e-004	0.0276		92.0290	92.0290	2.1000e-003	2.1300e-003	92.7158
Total	0.0361	0.0892	0.3679	1.2500e-003	0.1144	1.0000e-003	0.1154	0.0306	9.4000e-004	0.0316		128.9075	128.9075	3.0600e-003	7.5800e-003	131.2419

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.5 Pipeline Paving - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4941	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155		1,103.7736	1,103.7736	0.3570		1,112.6982
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5044	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155		1,103.7736	1,103.7736	0.3570		1,112.6982

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0314	0.0186	0.3148	8.8000e-004	0.1022	4.8000e-004	0.1027	0.0271	4.4000e-004	0.0275		89.3440	89.3440	1.9000e-003	1.9700e-003	89.9790
Total	0.0336	0.0874	0.3434	1.2200e-003	0.1144	9.8000e-004	0.1154	0.0306	9.2000e-004	0.0316		125.7142	125.7142	2.8400e-003	7.3400e-003	127.9734

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.5 Pipeline Paving - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.7736	1,103.7736	0.3570		1,112.6982
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1506	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.7736	1,103.7736	0.3570		1,112.6982

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0314	0.0186	0.3148	8.8000e-004	0.1022	4.8000e-004	0.1027	0.0271	4.4000e-004	0.0275		89.3440	89.3440	1.9000e-003	1.9700e-003	89.9790
Total	0.0336	0.0874	0.3434	1.2200e-003	0.1144	9.8000e-004	0.1154	0.0306	9.2000e-004	0.0316		125.7142	125.7142	2.8400e-003	7.3400e-003	127.9734

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.6 Restriping - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	1.5506	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0169	0.0105	0.1694	4.6000e-004	0.0511	2.5000e-004	0.0513	0.0136	2.3000e-004	0.0138		46.0145	46.0145	1.0500e-003	1.0600e-003	46.3579
Total	0.0192	0.0787	0.1985	8.0000e-004	0.0634	7.5000e-004	0.0641	0.0171	7.1000e-004	0.0178		82.8930	82.8930	2.0100e-003	6.5100e-003	84.8840

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.6 Restriping - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0396	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0225		375.8253
Total	1.3347	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0225		375.8253

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3100e-003	0.0682	0.0291	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.8785	36.8785	9.6000e-004	5.4500e-003	38.5261
Worker	0.0169	0.0105	0.1694	4.6000e-004	0.0511	2.5000e-004	0.0513	0.0136	2.3000e-004	0.0138		46.0145	46.0145	1.0500e-003	1.0600e-003	46.3579
Total	0.0192	0.0787	0.1985	8.0000e-004	0.0634	7.5000e-004	0.0641	0.0171	7.1000e-004	0.0178		82.8930	82.8930	2.0100e-003	6.5100e-003	84.8840

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.6 Restriping - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	1.5361	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0157	9.3100e-003	0.1574	4.4000e-004	0.0511	2.4000e-004	0.0513	0.0136	2.2000e-004	0.0138		44.6720	44.6720	9.5000e-004	9.9000e-004	44.9895
Total	0.0179	0.0781	0.1860	7.8000e-004	0.0634	7.4000e-004	0.0641	0.0171	7.0000e-004	0.0178		81.0422	81.0422	1.8900e-003	6.3600e-003	82.9839

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.6 Restriping - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0396	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0211		375.7923
Total	1.3347	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0211		375.7923

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0688	0.0286	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.3702	36.3702	9.4000e-004	5.3700e-003	37.9944
Worker	0.0157	9.3100e-003	0.1574	4.4000e-004	0.0511	2.4000e-004	0.0513	0.0136	2.2000e-004	0.0138		44.6720	44.6720	9.5000e-004	9.9000e-004	44.9895
Total	0.0179	0.0781	0.1860	7.8000e-004	0.0634	7.4000e-004	0.0641	0.0171	7.0000e-004	0.0178		81.0422	81.0422	1.8900e-003	6.3600e-003	82.9839

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.7 Building Construction - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767		6,611.0338	6,611.0338	1.5269		6,649.2069
Total	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767		6,611.0338	6,611.0338	1.5269		6,649.2069

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0196	30.1462	12.8593	0.1520	5.4184	0.2232	5.6415	1.5603	0.2135	1.7738		16,300.3123	16,300.3123	0.4263	2.4079	17,028.5229
Worker	3.1675	1.9698	31.7618	0.0854	9.5798	0.0467	9.6265	2.5405	0.0430	2.5834		8,627.7184	8,627.7184	0.1970	0.1995	8,692.1083
Total	4.1871	32.1160	44.6211	0.2373	14.9981	0.2698	15.2680	4.1008	0.2564	4.3572		24,928.0308	24,928.0308	0.6233	2.6074	25,720.6312

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.7 Building Construction - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2901	7.2322	47.2407	0.0695		0.2265	0.2265		0.2245	0.2245	0.0000	6,611.0338	6,611.0338	1.5269		6,649.2069
Total	1.2901	7.2322	47.2407	0.0695		0.2265	0.2265		0.2245	0.2245	0.0000	6,611.0338	6,611.0338	1.5269		6,649.2069

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0196	30.1462	12.8593	0.1520	5.4184	0.2232	5.6415	1.5603	0.2135	1.7738		16,300.3123	16,300.3123	0.4263	2.4079	17,028.5229
Worker	3.1675	1.9698	31.7618	0.0854	9.5798	0.0467	9.6265	2.5405	0.0430	2.5834		8,627.7184	8,627.7184	0.1970	0.1995	8,692.1083
Total	4.1871	32.1160	44.6211	0.2373	14.9981	0.2698	15.2680	4.1008	0.2564	4.3572		24,928.0308	24,928.0308	0.6233	2.6074	25,720.6312

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.7 Building Construction - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767		6,612.5216	6,612.5216	1.5179		6,650.4693
Total	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767		6,612.5216	6,612.5216	1.5179		6,650.4693

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9965	30.4089	12.6488	0.1499	5.4183	0.2197	5.6380	1.5603	0.2102	1.7705		16,075.6207	16,075.6207	0.4133	2.3744	16,793.5247
Worker	2.9423	1.7460	29.5123	0.0829	9.5798	0.0448	9.6246	2.5405	0.0412	2.5817		8,375.9985	8,375.9985	0.1781	0.1848	8,435.5269
Total	3.9388	32.1549	42.1611	0.2328	14.9981	0.2645	15.2626	4.1008	0.2514	4.3522		24,451.6193	24,451.6193	0.5914	2.5592	25,229.0516

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.7 Building Construction - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2528	7.1343	47.2142	0.0696		0.2109	0.2109		0.2090	0.2090	0.0000	6,612.5216	6,612.5216	1.5179		6,650.4693
Total	1.2528	7.1343	47.2142	0.0696		0.2109	0.2109		0.2090	0.2090	0.0000	6,612.5216	6,612.5216	1.5179		6,650.4693

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9965	30.4089	12.6488	0.1499	5.4183	0.2197	5.6380	1.5603	0.2102	1.7705		16,075.6207	16,075.6207	0.4133	2.3744	16,793.5247
Worker	2.9423	1.7460	29.5123	0.0829	9.5798	0.0448	9.6246	2.5405	0.0412	2.5817		8,375.9985	8,375.9985	0.1781	0.1848	8,435.5269
Total	3.9388	32.1549	42.1611	0.2328	14.9981	0.2645	15.2626	4.1008	0.2514	4.3522		24,451.6193	24,451.6193	0.5914	2.5592	25,229.0516

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.8 Architectural Coating - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	47.0207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6202	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016		1,210.2388	1,210.2388	0.1659		1,214.3858
Total	47.6408	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016		1,210.2388	1,210.2388	0.1659		1,214.3858

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9023	0.5354	9.0504	0.0254	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,568.6396	2,568.6396	0.0546	0.0567	2,586.8949
Total	0.9023	0.5354	9.0504	0.0254	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,568.6396	2,568.6396	0.0546	0.0567	2,586.8949

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.8 Architectural Coating - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	47.0207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1670	1.5704	7.9560	0.0127		0.0324	0.0324		0.0308	0.0308	0.0000	1,210.2388	1,210.2388	0.1659		1,214.3858
Total	47.1877	1.5704	7.9560	0.0127		0.0324	0.0324		0.0308	0.0308	0.0000	1,210.2388	1,210.2388	0.1659		1,214.3858

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9023	0.5354	9.0504	0.0254	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,568.6396	2,568.6396	0.0546	0.0567	2,586.8949
Total	0.9023	0.5354	9.0504	0.0254	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,568.6396	2,568.6396	0.0546	0.0567	2,586.8949

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.9 Testing - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107		623.0346	623.0346	0.0252		623.6650
Total	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107		623.0346	623.0346	0.0252		623.6650

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0235	0.0140	0.2361	6.6000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		67.0080	67.0080	1.4200e-003	1.4800e-003	67.4842
Total	0.0235	0.0140	0.2361	6.6000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		67.0080	67.0080	1.4200e-003	1.4800e-003	67.4842

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.9 Testing - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0658	0.2850	4.0564	6.5800e-003		8.7700e-003	8.7700e-003		8.7700e-003	8.7700e-003	0.0000	623.0346	623.0346	0.0252		623.6650
Total	0.0658	0.2850	4.0564	6.5800e-003		8.7700e-003	8.7700e-003		8.7700e-003	8.7700e-003	0.0000	623.0346	623.0346	0.0252		623.6650

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0235	0.0140	0.2361	6.6000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		67.0080	67.0080	1.4200e-003	1.4800e-003	67.4842
Total	0.0235	0.0140	0.2361	6.6000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		67.0080	67.0080	1.4200e-003	1.4800e-003	67.4842

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.10 Fine Grading - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					9.5549	0.0000	9.5549	3.7070	0.0000	3.7070			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.5549	1.3354	10.8903	3.7070	1.2286	4.9355		6,009.7487	6,009.7487	1.9437		6,058.3405

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.8526	39.4027	11.9923	0.1971	6.2528	0.4076	6.6604	1.7146	0.3900	2.1045			21,478.9664	21,478.9664	0.9056	3.4044	22,516.1156
Vendor	9.0200e-003	0.2752	0.1145	1.3600e-003	0.0490	1.9900e-003	0.0510	0.0141	1.9000e-003	0.0160			145.4807	145.4807	3.7400e-003	0.0215	151.9776
Worker	0.0785	0.0466	0.7870	2.2100e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688			223.3600	223.3600	4.7500e-003	4.9300e-003	224.9474
Total	0.9401	39.7245	12.8938	0.2007	6.5573	0.4108	6.9681	1.7964	0.3930	2.1894			21,847.8071	21,847.8071	0.9141	3.4308	22,893.0406

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.10 Fine Grading - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.2997	0.0000	4.2997	1.6681	0.0000	1.6681			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	0.7616	3.3000	32.9991	0.0621	4.2997	0.1015	4.4012	1.6681	0.1015	1.7697	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.8526	39.4027	11.9923	0.1971	6.2528	0.4076	6.6604	1.7146	0.3900	2.1045			21,478.9664	21,478.9664	0.9056	3.4044	22,516.1156
Vendor	9.0200e-003	0.2752	0.1145	1.3600e-003	0.0490	1.9900e-003	0.0510	0.0141	1.9000e-003	0.0160			145.4807	145.4807	3.7400e-003	0.0215	151.9776
Worker	0.0785	0.0466	0.7870	2.2100e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688			223.3600	223.3600	4.7500e-003	4.9300e-003	224.9474
Total	0.9401	39.7245	12.8938	0.2007	6.5573	0.4108	6.9681	1.7964	0.3930	2.1894			21,847.8071	21,847.8071	0.9141	3.4308	22,893.0406

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.11 Concrete Laydown - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2204	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548		2,069.4588	2,069.4588	0.6693		2,086.1914
Paving	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2488	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548		2,069.4588	2,069.4588	0.6693		2,086.1914

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4509	13.7597	5.7234	0.0678	2.4517	0.0994	2.5511	0.7060	0.0951	0.8011		7,274.0365	7,274.0365	0.1870	1.0744	7,598.8799
Worker	0.0785	0.0466	0.7870	2.2100e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		223.3600	223.3600	4.7500e-003	4.9300e-003	224.9474
Total	0.5294	13.8062	6.5104	0.0700	2.7072	0.1006	2.8078	0.7738	0.0962	0.8700		7,497.3965	7,497.3965	0.1918	1.0793	7,823.8273

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

3.11 Concrete Laydown - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5714	4.3323	16.0541	0.0214		0.2553	0.2553		0.2370	0.2370	0.0000	2,069.4588	2,069.4588	0.6693		2,086.1914
Paving	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5998	4.3323	16.0541	0.0214		0.2553	0.2553		0.2370	0.2370	0.0000	2,069.4588	2,069.4588	0.6693		2,086.1914

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4509	13.7597	5.7234	0.0678	2.4517	0.0994	2.5511	0.7060	0.0951	0.8011		7,274.0365	7,274.0365	0.1870	1.0744	7,598.8799
Worker	0.0785	0.0466	0.7870	2.2100e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		223.3600	223.3600	4.7500e-003	4.9300e-003	224.9474
Total	0.5294	13.8062	6.5104	0.0700	2.7072	0.1006	2.8078	0.7738	0.0962	0.8700		7,497.3965	7,497.3965	0.1918	1.0793	7,823.8273

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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	10.8673	235.8539	165.9252	1.6369	90.1921	2.6346	92.8267	24.7427	2.5142	27.2568		174,027.1834	174,027.1834	5.1077	21.0326	180,422.5774
Unmitigated	10.8673	235.8539	165.9252	1.6369	90.1921	2.6346	92.8267	24.7427	2.5142	27.2568		174,027.1834	174,027.1834	5.1077	21.0326	180,422.5774

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	1,473.34	1,473.34	1473.34	21,451,860	21,451,860
Unrefrigerated Warehouse-No Rail	3,382.35	3,382.35	3382.35	18,098,297	18,098,297
Total	4,855.70	4,855.70	4,855.70	39,550,156	39,550,156

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	40.00	0.00	0.00	100.00	100	0	0
Unrefrigerated Warehouse-No	14.70	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.165262	0.045632	0.183539	0.605567	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.600758	0.062281	0.191226	0.145734	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
NaturalGas Unmitigated	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53541.3	0.5774	5.2491	4.4093	0.0315		0.3989	0.3989		0.3989	0.3989		6,298.9716	6,298.9716	0.1207	0.1155	6,336.4032
Unrefrigerated Warehouse-No Rail	11788.7	0.1271	1.1558	0.9708	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,386.9032	1,386.9032	0.0266	0.0254	1,395.1449
Total		0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53.5413	0.5774	5.2491	4.4093	0.0315		0.3989	0.3989		0.3989	0.3989		6,298.9716	6,298.9716	0.1207	0.1155	6,336.4032
Unrefrigerated Warehouse-No Rail	11.7887	0.1271	1.1558	0.9708	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,386.9032	1,386.9032	0.0266	0.0254	1,395.1449
Total		0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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	58.2868	1.3200e-003	0.1525	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		0.3045	0.3045	6.2000e-004		0.3201
Unmitigated	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017

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	3.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.8691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0242	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Total	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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	3.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.8691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0103	1.3200e-003	0.1525	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		0.3045	0.3045	6.2000e-004		0.3201
Total	58.2868	1.3200e-003	0.1525	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		0.3045	0.3045	6.2000e-004		0.3201

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Summer

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	1	50	500	1	Diesel

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	3.3721	0.9921	8.5980	0.0162		0.0496	0.0496		0.0496	0.0496		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	3.3721	0.9921	8.5980	0.0162		0.0496	0.0496		0.0496	0.0496		1,725.0290	1,725.0290	0.2419		1,731.0753

11.0 Vegetation

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

Apple Valley 143 - Mitigated
San Bernardino-Mojave Desert County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	377.78	1000sqft	19.61	377,780.00	0
Unrefrigerated Warehouse-No Rail	2,140.73	1000sqft	61.84	2,140,730.00	0
Other Asphalt Surfaces	0.65	Acre	0.65	28,314.00	0
Other Non-Asphalt Surfaces	45.68	Acre	45.68	1,989,820.80	0
Other Non-Asphalt Surfaces	16.73	Acre	16.73	728,758.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Apple Valley 143 Project

Land Use - On-Site Land uses: High Cube Cold Storage (Refrigerated Warehouse), High Cube Non-Cold Storage (Unrefrigerated Warehouse), and Parking Lots/Driveways. Off-site 0.65 acres of asphalt surfaces for repave

Construction Phase - Adjusted schedule based on applicant input and representative water pipeline project experience

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input - Laser Screeds (x2) modeled as "Other Construction Equipment" and Concrete Finishing Machines (x2) modeled as "Surfacing Equipment"

Off-road Equipment - Adjusted based on applicant input

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

Off-road Equipment -

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Trips and VMT - Trips adjusted per applicant input, with 2 water trucks added during site prep and grading. Offsite water pipeline construction vehicles based on a representative water pipeline project, scaled to the length of the proposed pipeline

Grading - Default onsite acres. Offsite grading input as 0.65 acres. Total of 150,000 CY assumed export during onsite mass/fine grading and 2,288 CY assumed export during offsite grading

Architectural Coating - Default emission factors. Adjusted restriping for offsite repavement to anticipated asphalt area. Mitigation: 10 g/L assumed for building coatings

Vehicle Trips - Trip generation based on traffic report, with Refrigerated Warehouse used to estimate trucks and Unrefrigerated Warehouse used to estimate employee trips. Truck triplength of 40 miles and worker triplength of 14.7 miles assumed

Area Coating - Adjusted VOC content per MDAQMD Rule 1113.

