

May 23, 2022

Ms. Tracy Zinn
T&B Planning, Inc
3200 El Camino Real, Suite 100
Irvine, CA 92602

**SUBJECT: MORENO VALLEY BUSINESS CENTER AIR QUALITY & GREENHOUSE GAS ASSESSMENT
EVALUATION**

Dear Ms. Tracy Zinn:

Urban Crossroads, Inc. is pleased to provide the following Air Quality & Greenhouse Gas Assessment Evaluation (referred to as **Memo**) for Moreno Valley Business Center development which is located at the northeast corner of Alessandro Boulevard and Day Street in the City of Moreno Valley.

BACKGROUND

In May 2021, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod Version 2020.4.0. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_x, SO_x, CO, PM₁₀, and PM_{2.5}) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from MMs (1).

The previously completed *Moreno Valley Business Center Air Quality Impact Analysis* (dated January 27, 2021) and *Moreno Valley Business Center Greenhouse Gas Analysis* (dated January 27, 2021) (referred to herein as “technical studies”) were prepared before the release of CalEEMod Version 2020.4.0. Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational emissions. Output from the model runs for both construction and operational activity are provided in Attachments A and B.

The purpose of this work effort is to demonstrate if the proposed Project is anticipated to generate air quality, greenhouse gas, or energy, impacts that are not already disclosed in the technical studies.

As shown on Tables 1 through 5, use of CalEEMod 2020.4.0 would not result in any substantive change to the emissions quantification or the findings and conclusions previously made in the technical studies.

Because Project emissions will not exceed regional or localized emission significance thresholds during construction or operation of the proposed Project due to design features that will be implemented by the Project Applicant (specifically the use of at least CARB Tier 4 Interim equipment during construction), implementation of the mitigation measures identified in the previous technical studies is no longer necessary.

PROJECT AIR QUALITY EMISSIONS SUMMARY

REGIONAL EMISSIONS SUMMARY

TABLE 1: PROPOSED PROJECT CALEEMOD 2020 REGIONAL CONSTRUCTION EMISSIONS¹

Year	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
2021	1.34	15.20	31.13	0.06	10.67	4.38
2022	36.10	16.02	29.56	0.06	2.51	0.78
Winter						
2021	1.29	15.31	30.98	0.06	10.67	4.38
2022	36.05	16.17	28.45	0.06	2.51	0.78
Maximum Daily Emissions	36.10	16.17	31.13	0.06	10.67	4.38
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

TABLE 2: PROPOSED PROJECT CALEEMOD 2020 OPERATIONAL EMISSIONS (1 OF 2)

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
Area Source	3.76	3.30E-04	0.04	0.00	1.30E-04	1.30E-04
Energy Source	0.07	0.64	0.54	3.83E-03	0.05	0.05
Mobile Source (Passenger Cars)	0.46	0.54	8.60	0.03	2.74	0.73
Mobile Source (Trucks)	0.49	18.02	4.14	0.09	3.60	1.18
TRUs	0.21	1.83	2.37	3.76E-04	0.04	0.04
On-Site Equipment Source	0.12	1.27	0.76	3.17E-03	0.04	0.04
Total Maximum Daily Emissions	5.12	22.30	16.44	0.12	6.47	2.04
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

¹ All equipment utilized during Project construction will meet at least CARB Tier 4 Interim standards.

TABLE 2: PROPOSED PROJECT CALEEMOD 2020 OPERATIONAL EMISSIONS (2 OF 2)

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Winter						
Area Source	3.76	3.30E-04	0.04	0.00	1.30E-04	1.30E-04
Energy Source	0.07	0.64	0.54	3.83E-03	0.05	0.05
Mobile Source (Passenger Cars)	0.38	0.56	6.97	0.02	2.74	0.73
Mobile Source (Trucks)	0.48	18.97	4.16	0.09	3.60	1.18
TRUs	0.21	1.83	2.37	3.76E-04	0.04	0.04
On-Site Equipment Source	0.12	1.27	0.76	3.17E-03	0.04	0.04
Total Maximum Daily Emissions	5.02	23.27	14.83	0.12	6.47	2.04
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

LOCALIZED EMISSIONS SUMMARY

TABLE 3: PROPOSED PROJECT CALEEMOD 2020 LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION²

On-Site Emissions	Emissions (lbs/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Site Preparation				
Maximum Daily Emissions	15.04	30.31	10.45	4.32
SCAQMD Localized Threshold	270	1,577	13	8
Threshold Exceeded?	NO	NO	NO	NO
Grading				
Maximum Daily Emissions	12.49	24.51	5.73	1.72
SCAQMD Localized Threshold	270	1,577	13	8
Threshold Exceeded?	NO	NO	NO	NO

² All equipment utilized during Project construction will meet at least CARB Tier 4 Interim standards.