Water And Wastewater - Adjusted water demand based on Water Supply Assessment

Construction Off-road Equipment Mitigation - MDAQMD Rule 403: compliance assumed with watering site 2x per day and limiting vehicle speed to 15 mph on unpaved areas. Mitigation: Tier 4F assumed for equipment >75hp

Area Mitigation - Mitigation: all electric landscaping equipment

Energy Mitigation - Mitigation: on-site solar generation to meet at least 75% of the project's total operational energy requirements

Operational Off-Road Equipment - Mitigation: 100% offroad equipment for operations (forklifts/yard trucks) will be electric. GHGs from electric forklifts were estimated outside of CalEEMod.

Fleet Mix - Adjusted fleetmix to match traffic report with Refrigerated Warehouse used to model trucks and Unrefrigerated Warehouse used to model workers

Stationary Sources - Emergency Generators and Fire Pumps - 1x 500hp diesel emergency generator assumed per building. Routine testing of 1 hour per day, 50 hours per year

Stationary Sources - Emergency Generators and Fire Pumps EF - Tier 4 Final emergency generators

Water Mitigation - Mitigation: Water Conservation Strategy to reduce indoor and outdoor water by 20%

Waste Mitigation - Mitigation: 75% waste diversion program

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	0.00

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	104,980.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	47,500.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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	15.00
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
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	220.00	170.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	5.00
tblConstructionPhase	NumDays	3,100.00	199.00
tblConstructionPhase	NumDays	310.00	30.00
tblConstructionPhase	NumDays	310.00	95.00
tblConstructionPhase	NumDays	310.00	15.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	165.00
tblConstructionPhase	NumDays	120.00	15.00
tblFleetMix	HHD	0.02	0.61
tblFleetMix	HHD	0.02	0.00

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.60
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.0090e-003	0.05
tblFleetMix	LHD2	7.0090e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.15
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MHD	0.01	0.18
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblGrading	AcresOfGrading	0.00	0.65
tblGrading	MaterialExported	0.00	112,504.00
tblGrading	MaterialExported	0.00	2,288.00
tblGrading	MaterialExported	0.00	37,496.00
tblLandUse	LotAcreage	8.67	19.61

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

tblLandUse	LotAcreage	49.14	61.84
tblOffRoadEquipment	HorsePower	172.00	65.00
tblOffRoadEquipment	HorsePower	263.00	107.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	NOX_EF	2.85	0.30
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblTripsAndVMT	HaulingTripNumber	0.00	24.00

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

tbITripsAndVMT	HaulingTripNumber	14,063.00	16,072.00
tbITripsAndVMT	HaulingTripNumber	4,687.00	5,356.00
tbITripsAndVMT	VendorTripNumber	0.00	4.00
tbITripsAndVMT	VendorTripNumber	0.00	400.00
tbITripsAndVMT	VendorTripNumber	0.00	8.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	863.00	884.00
tbITripsAndVMT	VendorTripNumber	0.00	8.00
tbITripsAndVMT	WorkerTripNumber	5.00	20.00
tbITripsAndVMT	WorkerTripNumber	25.00	30.00
tbITripsAndVMT	WorkerTripNumber	10.00	16.00
tbITripsAndVMT	WorkerTripNumber	442.00	4.00
tbITripsAndVMT	WorkerTripNumber	2,211.00	750.00
tbITripsAndVMT	WorkerTripNumber	442.00	230.00
tbITripsAndVMT	WorkerTripNumber	442.00	6.00
tbIVehicleTrips	CC_TL	6.60	0.00
tbIVehicleTrips	CC_TL	6.60	0.00
tbIVehicleTrips	CNW_TL	6.60	40.00
tbIVehicleTrips	CNW_TL	6.60	0.00
tbIVehicleTrips	CNW_TTP	41.00	100.00
tbIVehicleTrips	CNW_TTP	41.00	0.00
tbIVehicleTrips	CW_TL	14.70	0.00
tbIVehicleTrips	CW_TTP	59.00	0.00
tbIVehicleTrips	CW_TTP	59.00	100.00
tbIVehicleTrips	DV_TP	5.00	0.00
tbIVehicleTrips	DV_TP	5.00	0.00
tbIVehicleTrips	PB_TP	3.00	0.00

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.12	3.90
tblVehicleTrips	ST_TR	1.74	1.58
tblVehicleTrips	SU_TR	2.12	3.90
tblVehicleTrips	SU_TR	1.74	1.58
tblVehicleTrips	WD_TR	2.12	3.90
tblVehicleTrips	WD_TR	1.74	1.58
tblWater	IndoorWaterUseRate	87,361,625.00	1,611,908.59
tblWater	IndoorWaterUseRate	495,043,812.50	9,134,049.12

2.0 Emissions Summary

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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					
2023	10.9702	129.4640	107.4032	0.4404	22.1233	3.4697	25.5930	6.7721	3.2438	10.0159	0.0000	46,341.4903	46,341.4903	5.0157	5.2896	48,043.1886
2024	59.9064	146.0465	137.5214	0.5935	34.0480	3.6885	37.7365	10.3832	3.4654	13.8486	0.0000	61,724.8586	61,724.8586	5.1790	6.0673	63,662.3754
Maximum	59.9064	146.0465	137.5214	0.5935	34.0480	3.6885	37.7365	10.3832	3.4654	13.8486	0.0000	61,724.8586	61,724.8586	5.1790	6.0673	63,662.3754

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					
2023	7.1619	69.8182	112.9105	0.4404	15.5991	0.8373	16.4364	4.5919	0.8098	5.4017	0.0000	46,341.4903	46,341.4903	5.0157	5.2896	48,043.1886
2024	54.7488	88.4013	145.7578	0.5935	28.7928	1.0355	29.8283	8.3444	0.9999	9.3442	0.0000	61,724.8586	61,724.8586	5.1790	6.0673	63,662.3754
Maximum	54.7488	88.4013	145.7578	0.5935	28.7928	1.0355	29.8283	8.3444	0.9999	9.3442	0.0000	61,724.8586	61,724.8586	5.1790	6.0673	63,662.3754

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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	12.65	42.57	-5.61	0.00	20.97	73.84	26.95	24.59	73.03	38.21	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Energy	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
Mobile	9.7127	247.6047	148.8060	1.6082	90.1921	2.6363	92.8284	24.7427	2.5158	27.2584		171,137.1026	171,137.1026	5.1055	21.0802	177,546.6411
Stationary	3.3721	0.9921	8.5980	0.0162		0.0496	0.0496		0.0496	0.0496		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	72.0900	255.0041	163.0471	1.6628	90.1921	3.1736	93.3657	24.7427	3.0531	27.7957		180,548.5714	180,548.5714	5.4962	21.2211	187,009.8663

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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

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	58.2868	1.3200e-003	0.1525	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		0.3045	0.3045	6.2000e-004		0.3201
Energy	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
Mobile	9.7127	247.6047	148.8060	1.6082	90.1921	2.6363	92.8284	24.7427	2.5158	27.2584		171,137.1026	171,137.1026	5.1055	21.0802	177,546.6411
Stationary	3.3721	0.9921	8.5980	0.0162		0.0496	0.0496		0.0496	0.0496		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	72.0761	255.0030	162.9366	1.6628	90.1921	3.1730	93.3652	24.7427	3.0526	27.7952		180,548.3110	180,548.3110	5.4953	21.2211	187,009.5846

	ROG	NOx	CO	SO2	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	0.02	0.00	0.07	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	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 - Onsite	Site Preparation	10/1/2023	10/20/2023	5	15	
2	Mass Grading - Onsite	Grading	10/21/2023	12/1/2023	5	30	
3	Road Removal/ Pipeline Install - Offsite	Grading	11/1/2023	3/12/2024	5	95	
4	Pipeline Paving - Offsite	Paving	11/1/2023	6/18/2024	5	165	

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

5	Restriping - Offsite	Architectural Coating	11/1/2023	6/25/2024	5	170
6	Building Construction - Onsite	Building Construction	12/2/2023	9/5/2024	5	199
7	Architectural Coating - Onsite	Architectural Coating	6/14/2024	9/5/2024	5	60
8	Testing - Offsite	Architectural Coating	6/26/2024	7/2/2024	5	5
9	Fine Grading - Onsite	Grading	8/16/2024	9/5/2024	5	15
10	Concrete Laydown - Onsite	Paving	9/6/2024	11/28/2024	5	60

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 150

Acres of Paving: 63.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 47,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation - Onsite	Crawler Tractors	1	8.00	212	0.43
Site Preparation - Onsite	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation - Onsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Mass Grading - Onsite	Excavators	2	8.00	158	0.38
Mass Grading - Onsite	Graders	1	8.00	187	0.41
Mass Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Mass Grading - Onsite	Scrapers	4	8.00	367	0.48
Mass Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Road Removal/ Pipeline Install - Offsite	Concrete/Industrial Saws	1	8.00	81	0.73
Road Removal/ Pipeline Install - Offsite	Excavators	1	8.00	158	0.38
Road Removal/ Pipeline Install - Offsite	Graders	0	8.00	187	0.41
Road Removal/ Pipeline Install - Offsite	Pumps	1	8.00	84	0.74
Road Removal/ Pipeline Install - Offsite	Rubber Tired Dozers	0	8.00	247	0.40
Road Removal/ Pipeline Install - Offsite	Scrapers	0	8.00	367	0.48

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

Road Removal/ Pipeline Install - Offsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipeline Paving - Offsite	Pavers	1	8.00	130	0.42
Pipeline Paving - Offsite	Paving Equipment	1	8.00	132	0.36
Pipeline Paving - Offsite	Rollers	1	8.00	80	0.38
Restriping - Offsite	Air Compressors	1	8.00	78	0.48
Building Construction - Onsite	Aerial Lifts	3	7.00	63	0.31
Building Construction - Onsite	Cranes	1	7.00	231	0.29
Building Construction - Onsite	Forklifts	7	8.00	89	0.20
Building Construction - Onsite	Generator Sets	3	8.00	84	0.74
Building Construction - Onsite	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction - Onsite	Welders	2	8.00	46	0.45
Architectural Coating - Onsite	Aerial Lifts	3	6.00	63	0.31
Architectural Coating - Onsite	Air Compressors	3	6.00	78	0.48
Testing - Offsite	Air Compressors	0	6.00	78	0.48
Testing - Offsite	Generator Sets	1	8.00	84	0.74
Fine Grading - Onsite	Excavators	2	8.00	158	0.38
Fine Grading - Onsite	Graders	1	8.00	187	0.41
Fine Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading - Onsite	Scrapers	2	8.00	367	0.48
Fine Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Concrete Laydown - Onsite	Other Construction Equipment	2	8.00	65	0.42
Concrete Laydown - Onsite	Pavers	0	8.00	130	0.42
Concrete Laydown - Onsite	Paving Equipment	0	8.00	132	0.36
Concrete Laydown - Onsite	Rollers	0	8.00	80	0.38
Concrete Laydown - Onsite	Surfacing Equipment	6	8.00	107	0.30

Trips and VMT

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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
Site Preparation - Onsite	2	20.00	4.00	24.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Mass Grading - Onsite	10	30.00	8.00	16,072.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Road Removal/ Pipeline Install - Offsite	4	16.00	2.00	286.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Paving - Offsite	3	8.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restriping - Offsite	1	4.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Onsite	25	750.00	884.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Onsite	6	230.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Testing - Offsite	1	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading - Onsite	8	20.00	8.00	5,356.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Concrete Laydown - Onsite	8	20.00	400.00	0.00	16.80	6.60	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

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.2 Site Preparation - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5955	6.6603	4.4750	0.0110		0.2746	0.2746		0.2526	0.2526		1,059.848 2	1,059.848 2	0.3428		1,068.417 6
Total	0.5955	6.6603	4.4750	0.0110	0.5303	0.2746	0.8048	0.0573	0.2526	0.3098		1,059.848 2	1,059.848 2	0.3428		1,068.417 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.5600e-003	0.1855	0.0546	9.0000e-004	0.0280	1.8500e-003	0.0299	7.6800e-003	1.7700e-003	9.4600e-003		98.0953	98.0953	4.1600e-003	0.0156	102.8329
Vendor	4.2900e-003	0.1441	0.0600	6.9000e-004	0.0245	1.0100e-003	0.0255	7.0600e-003	9.7000e-004	8.0300e-003		73.9433	73.9433	1.9100e-003	0.0109	77.2483
Worker	0.0822	0.0552	0.6928	2.0600e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1500e-003	0.0689		208.4024	208.4024	5.2100e-003	5.4900e-003	210.1687
Total	0.0900	0.3849	0.8074	3.6500e-003	0.3080	4.1000e-003	0.3121	0.0825	3.8900e-003	0.0864		380.4409	380.4409	0.0113	0.0320	390.2499

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.2 Site Preparation - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.1345	0.5826	5.8792	0.0110		0.0179	0.0179		0.0179	0.0179	0.0000	1,059.848 2	1,059.848 2	0.3428		1,068.417 6
Total	0.1345	0.5826	5.8792	0.0110	0.2386	0.0179	0.2565	0.0258	0.0179	0.0437	0.0000	1,059.848 2	1,059.848 2	0.3428		1,068.417 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	3.5600e-003	0.1855	0.0546	9.0000e-004	0.0280	1.8500e-003	0.0299	7.6800e-003	1.7700e-003	9.4600e-003		98.0953	98.0953	4.1600e-003	0.0156	102.8329
Vendor	4.2900e-003	0.1441	0.0600	6.9000e-004	0.0245	1.0100e-003	0.0255	7.0600e-003	9.7000e-004	8.0300e-003		73.9433	73.9433	1.9100e-003	0.0109	77.2483
Worker	0.0822	0.0552	0.6928	2.0600e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1500e-003	0.0689		208.4024	208.4024	5.2100e-003	5.4900e-003	210.1687
Total	0.0900	0.3849	0.8074	3.6500e-003	0.3080	4.1000e-003	0.3121	0.0825	3.8900e-003	0.0864		380.4409	380.4409	0.0113	0.0320	390.2499

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.3 Mass Grading - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.8516	0.0000	11.8516	3.9626	0.0000	3.9626			0.0000			0.0000
Off-Road	4.8953	51.0824	40.3252	0.0925		2.0741	2.0741		1.9081	1.9081		8,951.735 3	8,951.735 3	2.8952		9,024.114 6
Total	4.8953	51.0824	40.3252	0.0925	11.8516	2.0741	13.9256	3.9626	1.9081	5.8707		8,951.735 3	8,951.735 3	2.8952		9,024.114 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1935	62.1135	18.2710	0.3014	9.3817	0.6207	10.0025	2.5725	0.5939	3.1664		32,845.57 42	32,845.57 42	1.3945	5.2062	34,431.87 83
Vendor	8.5700e-003	0.2882	0.1200	1.3800e-003	0.0490	2.0300e-003	0.0511	0.0141	1.9400e-003	0.0161		147.8865	147.8865	3.8300e-003	0.0219	154.4967
Worker	0.1233	0.0828	1.0392	3.0900e-003	0.3832	1.8700e-003	0.3851	0.1016	1.7200e-003	0.1033		312.6036	312.6036	7.8100e-003	8.2400e-003	315.2530
Total	1.3253	62.4845	19.4302	0.3059	9.8140	0.6246	10.4386	2.6883	0.5975	3.2858		33,306.06 42	33,306.06 42	1.4061	5.2363	34,901.62 80

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.3 Mass Grading - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3332	0.0000	5.3332	1.7832	0.0000	1.7832			0.0000			0.0000
Off-Road	1.1344	4.9156	46.6696	0.0925		0.1513	0.1513		0.1513	0.1513	0.0000	8,951.735 3	8,951.735 3	2.8952		9,024.114 6
Total	1.1344	4.9156	46.6696	0.0925	5.3332	0.1513	5.4845	1.7832	0.1513	1.9344	0.0000	8,951.735 3	8,951.735 3	2.8952		9,024.114 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	1.1935	62.1135	18.2710	0.3014	9.3817	0.6207	10.0025	2.5725	0.5939	3.1664		32,845.57 42	32,845.57 42	1.3945	5.2062	34,431.87 83
Vendor	8.5700e-003	0.2882	0.1200	1.3800e-003	0.0490	2.0300e-003	0.0511	0.0141	1.9400e-003	0.0161		147.8865	147.8865	3.8300e-003	0.0219	154.4967
Worker	0.1233	0.0828	1.0392	3.0900e-003	0.3832	1.8700e-003	0.3851	0.1016	1.7200e-003	0.1033		312.6036	312.6036	7.8100e-003	8.2400e-003	315.2530
Total	1.3253	62.4845	19.4302	0.3059	9.8140	0.6246	10.4386	2.6883	0.5975	3.2858		33,306.06 42	33,306.06 42	1.4061	5.2363	34,901.62 80

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.4 Road Removal/ Pipeline Install - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0106	0.0000	0.0106	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	1.0016	8.4214	12.8717	0.0211		0.4147	0.4147		0.4026	0.4026		2,017.3824	2,017.3824	0.3170		2,025.3070
Total	1.0016	8.4214	12.8717	0.0211	0.0106	0.4147	0.4254	1.3000e-003	0.4026	0.4039		2,017.3824	2,017.3824	0.3170		2,025.3070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7100e-003	0.3490	0.1027	1.6900e-003	0.0527	3.4900e-003	0.0562	0.0145	3.3400e-003	0.0178		184.5740	184.5740	7.8400e-003	0.0293	193.4882
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0657	0.0442	0.5542	1.6500e-003	0.2044	1.0000e-003	0.2054	0.0542	9.2000e-004	0.0551		166.7219	166.7219	4.1700e-003	4.3900e-003	168.1350
Total	0.0746	0.4653	0.6869	3.6800e-003	0.2694	5.0000e-003	0.2743	0.0722	4.7500e-003	0.0769		388.2676	388.2676	0.0130	0.0391	400.2473

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.4 Road Removal/ Pipeline Install - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7900e-003	0.0000	4.7900e-003	5.8000e-004	0.0000	5.8000e-004			0.0000			0.0000
Off-Road	0.2299	0.9961	14.1751	0.0211		0.0307	0.0307		0.0307	0.0307	0.0000	2,017.3824	2,017.3824	0.3170		2,025.3070
Total	0.2299	0.9961	14.1751	0.0211	4.7900e-003	0.0307	0.0354	5.8000e-004	0.0307	0.0312	0.0000	2,017.3824	2,017.3824	0.3170		2,025.3070

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7100e-003	0.3490	0.1027	1.6900e-003	0.0527	3.4900e-003	0.0562	0.0145	3.3400e-003	0.0178		184.5740	184.5740	7.8400e-003	0.0293	193.4882
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0657	0.0442	0.5542	1.6500e-003	0.2044	1.0000e-003	0.2054	0.0542	9.2000e-004	0.0551		166.7219	166.7219	4.1700e-003	4.3900e-003	168.1350
Total	0.0746	0.4653	0.6869	3.6800e-003	0.2694	5.0000e-003	0.2743	0.0722	4.7500e-003	0.0769		388.2676	388.2676	0.0130	0.0391	400.2473

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.4 Road Removal/ Pipeline Install - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0106	0.0000	0.0106	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	0.9429	7.8439	12.8705	0.0211		0.3634	0.3634		0.3526	0.3526		2,017.7313	2,017.7313	0.3150		2,025.6053
Total	0.9429	7.8439	12.8705	0.0211	0.0106	0.3634	0.3741	1.3000e-003	0.3526	0.3539		2,017.7313	2,017.7313	0.3150		2,025.6053

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.6400e-003	0.3502	0.1029	1.6600e-003	0.0527	3.4400e-003	0.0562	0.0145	3.2900e-003	0.0178		181.3703	181.3703	7.6100e-003	0.0288	190.1271
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0612	0.0391	0.5155	1.6000e-003	0.2044	9.6000e-004	0.2053	0.0542	8.8000e-004	0.0551		161.8939	161.8939	3.7700e-003	4.0700e-003	163.2001
Total	0.0700	0.4620	0.6479	3.6000e-003	0.2694	4.9000e-003	0.2742	0.0722	4.6500e-003	0.0768		379.7269	379.7269	0.0123	0.0382	391.4190

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.4 Road Removal/ Pipeline Install - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.7900e-003	0.0000	4.7900e-003	5.8000e-004	0.0000	5.8000e-004			0.0000			0.0000
Off-Road	0.2299	0.9961	14.1751	0.0211		0.0307	0.0307		0.0307	0.0307	0.0000	2,017.7313	2,017.7313	0.3150		2,025.6053
Total	0.2299	0.9961	14.1751	0.0211	4.7900e-003	0.0307	0.0354	5.8000e-004	0.0307	0.0312	0.0000	2,017.7313	2,017.7313	0.3150		2,025.6053

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.6400e-003	0.3502	0.1029	1.6600e-003	0.0527	3.4400e-003	0.0562	0.0145	3.2900e-003	0.0178		181.3703	181.3703	7.6100e-003	0.0288	190.1271
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0612	0.0391	0.5155	1.6000e-003	0.2044	9.6000e-004	0.2053	0.0542	8.8000e-004	0.0551		161.8939	161.8939	3.7700e-003	4.0700e-003	163.2001
Total	0.0700	0.4620	0.6479	3.6000e-003	0.2694	4.9000e-003	0.2742	0.0722	4.6500e-003	0.0768		379.7269	379.7269	0.0123	0.0382	391.4190

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.5 Pipeline Paving - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5164	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347		1,103.7921	1,103.7921	0.3570		1,112.7168
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5267	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347		1,103.7921	1,103.7921	0.3570		1,112.7168

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0329	0.0221	0.2771	8.2000e-004	0.1022	5.0000e-004	0.1027	0.0271	4.6000e-004	0.0276		83.3610	83.3610	2.0800e-003	2.2000e-003	84.0675
Total	0.0350	0.0942	0.3071	1.1600e-003	0.1144	1.0100e-003	0.1155	0.0306	9.5000e-004	0.0316		120.3326	120.3326	3.0400e-003	7.6700e-003	122.6916

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.5 Pipeline Paving - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.7921	1,103.7921	0.3570		1,112.7168
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1506	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.7921	1,103.7921	0.3570		1,112.7168

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0329	0.0221	0.2771	8.2000e-004	0.1022	5.0000e-004	0.1027	0.0271	4.6000e-004	0.0276		83.3610	83.3610	2.0800e-003	2.2000e-003	84.0675
Total	0.0350	0.0942	0.3071	1.1600e-003	0.1144	1.0100e-003	0.1155	0.0306	9.5000e-004	0.0316		120.3326	120.3326	3.0400e-003	7.6700e-003	122.6916

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.5 Pipeline Paving - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4941	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155		1,103.7736	1,103.7736	0.3570		1,112.6982
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5044	4.7623	7.3129	0.0114		0.2343	0.2343		0.2155	0.2155		1,103.7736	1,103.7736	0.3570		1,112.6982

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0306	0.0196	0.2577	8.0000e-004	0.1022	4.8000e-004	0.1027	0.0271	4.4000e-004	0.0275		80.9469	80.9469	1.8900e-003	2.0300e-003	81.6000
Total	0.0327	0.0923	0.2873	1.1400e-003	0.1144	9.8000e-004	0.1154	0.0306	9.2000e-004	0.0316		117.4096	117.4096	2.8200e-003	7.4200e-003	119.6919

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.5 Pipeline Paving - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.7736	1,103.7736	0.3570		1,112.6982
Paving	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1506	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.7736	1,103.7736	0.3570		1,112.6982

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0306	0.0196	0.2577	8.0000e-004	0.1022	4.8000e-004	0.1027	0.0271	4.4000e-004	0.0275		80.9469	80.9469	1.8900e-003	2.0300e-003	81.6000
Total	0.0327	0.0923	0.2873	1.1400e-003	0.1144	9.8000e-004	0.1154	0.0306	9.2000e-004	0.0316		117.4096	117.4096	2.8200e-003	7.4200e-003	119.6919

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.6 Restriping - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	1.5506	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0164	0.0110	0.1386	4.1000e-004	0.0511	2.5000e-004	0.0513	0.0136	2.3000e-004	0.0138		41.6805	41.6805	1.0400e-003	1.1000e-003	42.0337
Total	0.0186	0.0831	0.1686	7.5000e-004	0.0634	7.6000e-004	0.0641	0.0171	7.2000e-004	0.0178		78.6521	78.6521	2.0000e-003	6.5700e-003	80.6579

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.6 Restriping - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0396	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0225		375.8253
Total	1.3347	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0225		375.8253

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1400e-003	0.0721	0.0300	3.4000e-004	0.0123	5.1000e-004	0.0128	3.5300e-003	4.9000e-004	4.0200e-003		36.9716	36.9716	9.6000e-004	5.4700e-003	38.6242
Worker	0.0164	0.0110	0.1386	4.1000e-004	0.0511	2.5000e-004	0.0513	0.0136	2.3000e-004	0.0138		41.6805	41.6805	1.0400e-003	1.1000e-003	42.0337
Total	0.0186	0.0831	0.1686	7.5000e-004	0.0634	7.6000e-004	0.0641	0.0171	7.2000e-004	0.0178		78.6521	78.6521	2.0000e-003	6.5700e-003	80.6579

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.6 Restriping - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	1.5361	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0153	9.7800e-003	0.1289	4.0000e-004	0.0511	2.4000e-004	0.0513	0.0136	2.2000e-004	0.0138		40.4735	40.4735	9.4000e-004	1.0200e-003	40.8000
Total	0.0174	0.0825	0.1584	7.4000e-004	0.0634	7.4000e-004	0.0641	0.0171	7.0000e-004	0.0178		76.9362	76.9362	1.8700e-003	6.4100e-003	78.8918

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.6 Restriping - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0396	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0211		375.7923
Total	1.3347	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0211		375.7923

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0727	0.0295	3.4000e-004	0.0123	5.0000e-004	0.0128	3.5300e-003	4.8000e-004	4.0100e-003		36.4627	36.4627	9.3000e-004	5.3900e-003	38.0918
Worker	0.0153	9.7800e-003	0.1289	4.0000e-004	0.0511	2.4000e-004	0.0513	0.0136	2.2000e-004	0.0138		40.4735	40.4735	9.4000e-004	1.0200e-003	40.8000
Total	0.0174	0.0825	0.1584	7.4000e-004	0.0634	7.4000e-004	0.0641	0.0171	7.0000e-004	0.0178		76.9362	76.9362	1.8700e-003	6.4100e-003	78.8918

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.7 Building Construction - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767		6,611.0338	6,611.0338	1.5269		6,649.2069
Total	3.7346	34.5374	44.4208	0.0695		1.6708	1.6708		1.5767	1.5767		6,611.0338	6,611.0338	1.5269		6,649.2069

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9472	31.8502	13.2618	0.1524	5.4184	0.2241	5.6425	1.5603	0.2144	1.7747		16,341.4574	16,341.4574	0.4227	2.4156	17,071.8842
Worker	3.0813	2.0707	25.9794	0.0773	9.5798	0.0467	9.6265	2.5405	0.0430	2.5834		7,815.0900	7,815.0900	0.1952	0.2059	7,881.3256
Total	4.0285	33.9209	39.2412	0.2297	14.9981	0.2708	15.2689	4.1008	0.2574	4.3581		24,156.5474	24,156.5474	0.6180	2.6215	24,953.2097

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.7 Building Construction - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2901	7.2322	47.2407	0.0695		0.2265	0.2265		0.2245	0.2245	0.0000	6,611.0338	6,611.0338	1.5269		6,649.2069
Total	1.2901	7.2322	47.2407	0.0695		0.2265	0.2265		0.2245	0.2245	0.0000	6,611.0338	6,611.0338	1.5269		6,649.2069

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9472	31.8502	13.2618	0.1524	5.4184	0.2241	5.6425	1.5603	0.2144	1.7747		16,341.4574	16,341.4574	0.4227	2.4156	17,071.8842
Worker	3.0813	2.0707	25.9794	0.0773	9.5798	0.0467	9.6265	2.5405	0.0430	2.5834		7,815.0900	7,815.0900	0.1952	0.2059	7,881.3256
Total	4.0285	33.9209	39.2412	0.2297	14.9981	0.2708	15.2689	4.1008	0.2574	4.3581		24,156.5474	24,156.5474	0.6180	2.6215	24,953.2097

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.7 Building Construction - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767		6,612.5216	6,612.5216	1.5179		6,650.4693
Total	3.5008	32.4325	44.3210	0.0696		1.4592	1.4592		1.3767	1.3767		6,612.5216	6,612.5216	1.5179		6,650.4693

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9239	32.1241	13.0476	0.1503	5.4183	0.2206	5.6389	1.5603	0.2111	1.7714		16,116.5157	16,116.5157	0.4098	2.3820	16,836.5853
Worker	2.8700	1.8347	24.1617	0.0751	9.5798	0.0448	9.6246	2.5405	0.0412	2.5817		7,588.7749	7,588.7749	0.1768	0.1906	7,650.0024
Total	3.7938	33.9587	37.2093	0.2254	14.9981	0.2654	15.2635	4.1008	0.2523	4.3530		23,705.2906	23,705.2906	0.5866	2.5726	24,486.5877

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.7 Building Construction - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2528	7.1343	47.2142	0.0696		0.2109	0.2109		0.2090	0.2090	0.0000	6,612.5216	6,612.5216	1.5179		6,650.4693
Total	1.2528	7.1343	47.2142	0.0696		0.2109	0.2109		0.2090	0.2090	0.0000	6,612.5216	6,612.5216	1.5179		6,650.4693