TABLE 4: PROPOSED PROJECT CALCEEMOD 2020 LOCALIZED SIGNIFICANCE SUMMARY OF OPERATIONS

On-Site Emissions	Emissions (lbs/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Maximum Daily Emissions	3.51	3.62	0.41	0.19
SCAQMD Localized Threshold	270	1,577	4	2
Threshold Exceeded?	NO	NO	NO	NO

COMPARISON TO PREVIOUS TECHNICAL STUDY

TABLE 5: REGIONAL CONSTRUCTION EMISSIONS (PROPOSED PROJECT VS. PREVIOUS TECHNICAL STUDY)

Year	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Proposed Project CalEEMod 2020	36.10	16.17	31.13	0.06	10.67	4.38
Previous Technical Study	37.66	40.19	27.64	0.07	12.09	5.74
Net Emissions (Proposed – Previous)	-1.56	-24.02	3.49	-0.01	-1.42	-1.36

TABLE 6: REGIONAL OPERATIONAL EMISSIONS (PROPOSED PROJECT VS. PREVIOUS TECHNICAL STUDY)

Year	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
Proposed Project CalEEMod 2020	5.12	22.30	16.44	0.12	6.47	2.04
Previous Technical Study	5.22	23.29	15.63	0.12	6.45	2.03
Net Emissions (Proposed – Previous)	-0.10	-0.99	0.81	0.00	0.03	0.01
Winter						
Proposed Project CalEEMod 2020	5.02	23.27	14.83	0.12	6.47	2.04
Previous Technical Study	5.18	24.10	14.10	0.12	6.44	2.03
Net Emissions (Proposed – Previous)	-0.16	-0.83	0.73	0.00	0.03	0.01

TABLE 7: LOCALIZED CONSTRUCTION EMISSIONS (PROPOSED PROJECT VS. PREVIOUS TECHNICAL STUDY)

On-Site Emissions	Emissions (lbs/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Site Preparation				
Proposed Project CalEEMod 2020	15.04	30.31	10.45	4.32
Previous Technical Study	37.81	26.94	11.87	5.68
Net Emissions (Proposed – Previous)	-22.77	3.37	-1.42	-1.36
Grading				
Proposed Project CalEEMod 2020	12.49	24.51	5.73	1.72
Previous Technical Study	39.95	16.38	7.27	3.13
Net Emissions (Proposed – Previous)	-27.46	8.13	-1.54	-1.41

TABLE 8: LOCALIZED OPERATIONAL EMISSIONS (PROPOSED PROJECT VS. PREVIOUS TECHNICAL STUDY)

On-Site Emissions	Emissions (lbs/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Proposed Project CalEEMod 2020	3.51	3.62	0.41	0.19
Previous Technical Study	3.52	3.55	0.41	0.18
Net Emissions (Proposed – Previous)	0.01	0.07	0.00	0.01

PROJECT GHG ANALYSIS

TABLE 9: PROPOSED PROJECT CALCEEMOD 2020 GHG EMISSIONS

Emission Source	Emissions (MT/yr)			
	CO ₂	CH ₄	N ₂ O	Total CO ₂ e
Annual construction-related emissions amortized over 30 years	21.91	3.45E-03	0.00	22.23
Area Source	8.72E-03	2.00E-05	0.00	9.29E-03
Energy Source	479.64	0.03	0.01	482.22
Mobile Source (Passenger Cars)	317.91	7.07E-03	0.01	320.49
Mobile Source (Trucks)	1,265.26	0.01	0.18	1,319.11
TRUs				40.93
On-Site Equipment	50.79	0.02	0.00	51.20
Waste	31.39	1.85	0.00	77.76
Water Usage	99.91	1.25	0.03	140.07
Total CO₂e (All Sources)	2,454.00			

COMPARISON TO PREVIOUS TECHNICAL STUDY

TABLE 10: GHG EMISSIONS (PROPOSED PROJECT VS. PREVIOUS TECHNICAL STUDY)

Emission Source	Emissions (MT/yr)
	Total CO ₂ e
Proposed Project CalEEMod 2020	2,454.00
Previous Technical Study	2,708.86
Net Emissions (Proposed – Previous)	-254.86

ATTACHMENT A:

CALEEMOD CONSTRUCTION EMISSIONS MODEL OUTPUTS

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

Moreno Valley Business Center (Construction - Mitigated)

Riverside-South Coast County, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	41.12	1000sqft	0.94	41,122.00	0
Unrefrigerated Warehouse-No Rail	123.37	1000sqft	2.83	123,367.00	0
Parking Lot	186.73	1000sqft	4.29	186,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
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 -

Land Use - Total Project area is 8.06 acres.