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.9239	32.1241	13.0476	0.1503	5.4183	0.2206	5.6389	1.5603	0.2111	1.7714		16,116.5157	16,116.5157	0.4098	2.3820	16,836.5853
Worker	2.8700	1.8347	24.1617	0.0751	9.5798	0.0448	9.6246	2.5405	0.0412	2.5817		7,588.7749	7,588.7749	0.1768	0.1906	7,650.0024
Total	3.7938	33.9587	37.2093	0.2254	14.9981	0.2654	15.2635	4.1008	0.2523	4.3530		23,705.2906	23,705.2906	0.5866	2.5726	24,486.5877

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.8 Architectural Coating - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	47.0207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6202	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016		1,210.2388	1,210.2388	0.1659		1,214.3858
Total	47.6408	4.8405	7.8892	0.0127		0.2033	0.2033		0.2016	0.2016		1,210.2388	1,210.2388	0.1659		1,214.3858

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8801	0.5626	7.4096	0.0230	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,327.2243	2,327.2243	0.0542	0.0585	2,346.0007
Total	0.8801	0.5626	7.4096	0.0230	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,327.2243	2,327.2243	0.0542	0.0585	2,346.0007

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.8 Architectural Coating - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	47.0207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1670	1.5704	7.9560	0.0127		0.0324	0.0324		0.0308	0.0308	0.0000	1,210.2388	1,210.2388	0.1659		1,214.3858
Total	47.1877	1.5704	7.9560	0.0127		0.0324	0.0324		0.0308	0.0308	0.0000	1,210.2388	1,210.2388	0.1659		1,214.3858

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.8801	0.5626	7.4096	0.0230	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,327.2243	2,327.2243	0.0542	0.0585	2,346.0007
Total	0.8801	0.5626	7.4096	0.0230	2.9378	0.0137	2.9515	0.7791	0.0126	0.7917		2,327.2243	2,327.2243	0.0542	0.0585	2,346.0007

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.9 Testing - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107		623.0346	623.0346	0.0252		623.6650
Total	0.2850	2.5446	3.6639	6.5800e-003		0.1107	0.1107		0.1107	0.1107		623.0346	623.0346	0.0252		623.6650

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0230	0.0147	0.1933	6.0000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		60.7102	60.7102	1.4100e-003	1.5300e-003	61.2000
Total	0.0230	0.0147	0.1933	6.0000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		60.7102	60.7102	1.4100e-003	1.5300e-003	61.2000

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.9 Testing - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0658	0.2850	4.0564	6.5800e-003		8.7700e-003	8.7700e-003		8.7700e-003	8.7700e-003	0.0000	623.0346	623.0346	0.0252		623.6650
Total	0.0658	0.2850	4.0564	6.5800e-003		8.7700e-003	8.7700e-003		8.7700e-003	8.7700e-003	0.0000	623.0346	623.0346	0.0252		623.6650

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0230	0.0147	0.1933	6.0000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		60.7102	60.7102	1.4100e-003	1.5300e-003	61.2000
Total	0.0230	0.0147	0.1933	6.0000e-004	0.0766	3.6000e-004	0.0770	0.0203	3.3000e-004	0.0207		60.7102	60.7102	1.4100e-003	1.5300e-003	61.2000

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.10 Fine Grading - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					9.5549	0.0000	9.5549	3.7070	0.0000	3.7070			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.5549	1.3354	10.8903	3.7070	1.2286	4.9355		6,009.7487	6,009.7487	1.9437		6,058.3405

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7878	41.5355	12.2072	0.1974	6.2528	0.4083	6.6611	1.7146	0.3906	2.1052		21,511.6165	21,511.6165	0.9024	3.4096	22,550.2240
Vendor	8.3600e-003	0.2907	0.1181	1.3600e-003	0.0490	2.0000e-003	0.0510	0.0141	1.9100e-003	0.0160		145.8508	145.8508	3.7100e-003	0.0216	152.3673
Worker	0.0765	0.0489	0.6443	2.0000e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		202.3673	202.3673	4.7100e-003	5.0800e-003	204.0001
Total	0.8727	41.8752	12.9696	0.2008	6.5573	0.4115	6.9688	1.7964	0.3936	2.1900		21,859.8346	21,859.8346	0.9108	3.4362	22,906.5913

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.10 Fine Grading - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.2997	0.0000	4.2997	1.6681	0.0000	1.6681			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	0.7616	3.3000	32.9991	0.0621	4.2997	0.1015	4.4012	1.6681	0.1015	1.7697	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7878	41.5355	12.2072	0.1974	6.2528	0.4083	6.6611	1.7146	0.3906	2.1052		21,511.6165	21,511.6165	0.9024	3.4096	22,550.2240
Vendor	8.3600e-003	0.2907	0.1181	1.3600e-003	0.0490	2.0000e-003	0.0510	0.0141	1.9100e-003	0.0160		145.8508	145.8508	3.7100e-003	0.0216	152.3673
Worker	0.0765	0.0489	0.6443	2.0000e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		202.3673	202.3673	4.7100e-003	5.0800e-003	204.0001
Total	0.8727	41.8752	12.9696	0.2008	6.5573	0.4115	6.9688	1.7964	0.3936	2.1900		21,859.8346	21,859.8346	0.9108	3.4362	22,906.5913

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.11 Concrete Laydown - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2204	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548		2,069.4588	2,069.4588	0.6693		2,086.1914
Paving	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2488	13.2417	14.9986	0.0214		0.7118	0.7118		0.6548	0.6548		2,069.4588	2,069.4588	0.6693		2,086.1914

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4180	14.5358	5.9039	0.0680	2.4517	0.0998	2.5516	0.7060	0.0955	0.8015		7,292.5410	7,292.5410	0.1854	1.0778	7,618.3644
Worker	0.0765	0.0489	0.6443	2.0000e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		202.3673	202.3673	4.7100e-003	5.0800e-003	204.0001
Total	0.4946	14.5847	6.5482	0.0700	2.7072	0.1010	2.8082	0.7738	0.0966	0.8704		7,494.9084	7,494.9084	0.1901	1.0829	7,822.3645

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert County, Winter

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

3.11 Concrete Laydown - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5714	4.3323	16.0541	0.0214		0.2553	0.2553		0.2370	0.2370	0.0000	2,069.4588	2,069.4588	0.6693		2,086.1914
Paving	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5998	4.3323	16.0541	0.0214		0.2553	0.2553		0.2370	0.2370	0.0000	2,069.4588	2,069.4588	0.6693		2,086.1914

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4180	14.5358	5.9039	0.0680	2.4517	0.0998	2.5516	0.7060	0.0955	0.8015		7,292.5410	7,292.5410	0.1854	1.0778	7,618.3644
Worker	0.0765	0.0489	0.6443	2.0000e-003	0.2555	1.1900e-003	0.2567	0.0678	1.1000e-003	0.0688		202.3673	202.3673	4.7100e-003	5.0800e-003	204.0001
Total	0.4946	14.5847	6.5482	0.0700	2.7072	0.1010	2.8082	0.7738	0.0966	0.8704		7,494.9084	7,494.9084	0.1901	1.0829	7,822.3645

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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	9.7127	247.6047	148.8060	1.6082	90.1921	2.6363	92.8284	24.7427	2.5158	27.2584		171,137.1026	171,137.1026	5.1055	21.0802	177,546.6411
Unmitigated	9.7127	247.6047	148.8060	1.6082	90.1921	2.6363	92.8284	24.7427	2.5158	27.2584		171,137.1026	171,137.1026	5.1055	21.0802	177,546.6411

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	1,473.34	1,473.34	1473.34	21,451,860	21,451,860
Unrefrigerated Warehouse-No Rail	3,382.35	3,382.35	3382.35	18,098,297	18,098,297
Total	4,855.70	4,855.70	4,855.70	39,550,156	39,550,156

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	40.00	0.00	0.00	100.00	100	0	0
Unrefrigerated Warehouse-No	14.70	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.165262	0.045632	0.183539	0.605567	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.600758	0.062281	0.191226	0.145734	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482
NaturalGas Unmitigated	0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53541.3	0.5774	5.2491	4.4093	0.0315		0.3989	0.3989		0.3989	0.3989		6,298.9716	6,298.9716	0.1207	0.1155	6,336.4032
Unrefrigerated Warehouse-No Rail	11788.7	0.1271	1.1558	0.9708	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,386.9032	1,386.9032	0.0266	0.0254	1,395.1449
Total		0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53.5413	0.5774	5.2491	4.4093	0.0315		0.3989	0.3989		0.3989	0.3989		6,298.9716	6,298.9716	0.1207	0.1155	6,336.4032
Unrefrigerated Warehouse-No Rail	11.7887	0.1271	1.1558	0.9708	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,386.9032	1,386.9032	0.0266	0.0254	1,395.1449
Total		0.7045	6.4049	5.3801	0.0384		0.4868	0.4868		0.4868	0.4868		7,685.8748	7,685.8748	0.1473	0.1409	7,731.5482

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw

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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	lb/day										lb/day					
Mitigated	58.2868	1.3200e-003	0.1525	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		0.3045	0.3045	6.2000e-004		0.3201
Unmitigated	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017

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	3.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.8691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0242	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017
Total	58.3007	2.3800e-003	0.2629	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5650	0.5650	1.4700e-003		0.6017

Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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	3.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.8691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0103	1.3200e-003	0.1525	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		0.3045	0.3045	6.2000e-004		0.3201
Total	58.2868	1.3200e-003	0.1525	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		0.3045	0.3045	6.2000e-004		0.3201

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	1	50	500	1	Diesel

Boilers

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

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

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	3.3721	0.9921	8.5980	0.0162		0.0496	0.0496		0.0496	0.0496		1,725.0290	1,725.0290	0.2419		1,731.0753
Total	3.3721	0.9921	8.5980	0.0162		0.0496	0.0496		0.0496	0.0496		1,725.0290	1,725.0290	0.2419		1,731.0753

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

**Apple Valley 143 - Mitigated
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	377.78	1000sqft	19.61	377,780.00	0
Unrefrigerated Warehouse-No Rail	2,140.73	1000sqft	61.84	2,140,730.00	0
Other Asphalt Surfaces	0.65	Acre	0.65	28,314.00	0
Other Non-Asphalt Surfaces	45.68	Acre	45.68	1,989,820.80	0
Other Non-Asphalt Surfaces	16.73	Acre	16.73	728,758.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10	Operational Year	2025		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Apple Valley 143 Project

Land Use - On-Site Land uses: High Cube Cold Storage (Refrigerated Warehouse), High Cube Non-Cold Storage (Unrefrigerated Warehouse), and Parking Lots/Driveways. Off-site 0.65 acres of asphalt surfaces for repave

Construction Phase - Adjusted schedule based on applicant input and representative water pipeline project experience

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Adjusted based on applicant input - Laser Screeds (x2) modeled as "Other Construction Equipment" and Concrete Finishing Machines (x2) modeled as "Surfacing Equipment"

Off-road Equipment - Adjusted based on applicant input

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

Off-road Equipment -

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Off-road Equipment - Adjusted based on applicant input

Off-road Equipment - Offsite pipeline construction equipment based on a representative water pipeline project, scaled to the length of the proposed pipeline

Trips and VMT - Trips adjusted per applicant input, with 2 water trucks added during site prep and grading. Offsite water pipeline construction vehicles based on a representative water pipeline project, scaled to the length of the proposed pipeline

Grading - Default onsite acres. Offsite grading input as 0.65 acres. Total of 150,000 CY assumed export during onsite mass/fine grading and 2,288 CY assumed export during offsite grading

Architectural Coating - Default emission factors. Adjusted restriping for offsite repavement to anticipated asphalt area. Mitigation: 10 g/L assumed for building coatings

Vehicle Trips - Trip generation based on traffic report, with Refrigerated Warehouse used to estimate trucks and Unrefrigerated Warehouse used to estimate employee trips. Truck triplength of 40 miles and worker triplength of 14.7 miles assumed

Area Coating - Adjusted VOC content per MDAQMD Rule 1113.

Water And Wastewater - Adjusted water demand based on Water Supply Assessment

Construction Off-road Equipment Mitigation - MDAQMD Rule 403: compliance assumed with watering site 2x per day and limiting vehicle speed to 15 mph on unpaved areas. Mitigation: Tier 4F assumed for equipment >75hp

Area Mitigation - Mitigation: all electric landscaping equipment

Energy Mitigation - Mitigation: on-site solar generation to meet at least 75% of the project's total operational energy requirements

Operational Off-Road Equipment - Mitigation: 100% offroad equipment for operations (forklifts/yard trucks) will be electric. GHGs from electric forklifts were estimated outside of CalEEMod.

Fleet Mix - Adjusted fleetmix to match traffic report with Refrigerated Warehouse used to model trucks and Unrefrigerated Warehouse used to model workers

Stationary Sources - Emergency Generators and Fire Pumps - 1x 500hp diesel emergency generator assumed per building. Routine testing of 1 hour per day, 50 hours per year

Stationary Sources - Emergency Generators and Fire Pumps EF - Tier 4 Final emergency generators

Water Mitigation - Mitigation: Water Conservation Strategy to reduce indoor and outdoor water by 20%

Waste Mitigation - Mitigation: 75% waste diversion program

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,259,255.00	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

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,777,765.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	104,980.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	0.00
tblArchitecturalCoating	ConstArea_Parking	164,814.00	47,500.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

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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	15.00
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
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	220.00	170.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	5.00
tblConstructionPhase	NumDays	3,100.00	199.00
tblConstructionPhase	NumDays	310.00	30.00
tblConstructionPhase	NumDays	310.00	95.00
tblConstructionPhase	NumDays	310.00	15.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	220.00	165.00
tblConstructionPhase	NumDays	120.00	15.00
tblFleetMix	HHD	0.02	0.61
tblFleetMix	HHD	0.02	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

tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.60
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.0090e-003	0.05
tblFleetMix	LHD2	7.0090e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.15
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MH	4.6060e-003	0.00
tblFleetMix	MHD	0.01	0.18
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	OBUS	5.5200e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	SBUS	9.5600e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblFleetMix	UBUS	2.4800e-004	0.00
tblGrading	AcresOfGrading	0.00	0.65
tblGrading	MaterialExported	0.00	112,504.00
tblGrading	MaterialExported	0.00	2,288.00
tblGrading	MaterialExported	0.00	37,496.00
tblLandUse	LotAcreage	8.67	19.61

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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	49.14	61.84
tblOffRoadEquipment	HorsePower	172.00	65.00
tblOffRoadEquipment	HorsePower	263.00	107.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	NOX_EF	2.85	0.30
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblTripsAndVMT	HaulingTripNumber	0.00	24.00

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

tbITripsAndVMT	HaulingTripNumber	14,063.00	16,072.00
tbITripsAndVMT	HaulingTripNumber	4,687.00	5,356.00
tbITripsAndVMT	VendorTripNumber	0.00	4.00
tbITripsAndVMT	VendorTripNumber	0.00	400.00
tbITripsAndVMT	VendorTripNumber	0.00	8.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	863.00	884.00
tbITripsAndVMT	VendorTripNumber	0.00	8.00
tbITripsAndVMT	WorkerTripNumber	5.00	20.00
tbITripsAndVMT	WorkerTripNumber	25.00	30.00
tbITripsAndVMT	WorkerTripNumber	10.00	16.00
tbITripsAndVMT	WorkerTripNumber	442.00	4.00
tbITripsAndVMT	WorkerTripNumber	2,211.00	750.00
tbITripsAndVMT	WorkerTripNumber	442.00	230.00
tbITripsAndVMT	WorkerTripNumber	442.00	6.00
tbIVehicleTrips	CC_TL	6.60	0.00
tbIVehicleTrips	CC_TL	6.60	0.00
tbIVehicleTrips	CNW_TL	6.60	40.00
tbIVehicleTrips	CNW_TL	6.60	0.00
tbIVehicleTrips	CNW_TTP	41.00	100.00
tbIVehicleTrips	CNW_TTP	41.00	0.00
tbIVehicleTrips	CW_TL	14.70	0.00
tbIVehicleTrips	CW_TTP	59.00	0.00
tbIVehicleTrips	CW_TTP	59.00	100.00
tbIVehicleTrips	DV_TP	5.00	0.00
tbIVehicleTrips	DV_TP	5.00	0.00
tbIVehicleTrips	PB_TP	3.00	0.00