Construction Phase - Construction is anticipated to be completed in 2022

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Trips and VMT - As Water Trucks are driven on-road, emissions associated with the operations of Water Trucks have been modeled as additional trips (two 2-way trips per Water Truck)

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

Grading - This analysis assumes that up to 8 acres (entire Project site) could be disturbed per day.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403, all Tier 4i equipment

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	40.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.95	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	3.22	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	50.00	160.00
tblGrading	AcresOfGrading	35.00	80.00
tblGrading	MaterialExported	0.00	11.00
tblLandUse	LandUseSquareFeet	41,120.00	41,122.00
tblLandUse	LandUseSquareFeet	123,370.00	123,367.00
tblLandUse	LandUseSquareFeet	186,730.00	186,733.00

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	38.65	0.00
tblSolidWaste	SolidWasteGenerationRate	115.97	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	58.00	60.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
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	0.00

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	2.12	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	9,509,000.00	0.00
tblWater	IndoorWaterUseRate	28,529,312.50	0.00

2.0 Emissions Summary

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1973	1.8287	1.4921	3.4700e-003	0.3809	0.0843	0.4652	0.1243	0.0786	0.2030	0.0000	310.3732	310.3732	0.0538	0.0101	314.7268
2022	0.8756	1.4409	1.7396	3.8700e-003	0.1387	0.0670	0.2058	0.0374	0.0630	0.1004	0.0000	347.0115	347.0115	0.0496	0.0127	352.0310
Maximum	0.8756	1.8287	1.7396	3.8700e-003	0.3809	0.0843	0.4652	0.1243	0.0786	0.2030	0.0000	347.0115	347.0115	0.0538	0.0127	352.0310

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					
2021	0.0758	0.9684	1.6889	3.4700e-003	0.2115	9.2500e-003	0.2207	0.0655	9.0800e-003	0.0745	0.0000	310.3730	310.3730	0.0538	0.0101	314.7265
2022	0.7831	1.0856	1.8775	3.8700e-003	0.1387	9.1500e-003	0.1479	0.0374	9.0000e-003	0.0464	0.0000	347.0113	347.0113	0.0496	0.0127	352.0307
Maximum	0.7831	1.0856	1.8775	3.8700e-003	0.2115	9.2500e-003	0.2207	0.0655	9.0800e-003	0.0745	0.0000	347.0113	347.0113	0.0538	0.0127	352.0307

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	19.94	37.18	-10.36	0.00	32.61	87.84	45.06	36.39	87.24	60.14	0.00	0.00	0.00	0.01	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-5-2021	10-4-2021	1.1856	0.5096
2	10-5-2021	1-4-2022	0.8234	0.5443
3	1-5-2022	4-4-2022	0.7162	0.5105
4	4-5-2022	7-4-2022	1.1205	0.9101
5	7-5-2022	9-30-2022	0.4462	0.4237
		Highest	1.1856	0.9101

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.6857	4.0000e-005	4.4900e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.6857	4.0000e-005	4.4900e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2021	7/16/2021	5	10	
2	Grading	Grading	7/17/2021	8/13/2021	5	20	
3	Building Construction	Building Construction	8/14/2021	7/1/2022	5	230	

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4	Architectural Coating	Architectural Coating	6/4/2022	7/29/2022	5	40
5	Paving	Paving	7/2/2022	7/29/2022	5	20

Acres of Grading (Site Preparation Phase): 80**Acres of Grading (Grading Phase): 160****Acres of Paving: 4.29****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 246,734; Non-Residential Outdoor: 82,245; Striped Parking Area: 11,204 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	3	8.00	212	0.43
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	2.00	1.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	148.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1328	0.0000	0.1328	0.0542	0.0000	0.0542	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.3039	0.1093	2.8000e-004		0.0132	0.0132		0.0122	0.0122	0.0000	25.0542	25.0542	8.1000e-003	0.0000	25.2568
Total	0.0267	0.3039	0.1093	2.8000e-004	0.1328	0.0132	0.1460	0.0542	0.0122	0.0664	0.0000	25.0542	25.0542	8.1000e-003	0.0000	25.2568

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3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.4000e-004	1.7000e-004	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1795	0.1795	0.0000	3.0000e-005	0.1875
Worker	3.4000e-004	2.8000e-004	3.3500e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.8039	0.8039	2.0000e-005	2.0000e-005	0.8115
Total	3.6000e-004	8.2000e-004	3.5200e-003	1.0000e-005	1.0500e-003	2.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	3.0000e-004	0.0000	0.9834	0.9834	2.0000e-005	5.0000e-005	0.9990