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tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.12	3.90
tblVehicleTrips	ST_TR	1.74	1.58
tblVehicleTrips	SU_TR	2.12	3.90
tblVehicleTrips	SU_TR	1.74	1.58
tblVehicleTrips	WD_TR	2.12	3.90
tblVehicleTrips	WD_TR	1.74	1.58
tblWater	IndoorWaterUseRate	87,361,625.00	1,611,908.59
tblWater	IndoorWaterUseRate	495,043,812.50	9,134,049.12

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					
2023	0.2435	2.7853	2.2927	9.9900e-003	0.4860	0.0786	0.5646	0.1432	0.0737	0.2169	0.0000	944.6208	944.6208	0.0944	0.0963	975.6709
2024	2.3311	8.1177	9.7927	0.0340	1.6232	0.2277	1.8509	0.4529	0.2148	0.6678	0.0000	3,170.9809	3,170.9809	0.2491	0.2653	3,256.2544
Maximum	2.3311	8.1177	9.7927	0.0340	1.6232	0.2277	1.8509	0.4529	0.2148	0.6678	0.0000	3,170.9809	3,170.9809	0.2491	0.2653	3,256.2544

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					
2023	0.1298	1.4844	2.4844	9.9900e-003	0.3858	0.0181	0.4039	0.1102	0.0175	0.1277	0.0000	944.6204	944.6204	0.0944	0.0963	975.6706
2024	2.0249	4.7406	10.2431	0.0340	1.5835	0.0610	1.6445	0.4376	0.0588	0.4964	0.0000	3,170.9799	3,170.9799	0.2491	0.2653	3,256.2535
Maximum	2.0249	4.7406	10.2431	0.0340	1.5835	0.0610	1.6445	0.4376	0.0588	0.4964	0.0000	3,170.9799	3,170.9799	0.2491	0.2653	3,256.2535

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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
Percent Reduction	16.30	42.91	-5.31	0.00	6.63	74.17	15.20	8.10	73.56	29.45	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	10-1-2023	12-31-2023	3.0849	1.6472
2	1-1-2024	3-31-2024	2.9156	1.6257
3	4-1-2024	6-30-2024	2.9254	1.8251
4	7-1-2024	9-30-2024	3.8451	2.7732
		Highest	3.8451	2.7732

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	10.6376	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491
Energy	0.1286	1.1689	0.9819	7.0100e-003		0.0888	0.0888		0.0888	0.0888	0.0000	4,822.4527	4,822.4527	0.3240	0.0597	4,848.3281
Mobile	1.7743	45.5110	27.7167	0.2933	16.1285	0.4791	16.6075	4.4328	0.4572	4.8900	0.0000	28,308.2466	28,308.2466	0.8441	3.4796	29,366.2685
Stationary	0.0843	0.0248	0.2150	4.1000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	39.1230	39.1230	5.4900e-003	0.0000	39.2601
Waste						0.0000	0.0000		0.0000	0.0000	480.5608	0.0000	480.5608	28.4003	0.0000	1,190.5691
Water						0.0000	0.0000		0.0000	0.0000	3.4092	24.8147	28.2239	0.3523	8.5200e-003	39.5697
Total	12.6248	46.7049	28.9372	0.3007	16.1285	0.5692	16.6977	4.4328	0.5473	4.9802	483.9700	33,194.6832	33,678.6532	29.9263	3.5478	35,484.0447

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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	10.6364	1.2000e-004	0.0137	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0249	0.0249	5.0000e-005	0.0000	0.0261
Energy	0.1286	1.1689	0.9819	7.0100e-003		0.0888	0.0888		0.0888	0.0888	0.0000	2,159.9753	2,159.9753	0.0993	0.0324	2,172.1154
Mobile	1.7743	45.5110	27.7167	0.2933	16.1285	0.4791	16.6075	4.4328	0.4572	4.8900	0.0000	28,308.2466	28,308.2466	0.8441	3.4796	29,366.2685
Stationary	0.0843	0.0248	0.2150	4.1000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	39.1230	39.1230	5.4900e-003	0.0000	39.2601
Waste						0.0000	0.0000		0.0000	0.0000	120.1402	0.0000	120.1402	7.1001	0.0000	297.6423
Water						0.0000	0.0000		0.0000	0.0000	2.7274	19.8518	22.5792	0.2818	6.8200e-003	31.6558
Total	12.6236	46.7048	28.9272	0.3007	16.1285	0.5692	16.6976	4.4328	0.5473	4.9801	122.8676	30,527.2215	30,650.0891	8.3308	3.5188	31,906.9682

	ROG	NOx	CO	SO2	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	0.01	0.00	0.03	0.00	0.00	0.01	0.00	0.00	0.01	0.00	74.61	8.04	8.99	72.16	0.82	10.08

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 - Onsite	Site Preparation	10/1/2023	10/20/2023	5	15	
2	Mass Grading - Onsite	Grading	10/21/2023	12/1/2023	5	30	

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3	Road Removal/ Pipeline Install - Offsite	Grading	11/1/2023	3/12/2024	5	95
4	Pipeline Paving - Offsite	Paving	11/1/2023	6/18/2024	5	165
5	Restriping - Offsite	Architectural Coating	11/1/2023	6/25/2024	5	170
6	Building Construction - Onsite	Building Construction	12/2/2023	9/5/2024	5	199
7	Architectural Coating - Onsite	Architectural Coating	6/14/2024	9/5/2024	5	60
8	Testing - Offsite	Architectural Coating	6/26/2024	7/2/2024	5	5
9	Fine Grading - Onsite	Grading	8/16/2024	9/5/2024	5	15
10	Concrete Laydown - Onsite	Paving	9/6/2024	11/28/2024	5	60

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 150

Acres of Paving: 63.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 47,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation - Onsite	Crawler Tractors	1	8.00	212	0.43
Site Preparation - Onsite	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation - Onsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Mass Grading - Onsite	Excavators	2	8.00	158	0.38
Mass Grading - Onsite	Graders	1	8.00	187	0.41
Mass Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Mass Grading - Onsite	Scrapers	4	8.00	367	0.48
Mass Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Road Removal/ Pipeline Install - Offsite	Concrete/Industrial Saws	1	8.00	81	0.73
Road Removal/ Pipeline Install - Offsite	Excavators	1	8.00	158	0.38
Road Removal/ Pipeline Install - Offsite	Graders	0	8.00	187	0.41
Road Removal/ Pipeline Install - Offsite	Pumps	1	8.00	84	0.74

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Road Removal/ Pipeline Install - Offsite	Rubber Tired Dozers	0	8.00	247	0.40
Road Removal/ Pipeline Install - Offsite	Scrapers	0	8.00	367	0.48
Road Removal/ Pipeline Install - Offsite	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipeline Paving - Offsite	Pavers	1	8.00	130	0.42
Pipeline Paving - Offsite	Paving Equipment	1	8.00	132	0.36
Pipeline Paving - Offsite	Rollers	1	8.00	80	0.38
Restriping - Offsite	Air Compressors	1	8.00	78	0.48
Building Construction - Onsite	Aerial Lifts	3	7.00	63	0.31
Building Construction - Onsite	Cranes	1	7.00	231	0.29
Building Construction - Onsite	Forklifts	7	8.00	89	0.20
Building Construction - Onsite	Generator Sets	3	8.00	84	0.74
Building Construction - Onsite	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction - Onsite	Welders	2	8.00	46	0.45
Architectural Coating - Onsite	Aerial Lifts	3	6.00	63	0.31
Architectural Coating - Onsite	Air Compressors	3	6.00	78	0.48
Testing - Offsite	Air Compressors	0	6.00	78	0.48
Testing - Offsite	Generator Sets	1	8.00	84	0.74
Fine Grading - Onsite	Excavators	2	8.00	158	0.38
Fine Grading - Onsite	Graders	1	8.00	187	0.41
Fine Grading - Onsite	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading - Onsite	Scrapers	2	8.00	367	0.48
Fine Grading - Onsite	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Concrete Laydown - Onsite	Other Construction Equipment	2	8.00	65	0.42
Concrete Laydown - Onsite	Pavers	0	8.00	130	0.42
Concrete Laydown - Onsite	Paving Equipment	0	8.00	132	0.36
Concrete Laydown - Onsite	Rollers	0	8.00	80	0.38
Concrete Laydown - Onsite	Surfacing Equipment	6	8.00	107	0.30

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
Site Preparation - Onsite	2	20.00	4.00	24.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Mass Grading - Onsite	10	30.00	8.00	16,072.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Road Removal/ Pipeline Install - Offsite	4	16.00	2.00	286.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Paving - Offsite	3	8.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restriping - Offsite	1	4.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Onsite	25	750.00	884.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Onsite	6	230.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Testing - Offsite	1	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading - Onsite	8	20.00	8.00	5,356.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Concrete Laydown - Onsite	8	20.00	400.00	0.00	16.80	6.60	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

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3.2 Site Preparation - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9800e-003	0.0000	3.9800e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4700e-003	0.0500	0.0336	8.0000e-005		2.0600e-003	2.0600e-003		1.8900e-003	1.8900e-003	0.0000	7.2111	7.2111	2.3300e-003	0.0000	7.2694
Total	4.4700e-003	0.0500	0.0336	8.0000e-005	3.9800e-003	2.0600e-003	6.0400e-003	4.3000e-004	1.8900e-003	2.3200e-003	0.0000	7.2111	7.2111	2.3300e-003	0.0000	7.2694

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.4000e-003	4.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.2000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6669	0.6669	3.0000e-005	1.1000e-004	0.6991
Vendor	3.0000e-005	1.0800e-003	4.4000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5024	0.5024	1.0000e-005	7.0000e-005	0.5248
Worker	5.7000e-004	4.3000e-004	5.4500e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4461	1.4461	4.0000e-005	4.0000e-005	1.4585
Total	6.3000e-004	2.9100e-003	6.2900e-003	4.0000e-005	2.2700e-003	3.0000e-005	2.3000e-003	6.1000e-004	3.0000e-005	6.4000e-004	0.0000	2.6154	2.6154	8.0000e-005	2.2000e-004	2.6824

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3.2 Site Preparation - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7900e-003	0.0000	1.7900e-003	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0100e-003	4.3700e-003	0.0441	8.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	7.2111	7.2111	2.3300e-003	0.0000	7.2694
Total	1.0100e-003	4.3700e-003	0.0441	8.0000e-005	1.7900e-003	1.3000e-004	1.9200e-003	1.9000e-004	1.3000e-004	3.2000e-004	0.0000	7.2111	7.2111	2.3300e-003	0.0000	7.2694

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.4000e-003	4.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.2000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6669	0.6669	3.0000e-005	1.1000e-004	0.6991
Vendor	3.0000e-005	1.0800e-003	4.4000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5024	0.5024	1.0000e-005	7.0000e-005	0.5248
Worker	5.7000e-004	4.3000e-004	5.4500e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4461	1.4461	4.0000e-005	4.0000e-005	1.4585
Total	6.3000e-004	2.9100e-003	6.2900e-003	4.0000e-005	2.2700e-003	3.0000e-005	2.3000e-003	6.1000e-004	3.0000e-005	6.4000e-004	0.0000	2.6154	2.6154	8.0000e-005	2.2000e-004	2.6824

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3.3 Mass Grading - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1778	0.0000	0.1778	0.0594	0.0000	0.0594	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0734	0.7662	0.6049	1.3900e-003		0.0311	0.0311		0.0286	0.0286	0.0000	121.8132	121.8132	0.0394	0.0000	122.7981
Total	0.0734	0.7662	0.6049	1.3900e-003	0.1778	0.0311	0.2089	0.0594	0.0286	0.0881	0.0000	121.8132	121.8132	0.0394	0.0000	122.7981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0188	0.9346	0.2712	4.5200e-003	0.1384	9.3000e-003	0.1477	0.0380	8.9000e-003	0.0469	0.0000	446.5644	446.5644	0.0190	0.0708	468.1332
Vendor	1.3000e-004	4.3000e-003	1.7700e-003	2.0000e-005	7.2000e-004	3.0000e-005	7.5000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	2.0095	2.0095	5.0000e-005	3.0000e-004	2.0993
Worker	1.7100e-003	1.3000e-003	0.0164	5.0000e-005	5.6400e-003	3.0000e-005	5.6700e-003	1.5000e-003	3.0000e-005	1.5200e-003	0.0000	4.3384	4.3384	1.1000e-004	1.2000e-004	4.3756
Total	0.0206	0.9402	0.2893	4.5900e-003	0.1448	9.3600e-003	0.1541	0.0397	8.9600e-003	0.0487	0.0000	452.9122	452.9122	0.0192	0.0712	474.6081

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3.3 Mass Grading - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0800	0.0000	0.0800	0.0268	0.0000	0.0268	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.0737	0.7000	1.3900e-003		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	121.8130	121.8130	0.0394	0.0000	122.7979
Total	0.0170	0.0737	0.7000	1.3900e-003	0.0800	2.2700e-003	0.0823	0.0268	2.2700e-003	0.0290	0.0000	121.8130	121.8130	0.0394	0.0000	122.7979

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0188	0.9346	0.2712	4.5200e-003	0.1384	9.3000e-003	0.1477	0.0380	8.9000e-003	0.0469	0.0000	446.5644	446.5644	0.0190	0.0708	468.1332
Vendor	1.3000e-004	4.3000e-003	1.7700e-003	2.0000e-005	7.2000e-004	3.0000e-005	7.5000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	2.0095	2.0095	5.0000e-005	3.0000e-004	2.0993
Worker	1.7100e-003	1.3000e-003	0.0164	5.0000e-005	5.6400e-003	3.0000e-005	5.6700e-003	1.5000e-003	3.0000e-005	1.5200e-003	0.0000	4.3384	4.3384	1.1000e-004	1.2000e-004	4.3756
Total	0.0206	0.9402	0.2893	4.5900e-003	0.1448	9.3600e-003	0.1541	0.0397	8.9600e-003	0.0487	0.0000	452.9122	452.9122	0.0192	0.0712	474.6081

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3.4 Road Removal/ Pipeline Install - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.1000e-004	0.0000	5.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0215	0.1811	0.2767	4.5000e-004		8.9200e-003	8.9200e-003		8.6600e-003	8.6600e-003	0.0000	39.3480	39.3480	6.1800e-003	0.0000	39.5025
Total	0.0215	0.1811	0.2767	4.5000e-004	5.1000e-004	8.9200e-003	9.4300e-003	6.0000e-005	8.6600e-003	8.7200e-003	0.0000	39.3480	39.3480	6.1800e-003	0.0000	39.5025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5000e-004	7.5300e-003	2.1800e-003	4.0000e-005	1.1100e-003	7.0000e-005	1.1900e-003	3.1000e-004	7.0000e-005	3.8000e-004	0.0000	3.5969	3.5969	1.5000e-004	5.7000e-004	3.7706
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	1.3000e-003	1.0000e-003	0.0125	4.0000e-005	4.3100e-003	2.0000e-005	4.3300e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3165	3.3165	8.0000e-005	9.0000e-005	3.3449
Total	1.5000e-003	0.0101	0.0153	9.0000e-005	5.6800e-003	1.0000e-004	5.7900e-003	1.5200e-003	1.0000e-004	1.6300e-003	0.0000	7.6334	7.6334	2.5000e-004	7.7000e-004	7.8678

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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 Road Removal/ Pipeline Install - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3000e-004	0.0000	2.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9400e-003	0.0214	0.3048	4.5000e-004		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	39.3479	39.3479	6.1800e-003	0.0000	39.5025
Total	4.9400e-003	0.0214	0.3048	4.5000e-004	2.3000e-004	6.6000e-004	8.9000e-004	3.0000e-005	6.6000e-004	6.9000e-004	0.0000	39.3479	39.3479	6.1800e-003	0.0000	39.5025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5000e-004	7.5300e-003	2.1800e-003	4.0000e-005	1.1100e-003	7.0000e-005	1.1900e-003	3.1000e-004	7.0000e-005	3.8000e-004	0.0000	3.5969	3.5969	1.5000e-004	5.7000e-004	3.7706
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	1.3000e-003	1.0000e-003	0.0125	4.0000e-005	4.3100e-003	2.0000e-005	4.3300e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3165	3.3165	8.0000e-005	9.0000e-005	3.3449
Total	1.5000e-003	0.0101	0.0153	9.0000e-005	5.6800e-003	1.0000e-004	5.7900e-003	1.5200e-003	1.0000e-004	1.6300e-003	0.0000	7.6334	7.6334	2.5000e-004	7.7000e-004	7.8678

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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 Road Removal/ Pipeline Install - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.1000e-004	0.0000	5.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0245	0.2039	0.3346	5.5000e-004		9.4500e-003	9.4500e-003		9.1700e-003	9.1700e-003	0.0000	47.5918	47.5918	7.4300e-003	0.0000	47.7776
Total	0.0245	0.2039	0.3346	5.5000e-004	5.1000e-004	9.4500e-003	9.9600e-003	6.0000e-005	9.1700e-003	9.2300e-003	0.0000	47.5918	47.5918	7.4300e-003	0.0000	47.7776

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8000e-004	9.1300e-003	2.6500e-003	4.0000e-005	1.3500e-003	9.0000e-005	1.4400e-003	3.7000e-004	9.0000e-005	4.6000e-004	0.0000	4.2742	4.2742	1.8000e-004	6.8000e-004	4.4806
Vendor	6.0000e-005	1.8800e-003	7.6000e-004	1.0000e-005	3.1000e-004	1.0000e-005	3.3000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8588	0.8588	2.0000e-005	1.3000e-004	0.8972
Worker	1.4700e-003	1.0700e-003	0.0141	4.0000e-005	5.2100e-003	2.0000e-005	5.2400e-003	1.3800e-003	2.0000e-005	1.4100e-003	0.0000	3.8943	3.8943	9.0000e-005	1.0000e-004	3.9261
Total	1.7100e-003	0.0121	0.0175	9.0000e-005	6.8700e-003	1.2000e-004	7.0100e-003	1.8400e-003	1.2000e-004	1.9700e-003	0.0000	9.0272	9.0272	2.9000e-004	9.1000e-004	9.3038

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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 Road Removal/ Pipeline Install - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3000e-004	0.0000	2.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9800e-003	0.0259	0.3686	5.5000e-004		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	47.5918	47.5918	7.4300e-003	0.0000	47.7775
Total	5.9800e-003	0.0259	0.3686	5.5000e-004	2.3000e-004	8.0000e-004	1.0300e-003	3.0000e-005	8.0000e-004	8.3000e-004	0.0000	47.5918	47.5918	7.4300e-003	0.0000	47.7775

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8000e-004	9.1300e-003	2.6500e-003	4.0000e-005	1.3500e-003	9.0000e-005	1.4400e-003	3.7000e-004	9.0000e-005	4.6000e-004	0.0000	4.2742	4.2742	1.8000e-004	6.8000e-004	4.4806
Vendor	6.0000e-005	1.8800e-003	7.6000e-004	1.0000e-005	3.1000e-004	1.0000e-005	3.3000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8588	0.8588	2.0000e-005	1.3000e-004	0.8972
Worker	1.4700e-003	1.0700e-003	0.0141	4.0000e-005	5.2100e-003	2.0000e-005	5.2400e-003	1.3800e-003	2.0000e-005	1.4100e-003	0.0000	3.8943	3.8943	9.0000e-005	1.0000e-004	3.9261
Total	1.7100e-003	0.0121	0.0175	9.0000e-005	6.8700e-003	1.2000e-004	7.0100e-003	1.8400e-003	1.2000e-004	1.9700e-003	0.0000	9.0272	9.0272	2.9000e-004	9.1000e-004	9.3038

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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 Pipeline Paving - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0111	0.1096	0.1568	2.5000e-004		5.4800e-003	5.4800e-003		5.0500e-003	5.0500e-003	0.0000	21.5289	21.5289	6.9600e-003	0.0000	21.7030
Paving	2.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0113	0.1096	0.1568	2.5000e-004		5.4800e-003	5.4800e-003		5.0500e-003	5.0500e-003	0.0000	21.5289	21.5289	6.9600e-003	0.0000	21.7030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	6.5000e-004	5.0000e-004	6.2500e-003	2.0000e-005	2.1600e-003	1.0000e-005	2.1700e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6582	1.6582	4.0000e-005	4.0000e-005	1.6725
Total	7.0000e-004	2.0400e-003	6.8800e-003	3.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.7000e-004	0.0000	2.3783	2.3783	6.0000e-005	1.5000e-004	2.4247

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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 Pipeline Paving - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0200e-003	0.0131	0.1859	2.5000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	21.5289	21.5289	6.9600e-003	0.0000	21.7029
Paving	2.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.2400e-003	0.0131	0.1859	2.5000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	21.5289	21.5289	6.9600e-003	0.0000	21.7029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	6.5000e-004	5.0000e-004	6.2500e-003	2.0000e-005	2.1600e-003	1.0000e-005	2.1700e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6582	1.6582	4.0000e-005	4.0000e-005	1.6725
Total	7.0000e-004	2.0400e-003	6.8800e-003	3.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.7000e-004	0.0000	2.3783	2.3783	6.0000e-005	1.5000e-004	2.4247

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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 Pipeline Paving - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0301	0.2905	0.4461	7.0000e-004		0.0143	0.0143		0.0132	0.0132	0.0000	61.0809	61.0809	0.0198	0.0000	61.5748
Paving	6.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0308	0.2905	0.4461	7.0000e-004		0.0143	0.0143		0.0132	0.0132	0.0000	61.0809	61.0809	0.0198	0.0000	61.5748

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3000e-004	4.4100e-003	1.7700e-003	2.0000e-005	7.4000e-004	3.0000e-005	7.7000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	2.0148	2.0148	5.0000e-005	3.0000e-004	2.1049
Worker	1.7200e-003	1.2500e-003	0.0165	5.0000e-005	6.1100e-003	3.0000e-005	6.1400e-003	1.6200e-003	3.0000e-005	1.6500e-003	0.0000	4.5683	4.5683	1.1000e-004	1.2000e-004	4.6056
Total	1.8500e-003	5.6600e-003	0.0183	7.0000e-005	6.8500e-003	6.0000e-005	6.9100e-003	1.8300e-003	6.0000e-005	1.8900e-003	0.0000	6.5831	6.5831	1.6000e-004	4.2000e-004	6.7104

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3.5 Pipeline Paving - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.5500e-003	0.0371	0.5275	7.0000e-004		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	61.0809	61.0809	0.0198	0.0000	61.5747
Paving	6.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.1800e-003	0.0371	0.5275	7.0000e-004		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	61.0809	61.0809	0.0198	0.0000	61.5747

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3000e-004	4.4100e-003	1.7700e-003	2.0000e-005	7.4000e-004	3.0000e-005	7.7000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	2.0148	2.0148	5.0000e-005	3.0000e-004	2.1049
Worker	1.7200e-003	1.2500e-003	0.0165	5.0000e-005	6.1100e-003	3.0000e-005	6.1400e-003	1.6200e-003	3.0000e-005	1.6500e-003	0.0000	4.5683	4.5683	1.1000e-004	1.2000e-004	4.6056
Total	1.8500e-003	5.6600e-003	0.0183	7.0000e-005	6.8500e-003	6.0000e-005	6.9100e-003	1.8300e-003	6.0000e-005	1.8900e-003	0.0000	6.5831	6.5831	1.6000e-004	4.2000e-004	6.7104

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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 Restriping - Offsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0278					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4900e-003	0.0374	0.0519	9.0000e-005		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	7.3193	7.3193	4.4000e-004	0.0000	7.3303
Total	0.0333	0.0374	0.0519	9.0000e-005		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	7.3193	7.3193	4.4000e-004	0.0000	7.3303

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	3.3000e-004	2.5000e-004	3.1200e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0800e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.8291	0.8291	2.0000e-005	2.0000e-005	0.8362
Total	3.8000e-004	1.7900e-003	3.7500e-003	2.0000e-005	1.3400e-003	2.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.8000e-004	0.0000	1.5492	1.5492	4.0000e-005	1.3000e-004	1.5885

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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 Restriping - Offsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0278					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	3.6900e-003	0.0525	9.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.3193	7.3193	4.4000e-004	0.0000	7.3303
Total	0.0287	3.6900e-003	0.0525	9.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.3193	7.3193	4.4000e-004	0.0000	7.3303

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5400e-003	6.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7201	0.7201	2.0000e-005	1.1000e-004	0.7523
Worker	3.3000e-004	2.5000e-004	3.1200e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0800e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.8291	0.8291	2.0000e-005	2.0000e-005	0.8362
Total	3.8000e-004	1.7900e-003	3.7500e-003	2.0000e-005	1.3400e-003	2.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.8000e-004	0.0000	1.5492	1.5492	4.0000e-005	1.3000e-004	1.5885

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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 Restriping - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0822					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1032	0.1533	2.5000e-004		5.1600e-003	5.1600e-003		5.1600e-003	5.1600e-003	0.0000	21.6176	21.6176	1.2200e-003	0.0000	21.6480
Total	0.0975	0.1032	0.1533	2.5000e-004		5.1600e-003	5.1600e-003		5.1600e-003	5.1600e-003	0.0000	21.6176	21.6176	1.2200e-003	0.0000	21.6480

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	4.5900e-003	1.8400e-003	2.0000e-005	7.7000e-004	3.0000e-005	8.0000e-004	2.2000e-004	3.0000e-005	2.5000e-004	0.0000	2.0974	2.0974	5.0000e-005	3.1000e-004	2.1911
Worker	9.0000e-004	6.5000e-004	8.5800e-003	3.0000e-005	3.1800e-003	2.0000e-005	3.2000e-003	8.5000e-004	1.0000e-005	8.6000e-004	0.0000	2.3777	2.3777	6.0000e-005	6.0000e-005	2.3972
Total	1.0400e-003	5.2400e-003	0.0104	5.0000e-005	3.9500e-003	5.0000e-005	4.0000e-003	1.0700e-003	4.0000e-005	1.1100e-003	0.0000	4.4751	4.4751	1.1000e-004	3.7000e-004	4.5883

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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 Restriping - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0822					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5200e-003	0.0109	0.1551	2.5000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	21.6175	21.6175	1.2200e-003	0.0000	21.6480
Total	0.0848	0.0109	0.1551	2.5000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	21.6175	21.6175	1.2200e-003	0.0000	21.6480

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	4.5900e-003	1.8400e-003	2.0000e-005	7.7000e-004	3.0000e-005	8.0000e-004	2.2000e-004	3.0000e-005	2.5000e-004	0.0000	2.0974	2.0974	5.0000e-005	3.1000e-004	2.1911
Worker	9.0000e-004	6.5000e-004	8.5800e-003	3.0000e-005	3.1800e-003	2.0000e-005	3.2000e-003	8.5000e-004	1.0000e-005	8.6000e-004	0.0000	2.3777	2.3777	6.0000e-005	6.0000e-005	2.3972
Total	1.0400e-003	5.2400e-003	0.0104	5.0000e-005	3.9500e-003	5.0000e-005	4.0000e-003	1.0700e-003	4.0000e-005	1.1100e-003	0.0000	4.4751	4.4751	1.1000e-004	3.7000e-004	4.5883

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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 Building Construction - Onsite - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0374	0.3454	0.4442	7.0000e-004		0.0167	0.0167		0.0158	0.0158	0.0000	59.9743	59.9743	0.0139	0.0000	60.3206
Total	0.0374	0.3454	0.4442	7.0000e-004		0.0167	0.0167		0.0158	0.0158	0.0000	59.9743	59.9743	0.0139	0.0000	60.3206

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.8200e-003	0.3170	0.1305	1.5200e-003	0.0533	2.2400e-003	0.0556	0.0154	2.1400e-003	0.0175	0.0000	148.0311	148.0311	3.8500e-003	0.0219	154.6488
Worker	0.0284	0.0217	0.2725	7.9000e-004	0.0940	4.7000e-004	0.0944	0.0250	4.3000e-004	0.0254	0.0000	72.3065	72.3065	1.8000e-003	1.9300e-003	72.9268
Total	0.0383	0.3387	0.4031	2.3100e-003	0.1473	2.7100e-003	0.1500	0.0404	2.5700e-003	0.0429	0.0000	220.3376	220.3376	5.6500e-003	0.0238	227.5756

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3.7 Building Construction - Onsite - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0129	0.0723	0.4724	7.0000e-004		2.2600e-003	2.2600e-003		2.2500e-003	2.2500e-003	0.0000	59.9742	59.9742	0.0139	0.0000	60.3205
Total	0.0129	0.0723	0.4724	7.0000e-004		2.2600e-003	2.2600e-003		2.2500e-003	2.2500e-003	0.0000	59.9742	59.9742	0.0139	0.0000	60.3205

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.8200e-003	0.3170	0.1305	1.5200e-003	0.0533	2.2400e-003	0.0556	0.0154	2.1400e-003	0.0175	0.0000	148.0311	148.0311	3.8500e-003	0.0219	154.6488
Worker	0.0284	0.0217	0.2725	7.9000e-004	0.0940	4.7000e-004	0.0944	0.0250	4.3000e-004	0.0254	0.0000	72.3065	72.3065	1.8000e-003	1.9300e-003	72.9268
Total	0.0383	0.3387	0.4031	2.3100e-003	0.1473	2.7100e-003	0.1500	0.0404	2.5700e-003	0.0429	0.0000	220.3376	220.3376	5.6500e-003	0.0238	227.5756

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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 Building Construction - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3133	2.9027	3.9667	6.2300e-003		0.1306	0.1306		0.1232	0.1232	0.0000	536.8907	536.8907	0.1232	0.0000	539.9718
Total	0.3133	2.9027	3.9667	6.2300e-003		0.1306	0.1306		0.1232	0.1232	0.0000	536.8907	536.8907	0.1232	0.0000	539.9718

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0859	2.8620	1.1493	0.0134	0.4774	0.0197	0.4971	0.1378	0.0188	0.1566	0.0000	1,306.6265	1,306.6265	0.0335	0.1931	1,365.0133
Worker	0.2366	0.1722	2.2681	6.8500e-003	0.8411	4.0100e-003	0.8451	0.2234	3.6900e-003	0.2271	0.0000	628.3696	628.3696	0.0146	0.0160	633.5011
Total	0.3225	3.0342	3.4174	0.0203	1.3184	0.0237	1.3421	0.3612	0.0225	0.3837	0.0000	1,934.9961	1,934.9961	0.0480	0.2091	1,998.5144

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3.7 Building Construction - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1121	0.6385	4.2257	6.2300e-003		0.0189	0.0189		0.0187	0.0187	0.0000	536.8901	536.8901	0.1232	0.0000	539.9711
Total	0.1121	0.6385	4.2257	6.2300e-003		0.0189	0.0189		0.0187	0.0187	0.0000	536.8901	536.8901	0.1232	0.0000	539.9711

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0859	2.8620	1.1493	0.0134	0.4774	0.0197	0.4971	0.1378	0.0188	0.1566	0.0000	1,306.6265	1,306.6265	0.0335	0.1931	1,365.0133
Worker	0.2366	0.1722	2.2681	6.8500e-003	0.8411	4.0100e-003	0.8451	0.2234	3.6900e-003	0.2271	0.0000	628.3696	628.3696	0.0146	0.0160	633.5011
Total	0.3225	3.0342	3.4174	0.0203	1.3184	0.0237	1.3421	0.3612	0.0225	0.3837	0.0000	1,934.9961	1,934.9961	0.0480	0.2091	1,998.5144

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3.8 Architectural Coating - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4106					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1452	0.2367	3.8000e-004		6.1000e-003	6.1000e-003		6.0500e-003	6.0500e-003	0.0000	32.9373	32.9373	4.5100e-003	0.0000	33.0502
Total	1.4292	0.1452	0.2367	3.8000e-004		6.1000e-003	6.1000e-003		6.0500e-003	6.0500e-003	0.0000	32.9373	32.9373	4.5100e-003	0.0000	33.0502

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0243	0.0177	0.2332	7.0000e-004	0.0865	4.1000e-004	0.0869	0.0230	3.8000e-004	0.0233	0.0000	64.5922	64.5922	1.5000e-003	1.6400e-003	65.1197
Total	0.0243	0.0177	0.2332	7.0000e-004	0.0865	4.1000e-004	0.0869	0.0230	3.8000e-004	0.0233	0.0000	64.5922	64.5922	1.5000e-003	1.6400e-003	65.1197

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3.8 Architectural Coating - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4106					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0100e-003	0.0471	0.2387	3.8000e-004		9.7000e-004	9.7000e-004		9.2000e-004	9.2000e-004	0.0000	32.9373	32.9373	4.5100e-003	0.0000	33.0501
Total	1.4156	0.0471	0.2387	3.8000e-004		9.7000e-004	9.7000e-004		9.2000e-004	9.2000e-004	0.0000	32.9373	32.9373	4.5100e-003	0.0000	33.0501

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0243	0.0177	0.2332	7.0000e-004	0.0865	4.1000e-004	0.0869	0.0230	3.8000e-004	0.0233	0.0000	64.5922	64.5922	1.5000e-003	1.6400e-003	65.1197
Total	0.0243	0.0177	0.2332	7.0000e-004	0.0865	4.1000e-004	0.0869	0.0230	3.8000e-004	0.0233	0.0000	64.5922	64.5922	1.5000e-003	1.6400e-003	65.1197

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3.9 Testing - Offsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	6.3600e-003	9.1600e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	1.4130	1.4130	6.0000e-005	0.0000	1.4145
Total	7.1000e-004	6.3600e-003	9.1600e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	1.4130	1.4130	6.0000e-005	0.0000	1.4145

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	5.1000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1404	0.1404	0.0000	0.0000	0.1416
Total	5.0000e-005	4.0000e-005	5.1000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1404	0.1404	0.0000	0.0000	0.1416

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3.9 Testing - Offsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-004	7.1000e-004	0.0101	2.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.4130	1.4130	6.0000e-005	0.0000	1.4145
Total	1.6000e-004	7.1000e-004	0.0101	2.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.4130	1.4130	6.0000e-005	0.0000	1.4145

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	5.1000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1404	0.1404	0.0000	0.0000	0.1416
Total	5.0000e-005	4.0000e-005	5.1000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1404	0.1404	0.0000	0.0000	0.1416

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3.10 Fine Grading - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0717	0.0000	0.0717	0.0278	0.0000	0.0278	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0241	0.2428	0.2079	4.7000e-004		0.0100	0.0100		9.2100e-003	9.2100e-003	0.0000	40.8896	40.8896	0.0132	0.0000	41.2203
Total	0.0241	0.2428	0.2079	4.7000e-004	0.0717	0.0100	0.0817	0.0278	9.2100e-003	0.0370	0.0000	40.8896	40.8896	0.0132	0.0000	41.2203

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.1900e-003	0.3125	0.0906	1.4800e-003	0.0461	3.0600e-003	0.0492	0.0127	2.9300e-003	0.0156	0.0000	146.2337	146.2337	6.1500e-003	0.0232	153.2946
Vendor	7.0000e-005	2.1700e-003	8.7000e-004	1.0000e-005	3.6000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.2000e-004	0.0000	0.9909	0.9909	3.0000e-005	1.5000e-004	1.0352
Worker	5.3000e-004	3.8000e-004	5.0700e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4042	1.4042	3.0000e-005	4.0000e-005	1.4156
Total	6.7900e-003	0.3151	0.0965	1.5100e-003	0.0484	3.0800e-003	0.0515	0.0133	2.9500e-003	0.0162	0.0000	148.6288	148.6288	6.2100e-003	0.0234	155.7454

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3.10 Fine Grading - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0323	0.0000	0.0323	0.0125	0.0000	0.0125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7100e-003	0.0248	0.2475	4.7000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	40.8896	40.8896	0.0132	0.0000	41.2202
Total	5.7100e-003	0.0248	0.2475	4.7000e-004	0.0323	7.6000e-004	0.0330	0.0125	7.6000e-004	0.0133	0.0000	40.8896	40.8896	0.0132	0.0000	41.2202

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.1900e-003	0.3125	0.0906	1.4800e-003	0.0461	3.0600e-003	0.0492	0.0127	2.9300e-003	0.0156	0.0000	146.2337	146.2337	6.1500e-003	0.0232	153.2946
Vendor	7.0000e-005	2.1700e-003	8.7000e-004	1.0000e-005	3.6000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.2000e-004	0.0000	0.9909	0.9909	3.0000e-005	1.5000e-004	1.0352
Worker	5.3000e-004	3.8000e-004	5.0700e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4042	1.4042	3.0000e-005	4.0000e-005	1.4156
Total	6.7900e-003	0.3151	0.0965	1.5100e-003	0.0484	3.0800e-003	0.0515	0.0133	2.9500e-003	0.0162	0.0000	148.6288	148.6288	6.2100e-003	0.0234	155.7454

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3.11 Concrete Laydown - Onsite - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0366	0.3973	0.4500	6.4000e-004		0.0214	0.0214		0.0196	0.0196	0.0000	56.3214	56.3214	0.0182	0.0000	56.7768
Paving	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0375	0.3973	0.4500	6.4000e-004		0.0214	0.0214		0.0196	0.0196	0.0000	56.3214	56.3214	0.0182	0.0000	56.7768

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0130	0.4341	0.1743	2.0400e-003	0.0724	2.9900e-003	0.0754	0.0209	2.8600e-003	0.0238	0.0000	198.1789	198.1789	5.0700e-003	0.0293	207.0346
Worker	2.1200e-003	1.5400e-003	0.0203	6.0000e-005	7.5200e-003	4.0000e-005	7.5500e-003	2.0000e-003	3.0000e-005	2.0300e-003	0.0000	5.6167	5.6167	1.3000e-004	1.4000e-004	5.6626
Total	0.0151	0.4356	0.1946	2.1000e-003	0.0799	3.0300e-003	0.0829	0.0229	2.8900e-003	0.0258	0.0000	203.7956	203.7956	5.2000e-003	0.0294	212.6971

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3.11 Concrete Laydown - Onsite - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0171	0.1300	0.4816	6.4000e-004		7.6600e-003	7.6600e-003		7.1100e-003	7.1100e-003	0.0000	56.3214	56.3214	0.0182	0.0000	56.7768
Paving	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0180	0.1300	0.4816	6.4000e-004		7.6600e-003	7.6600e-003		7.1100e-003	7.1100e-003	0.0000	56.3214	56.3214	0.0182	0.0000	56.7768

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0130	0.4341	0.1743	2.0400e-003	0.0724	2.9900e-003	0.0754	0.0209	2.8600e-003	0.0238	0.0000	198.1789	198.1789	5.0700e-003	0.0293	207.0346
Worker	2.1200e-003	1.5400e-003	0.0203	6.0000e-005	7.5200e-003	4.0000e-005	7.5500e-003	2.0000e-003	3.0000e-005	2.0300e-003	0.0000	5.6167	5.6167	1.3000e-004	1.4000e-004	5.6626
Total	0.0151	0.4356	0.1946	2.1000e-003	0.0799	3.0300e-003	0.0829	0.0229	2.8900e-003	0.0258	0.0000	203.7956	203.7956	5.2000e-003	0.0294	212.6971

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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	1.7743	45.5110	27.7167	0.2933	16.1285	0.4791	16.6075	4.4328	0.4572	4.8900	0.0000	28,308.2466	28,308.2466	0.8441	3.4796	29,366.2685
Unmitigated	1.7743	45.5110	27.7167	0.2933	16.1285	0.4791	16.6075	4.4328	0.4572	4.8900	0.0000	28,308.2466	28,308.2466	0.8441	3.4796	29,366.2685

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	1,473.34	1,473.34	1473.34	21,451,860	21,451,860
Unrefrigerated Warehouse-No Rail	3,382.35	3,382.35	3382.35	18,098,297	18,098,297
Total	4,855.70	4,855.70	4,855.70	39,550,156	39,550,156

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

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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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	40.00	0.00	0.00	100.00	100	0	0
Unrefrigerated Warehouse-No	14.70	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.165262	0.045632	0.183539	0.605567	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.600758	0.062281	0.191226	0.145734	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	887.4925	887.4925	0.0749	9.0800e-003	892.0709
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,549.9699	3,549.9699	0.2996	0.0363	3,568.2836
NaturalGas Mitigated	0.1286	1.1689	0.9819	7.0100e-003		0.0888	0.0888		0.0888	0.0888	0.0000	1,272.4828	1,272.4828	0.0244	0.0233	1,280.0445
NaturalGas Unmitigated	0.1286	1.1689	0.9819	7.0100e-003		0.0888	0.0888		0.0888	0.0888	0.0000	1,272.4828	1,272.4828	0.0244	0.0233	1,280.0445

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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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.95426e+007	0.1054	0.9580	0.8047	5.7500e-003		0.0728	0.0728		0.0728	0.0728	0.0000	1,042.8654	1,042.8654	0.0200	0.0191	1,049.0626
Unrefrigerated Warehouse-No Rail	4.30287e+006	0.0232	0.2109	0.1772	1.2700e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.6174	229.6174	4.4000e-003	4.2100e-003	230.9819
Total		0.1286	1.1689	0.9819	7.0200e-003		0.0888	0.0888		0.0888	0.0888	0.0000	1,272.4828	1,272.4828	0.0244	0.0233	1,280.0445

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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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.95426e+007	0.1054	0.9580	0.8047	5.7500e-003		0.0728	0.0728		0.0728	0.0728	0.0000	1,042.8654	1,042.8654	0.0200	0.0191	1,049.0626
Unrefrigerated Warehouse-No Rail	4.30287e+006	0.0232	0.2109	0.1772	1.2700e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.6174	229.6174	4.4000e-003	4.2100e-003	230.9819
Total		0.1286	1.1689	0.9819	7.0200e-003		0.0888	0.0888		0.0888	0.0888	0.0000	1,272.4828	1,272.4828	0.0244	0.0233	1,280.0445

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.50508e+007	2,669.1844	0.2253	0.0273	2,682.9543
Unrefrigerated Warehouse-No Rail	4.96649e+006	880.7855	0.0743	9.0100e-003	885.3293
Total		3,549.9699	0.2996	0.0363	3,568.2836

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	3.76269e+006	667.2961	0.0563	6.8300e-003	670.7386
Unrefrigerated Warehouse-No Rail	1.24162e+006	220.1964	0.0186	2.2500e-003	221.3323
Total		887.4925	0.0749	9.0800e-003	892.0709

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

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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	10.6364	1.2000e-004	0.0137	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0249	0.0249	5.0000e-005	0.0000	0.0261
Unmitigated	10.6376	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491

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	0.6219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	10.0136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1800e-003	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491
Total	10.6376	2.1000e-004	0.0237	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0461	0.0461	1.2000e-004	0.0000	0.0491

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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	0.6219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	10.0136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.2000e-004	1.2000e-004	0.0137	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0249	0.0249	5.0000e-005	0.0000	0.0261
Total	10.6364	1.2000e-004	0.0137	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0249	0.0249	5.0000e-005	0.0000	0.0261

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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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	22.5792	0.2818	6.8200e-003	31.6558
Unmitigated	28.2239	0.3523	8.5200e-003	39.5697

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.61191 / 0	4.2336	0.0528	1.2800e-003	5.9355
Unrefrigerated Warehouse-No Rail	9.13405 / 0	23.9903	0.2994	7.2400e-003	33.6342
Total		28.2239	0.3523	8.5200e-003	39.5697

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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			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.28953 / 0	3.3869	0.0423	1.0200e-003	4.7484
Unrefrigerated Warehouse-No Rail	7.30724 / 0	19.1923	0.2395	5.7900e-003	26.9074
Total		22.5792	0.2818	6.8100e-003	31.6558

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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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	120.1402	7.1001	0.0000	297.6423
Unmitigated	480.5608	28.4003	0.0000	1,190.5691

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	355.11	72.0841	4.2601	0.0000	178.5854
Unrefrigerated Warehouse-No Rail	2012.29	408.4767	24.1403	0.0000	1,011.9837
Total		480.5608	28.4003	0.0000	1,190.5691

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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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	88.7775	18.0210	1.0650	0.0000	44.6463
Unrefrigerated Warehouse-No Rail	503.072	102.1192	6.0351	0.0000	252.9959
Total		120.1402	7.1001	0.0000	297.6423

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	1	50	500	1	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Apple Valley 143 - Mitigated - San Bernardino-Mojave Desert 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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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0843	0.0248	0.2150	4.1000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	39.1230	39.1230	5.4900e-003	0.0000	39.2601
Total	0.0843	0.0248	0.2150	4.1000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	39.1230	39.1230	5.4900e-003	0.0000	39.2601

11.0 Vegetation

Apple Valley 143 - Mitigated

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

San Bernardino-Mojave Desert County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating - Onsite	0.01	0.60	0.00	0.00	0.79	0.80	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Onsite	0.32	0.38	-0.03	0.00	0.73	0.72	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Laydown - Onsite	0.37	0.32	-0.05	0.00	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading - Onsite	0.60	0.39	-0.13	0.00	0.71	0.69	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading - Onsite	0.60	0.41	-0.11	0.00	0.71	0.70	0.00	0.00	0.00	0.00	0.00	0.00
Pipeline Paving - Offsite	0.66	0.86	-0.18	0.00	0.92	0.91	0.00	0.00	0.00	0.00	0.00	0.00
Restriping - Offsite	0.13	0.85	-0.01	0.00	0.93	0.93	0.00	0.00	0.00	0.00	0.00	0.00
Road Removal/ Pipeline Install - Offsite	0.71	0.83	-0.10	0.00	0.91	0.91	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation - Onsite	0.68	0.86	-0.26	0.00	0.92	0.92	0.00	0.00	0.00	0.00	0.00	0.00
Testing - Offsite	0.72	0.88	-0.10	0.00	0.93	0.93	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Apple Valley 143 - Mitigated**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Aerial Lifts	Diesel	No Change	0	6	No Change	0.00
Air Compressors	Diesel	Tier 4 Final	4	4	No Change	0.00
Concrete/Industrial Saws	Diesel	Tier 4 Final	1	1	No Change	0.00
Cranes	Diesel	Tier 4 Final	1	1	No Change	0.00
Crawler Tractors	Diesel	Tier 4 Final	1	1	No Change	0.00
Excavators	Diesel	Tier 4 Final	5	5	No Change	0.00
Forklifts	Diesel	Tier 4 Final	7	7	No Change	0.00
Generator Sets	Diesel	Tier 4 Final	4	4	No Change	0.00
Graders	Diesel	Tier 4 Final	2	2	No Change	0.00
Other Construction Equipment	Diesel	No Change	2	2	No Change	0.00
Pavers	Diesel	Tier 4 Final	1	1	No Change	0.00
Paving Equipment	Diesel	Tier 4 Final	1	1	No Change	0.00
Pumps	Diesel	Tier 4 Final	1	1	No Change	0.00
Rollers	Diesel	Tier 4 Final	1	1	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Final	2	2	No Change	0.00
Scrapers	Diesel	Tier 4 Final	6	6	No Change	0.00
Surfacing Equipment	Diesel	Tier 4 Final	6	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	15	15	No Change	0.00
Welders	Diesel	No Change	0	2	No Change	0.00

Apple Valley 143 - Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Aerial Lifts	1.13800E-002	1.73160E-001	3.59160E-001	5.50000E-004	3.00000E-003	2.76000E-003	0.00000E+000	4.84900E+001	4.84900E+001	1.56800E-002	0.00000E+000	4.88821E+001
Air Compressors	3.70700E-002	2.50240E-001	3.68090E-001	6.00000E-004	1.26700E-002	1.26700E-002	0.00000E+000	5.19162E+001	5.19162E+001	2.95000E-003	0.00000E+000	5.19899E+001
Concrete/Industrial Saws	1.53100E-002	1.18330E-001	1.73530E-001	3.00000E-004	5.63000E-003	5.63000E-003	0.00000E+000	2.55387E+001	2.55387E+001	1.23000E-003	0.00000E+000	2.55695E+001
Cranes	2.90500E-002	3.07820E-001	1.55030E-001	5.00000E-004	1.28100E-002	1.17900E-002	0.00000E+000	4.41357E+001	4.41357E+001	1.42700E-002	0.00000E+000	4.44926E+001
Crawler Tractors	3.33000E-003	3.84300E-002	1.68300E-002	6.00000E-005	1.49000E-003	1.37000E-003	0.00000E+000	5.15919E+000	5.15919E+000	1.67000E-003	0.00000E+000	5.20091E+000
Excavators	1.71100E-002	1.37270E-001	3.01640E-001	4.80000E-004	6.74000E-003	6.20000E-003	0.00000E+000	4.19721E+001	4.19721E+001	1.35700E-002	0.00000E+000	4.23115E+001
Forklifts	6.61900E-002	6.20700E-001	7.93910E-001	1.06000E-003	3.61200E-002	3.32300E-002	0.00000E+000	9.35339E+001	9.35339E+001	3.02500E-002	0.00000E+000	9.42902E+001
Generator Sets	8.64200E-002	7.71040E-001	1.10299E+000	1.98000E-003	3.38600E-002	3.38600E-002	0.00000E+000	1.70127E+002	1.70127E+002	6.95000E-003	0.00000E+000	1.70301E+002
Graders	8.41000E-003	1.00960E-001	3.78100E-002	1.50000E-004	3.27000E-003	3.01000E-003	0.00000E+000	1.30786E+001	1.30786E+001	4.23000E-003	0.00000E+000	1.31843E+001
Other Construction Equipment	1.10300E-002	1.03470E-001	1.04570E-001	1.40000E-004	6.84000E-003	6.30000E-003	0.00000E+000	1.23735E+001	1.23735E+001	4.00000E-003	0.00000E+000	1.24735E+001
Pavers	1.53300E-002	1.46730E-001	2.38460E-001	3.90000E-004	6.87000E-003	6.32000E-003	0.00000E+000	3.40667E+001	3.40667E+001	1.10200E-002	0.00000E+000	3.43421E+001
Paving Equipment	1.37200E-002	1.25730E-001	2.11730E-001	3.40000E-004	6.08000E-003	5.60000E-003	0.00000E+000	2.95229E+001	2.95229E+001	9.55000E-003	0.00000E+000	2.97616E+001
Pumps	1.50000E-002	1.26230E-001	1.76810E-001	3.10000E-004	5.95000E-003	5.95000E-003	0.00000E+000	2.68474E+001	2.68474E+001	1.20000E-003	0.00000E+000	2.68774E+001
Rollers	1.21900E-002	1.27600E-001	1.52680E-001	2.20000E-004	6.83000E-003	6.28000E-003	0.00000E+000	1.90202E+001	1.90202E+001	6.15000E-003	0.00000E+000	1.91740E+001
Rubber Tired Dozers	1.54800E-002	1.60360E-001	7.00800E-002	1.90000E-004	7.22000E-003	6.64000E-003	0.00000E+000	1.68803E+001	1.68803E+001	5.46000E-003	0.00000E+000	1.70168E+001
Scrapers	5.86100E-002	6.12440E-001	4.57730E-001	1.14000E-003	2.40500E-002	2.21300E-002	0.00000E+000	1.00012E+002	1.00012E+002	3.23500E-002	0.00000E+000	1.00821E+002
Surfacing Equipment	2.55900E-002	2.93780E-001	3.45390E-001	5.00000E-004	1.45100E-002	1.33500E-002	0.00000E+000	4.39480E+001	4.39480E+001	1.42100E-002	0.00000E+000	4.43033E+001
Tractors/Loaders/Backhoes	1.28190E-001	1.29166E+000	1.97470E+000	2.75000E-003	6.00100E-002	5.52100E-002	0.00000E+000	2.41859E+002	2.41859E+002	7.82200E-002	0.00000E+000	2.43814E+002
Welders	4.73100E-002	2.75570E-001	3.31360E-001	5.10000E-004	9.60000E-003	9.60000E-003	0.00000E+000	3.74559E+001	3.74559E+001	3.85000E-003	0.00000E+000	3.75521E+001

Apple Valley 143 - Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Aerial Lifts	1.13800E-002	1.73160E-001	3.59160E-001	5.50000E-004	3.00000E-003	2.76000E-003	0.00000E+000	4.84900E+001	4.84900E+001	1.56800E-002	0.00000E+000	4.88820E+001
Air Compressors	6.04000E-003	2.61800E-002	3.72590E-001	6.00000E-004	8.10000E-004	8.10000E-004	0.00000E+000	5.19161E+001	5.19161E+001	2.95000E-003	0.00000E+000	5.19898E+001
Concrete/Industrial Saws	2.97000E-003	1.28800E-002	1.83290E-001	3.00000E-004	4.00000E-004	4.00000E-004	0.00000E+000	2.55387E+001	2.55387E+001	1.23000E-003	0.00000E+000	2.55695E+001
Cranes	6.17000E-003	2.67400E-002	2.26300E-001	5.00000E-004	8.20000E-004	8.20000E-004	0.00000E+000	4.41356E+001	4.41356E+001	1.42700E-002	0.00000E+000	4.44925E+001
Crawler Tractors	7.20000E-004	3.14000E-003	2.65300E-002	6.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	5.15919E+000	5.15919E+000	1.67000E-003	0.00000E+000	5.20090E+000
Excavators	5.88000E-003	2.54700E-002	3.62420E-001	4.80000E-004	7.80000E-004	7.80000E-004	0.00000E+000	4.19721E+001	4.19721E+001	1.35700E-002	0.00000E+000	4.23114E+001
Forklifts	1.31200E-002	5.68500E-002	8.09030E-001	1.06000E-003	1.75000E-003	1.75000E-003	0.00000E+000	9.35338E+001	9.35338E+001	3.02500E-002	0.00000E+000	9.42901E+001
Generator Sets	1.98000E-002	8.58000E-002	1.22096E+000	1.98000E-003	2.64000E-003	2.64000E-003	0.00000E+000	1.70127E+002	1.70127E+002	6.95000E-003	0.00000E+000	1.70301E+002
Graders	1.83000E-003	7.91000E-003	6.69400E-002	1.50000E-004	2.40000E-004	2.40000E-004	0.00000E+000	1.30785E+001	1.30785E+001	4.23000E-003	0.00000E+000	1.31843E+001
Other Construction Equipment	1.10300E-002	1.03470E-001	1.04570E-001	1.40000E-004	6.84000E-003	6.30000E-003	0.00000E+000	1.23735E+001	1.23735E+001	4.00000E-003	0.00000E+000	1.24735E+001
Pavers	4.77000E-003	2.06600E-002	2.93950E-001	3.90000E-004	6.40000E-004	6.40000E-004	0.00000E+000	3.40666E+001	3.40666E+001	1.10200E-002	0.00000E+000	3.43421E+001
Paving Equipment	4.15000E-003	1.79800E-002	2.55830E-001	3.40000E-004	5.50000E-004	5.50000E-004	0.00000E+000	2.95229E+001	2.95229E+001	9.55000E-003	0.00000E+000	2.97616E+001
Pumps	3.12000E-003	1.35400E-002	1.92680E-001	3.10000E-004	4.20000E-004	4.20000E-004	0.00000E+000	2.68473E+001	2.68473E+001	1.20000E-003	0.00000E+000	2.68774E+001
Rollers	2.65000E-003	1.15000E-002	1.63660E-001	2.20000E-004	3.50000E-004	3.50000E-004	0.00000E+000	1.90202E+001	1.90202E+001	6.15000E-003	0.00000E+000	1.91740E+001
Rubber Tired Dozers	2.35000E-003	1.01900E-002	8.62600E-002	1.90000E-004	3.10000E-004	3.10000E-004	0.00000E+000	1.68803E+001	1.68803E+001	5.46000E-003	0.00000E+000	1.70168E+001
Scrapers	1.39800E-002	6.05900E-002	5.12640E-001	1.14000E-003	1.86000E-003	1.86000E-003	0.00000E+000	1.00012E+002	1.00012E+002	3.23500E-002	0.00000E+000	1.00820E+002
Surfacing Equipment	6.11000E-003	2.65000E-002	3.77050E-001	5.00000E-004	8.20000E-004	8.20000E-004	0.00000E+000	4.39479E+001	4.39479E+001	1.42100E-002	0.00000E+000	4.43033E+001
Tractors/Loaders/Balckhoes	3.35600E-002	1.45410E-001	2.06936E+000	2.75000E-003	4.47000E-003	4.47000E-003	0.00000E+000	2.41858E+002	2.41858E+002	7.82200E-002	0.00000E+000	2.43814E+002
Welders	4.73100E-002	2.75570E-001	3.31360E-001	5.10000E-004	9.60000E-003	9.60000E-003	0.00000E+000	3.74559E+001	3.74559E+001	3.85000E-003	0.00000E+000	3.75521E+001

Apple Valley 143 - Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Aerial Lifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23737E-006	1.23737E-006	0.00000E+000	0.00000E+000	1.22744E-006
Air Compressors	8.37065E-001	8.95380E-001	-1.22253E-002	0.00000E+000	9.36069E-001	9.36069E-001	0.00000E+000	1.15571E-006	1.15571E-006	0.00000E+000	0.00000E+000	1.34642E-006
Concrete/Industrial Saws	8.06009E-001	8.91152E-001	-5.62439E-002	0.00000E+000	9.28952E-001	9.28952E-001	0.00000E+000	1.17469E-006	1.17469E-006	0.00000E+000	0.00000E+000	1.17327E-006
Cranes	7.87608E-001	9.13131E-001	-4.59717E-001	0.00000E+000	9.35988E-001	9.30450E-001	0.00000E+000	1.13287E-006	1.13287E-006	0.00000E+000	0.00000E+000	1.34854E-006
Crawler Tractors	7.83784E-001	9.18293E-001	-5.76352E-001	0.00000E+000	9.32886E-001	9.27007E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.92274E-006
Excavators	6.56341E-001	8.14453E-001	-2.01498E-001	0.00000E+000	8.84273E-001	8.74194E-001	0.00000E+000	1.19127E-006	1.19127E-006	0.00000E+000	0.00000E+000	1.18171E-006
Forklifts	8.01783E-001	9.08410E-001	-1.90450E-002	0.00000E+000	9.51550E-001	9.47337E-001	0.00000E+000	1.17604E-006	1.17604E-006	0.00000E+000	0.00000E+000	1.27267E-006
Generator Sets	7.70886E-001	8.88722E-001	-1.06955E-001	0.00000E+000	9.22032E-001	9.22032E-001	0.00000E+000	1.17559E-006	1.17559E-006	0.00000E+000	0.00000E+000	1.17439E-006
Graders	7.82402E-001	9.21652E-001	-7.70431E-001	0.00000E+000	9.26606E-001	9.20266E-001	0.00000E+000	1.52922E-006	1.52922E-006	0.00000E+000	0.00000E+000	1.51696E-006
Other Construction Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.08181E-007	8.08181E-007	0.00000E+000	0.00000E+000	1.60340E-006
Pavers	6.88845E-001	8.59197E-001	-2.32702E-001	0.00000E+000	9.06841E-001	8.98734E-001	0.00000E+000	1.17417E-006	1.17417E-006	0.00000E+000	0.00000E+000	1.16475E-006
Paving Equipment	6.97522E-001	8.56995E-001	-2.08284E-001	0.00000E+000	9.09539E-001	9.01786E-001	0.00000E+000	1.01616E-006	1.01616E-006	0.00000E+000	0.00000E+000	1.34401E-006
Pumps	7.92000E-001	8.92735E-001	-8.97574E-002	0.00000E+000	9.29412E-001	9.29412E-001	0.00000E+000	1.11743E-006	1.11743E-006	0.00000E+000	0.00000E+000	1.11618E-006
Rollers	7.82609E-001	9.09875E-001	-7.19151E-002	0.00000E+000	9.48755E-001	9.44268E-001	0.00000E+000	1.05151E-006	1.05151E-006	0.00000E+000	0.00000E+000	1.04308E-006
Rubber Tired Dozers	8.48191E-001	9.36455E-001	-2.30879E-001	0.00000E+000	9.57064E-001	9.53313E-001	0.00000E+000	1.18481E-006	1.18481E-006	0.00000E+000	0.00000E+000	1.17531E-006
Scrapers	7.61474E-001	9.01068E-001	-1.19962E-001	0.00000E+000	9.22661E-001	9.15951E-001	0.00000E+000	1.19986E-006	1.19986E-006	0.00000E+000	0.00000E+000	1.19023E-006
Surfacing Equipment	7.61235E-001	9.09796E-001	-9.16645E-002	0.00000E+000	9.43487E-001	9.38577E-001	0.00000E+000	1.13771E-006	1.13771E-006	0.00000E+000	0.00000E+000	1.12858E-006
Tractors/Loaders/Balckhoes	7.38201E-001	8.87424E-001	-4.79364E-002	0.00000E+000	9.25512E-001	9.19036E-001	0.00000E+000	1.19905E-006	1.19905E-006	0.00000E+000	0.00000E+000	1.18943E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.33490E-006	1.33490E-006	0.00000E+000	0.00000E+000	1.33148E-006

Apple Valley 143 - Mitigated

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

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
No	Clean Paved Road	% PM Reduction	0.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating - Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating - Onsite	Roads	0.09	0.02	0.09	0.02	0.00	0.00
Building Construction - Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Onsite	Roads	1.47	0.40	1.47	0.40	0.00	0.00
Concrete Laydown - Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Laydown - Onsite	Roads	0.08	0.02	0.08	0.02	0.00	0.00
Fine Grading - Onsite	Fugitive Dust	0.07	0.03	0.03	0.01	0.55	0.55
Fine Grading - Onsite	Roads	0.05	0.01	0.05	0.01	0.00	0.00

Apple Valley 143 - Mitigated

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

Natural Gas	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
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.07	20.00	
Water Outdoor	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

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.11	0.33		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			

Apple Valley 143 - Mitigated

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

No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
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Apple Valley 143 - Mitigated

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

No	:Only Natural Gas Hearth	
No	:No Hearth	
No	:Use Low VOC Cleaning Supplies	
No	:Use Low VOC Paint (Residential Interior)	250.00
No	:Use Low VOC Paint (Residential Exterior)	250.00
No	:Use Low VOC Paint (Non-residential Interior)	50.00
No	:Use Low VOC Paint (Non-residential Exterior)	50.00
No	:Use Low VOC Paint (Parking)	100.00
Yes	:% Electric Lawnmower	100.00
Yes	:% Electric Leafblower	100.00
Yes	:% Electric Chainsaw	100.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	:Exceed Title 24	0.00	
No	:Install High Efficiency Lighting	0.00	
Yes	:On-site Renewable	0.00	75.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00

Apple Valley 143 - Mitigated

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

Refrigerator	15.00
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Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	20.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	75.00