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0518	0.0000	0.0518	0.0212	0.0000	0.0212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0752	0.1516	2.8000e-004		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	25.0542	25.0542	8.1000e-003	0.0000	25.2567
Total	4.6600e-003	0.0752	0.1516	2.8000e-004	0.0518	4.7000e-004	0.0522	0.0212	4.7000e-004	0.0216	0.0000	25.0542	25.0542	8.1000e-003	0.0000	25.2567

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.4000e-004	1.7000e-004	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1795	0.1795	0.0000	3.0000e-005	0.1875
Worker	3.4000e-004	2.8000e-004	3.3500e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.8039	0.8039	2.0000e-005	2.0000e-005	0.8115
Total	3.6000e-004	8.2000e-004	3.5200e-003	1.0000e-005	1.0500e-003	2.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	3.0000e-004	0.0000	0.9834	0.9834	2.0000e-005	5.0000e-005	0.9990

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1451	0.0000	0.1451	0.0423	0.0000	0.0423	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0338	0.3995	0.1638	4.4000e-004		0.0161	0.0161		0.0148	0.0148	0.0000	38.5582	38.5582	0.0125	0.0000	38.8700
Total	0.0338	0.3995	0.1638	4.4000e-004	0.1451	0.0161	0.1612	0.0423	0.0148	0.0571	0.0000	38.5582	38.5582	0.0125	0.0000	38.8700

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3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	8.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0285	0.0285	0.0000	0.0000	0.0299
Vendor	4.0000e-005	1.0800e-003	3.4000e-004	0.0000	1.3000e-004	2.0000e-005	1.5000e-004	4.0000e-005	2.0000e-005	6.0000e-005	0.0000	0.3590	0.3590	0.0000	5.0000e-005	0.3750
Worker	5.7000e-004	4.6000e-004	5.5800e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3398	1.3398	4.0000e-005	4.0000e-005	1.3525
Total	6.1000e-004	1.6200e-003	5.9400e-003	1.0000e-005	1.7900e-003	3.0000e-005	1.8200e-003	4.8000e-004	3.0000e-005	5.1000e-004	0.0000	1.7273	1.7273	4.0000e-005	9.0000e-005	1.7574

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0566	0.0000	0.0566	0.0165	0.0000	0.0165	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9700e-003	0.1249	0.2451	4.4000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	38.5582	38.5582	0.0125	0.0000	38.8699
Total	6.9700e-003	0.1249	0.2451	4.4000e-004	0.0566	7.2000e-004	0.0573	0.0165	7.2000e-004	0.0172	0.0000	38.5582	38.5582	0.0125	0.0000	38.8699

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3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	8.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0285	0.0285	0.0000	0.0000	0.0299
Vendor	4.0000e-005	1.0800e-003	3.4000e-004	0.0000	1.3000e-004	2.0000e-005	1.5000e-004	4.0000e-005	2.0000e-005	6.0000e-005	0.0000	0.3590	0.3590	0.0000	5.0000e-005	0.3750
Worker	5.7000e-004	4.6000e-004	5.5800e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3398	1.3398	4.0000e-005	4.0000e-005	1.3525
Total	6.1000e-004	1.6200e-003	5.9400e-003	1.0000e-005	1.7900e-003	3.0000e-005	1.8200e-003	4.8000e-004	3.0000e-005	5.1000e-004	0.0000	1.7273	1.7273	4.0000e-005	9.0000e-005	1.7574

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1011	0.9375	0.8835	1.4400e-003		0.0513	0.0513		0.0481	0.0481	0.0000	124.1049	124.1049	0.0306	0.0000	124.8704
Total	0.1011	0.9375	0.8835	1.4400e-003		0.0513	0.0513		0.0481	0.0481	0.0000	124.1049	124.1049	0.0306	0.0000	124.8704

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3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	6.6900e-003	0.1624	0.0510	5.6000e-004	0.0190	3.2000e-003	0.0222	5.4700e-003	3.0600e-003	8.5300e-003	0.0000	53.8483	53.8483	6.1000e-004	8.0100e-003	56.2510
Worker	0.0279	0.0229	0.2751	7.2000e-004	0.0813	4.4000e-004	0.0818	0.0216	4.0000e-004	0.0220	0.0000	66.0969	66.0969	1.9100e-003	1.9400e-003	66.7223
Total	0.0346	0.1853	0.3261	1.2800e-003	0.1003	3.6400e-003	0.1039	0.0271	3.4600e-003	0.0305	0.0000	119.9452	119.9452	2.5200e-003	9.9500e-003	122.9732

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0286	0.5805	0.9568	1.4400e-003		4.3800e-003	4.3800e-003		4.3800e-003	4.3800e-003	0.0000	124.1047	124.1047	0.0306	0.0000	124.8703
Total	0.0286	0.5805	0.9568	1.4400e-003		4.3800e-003	4.3800e-003		4.3800e-003	4.3800e-003	0.0000	124.1047	124.1047	0.0306	0.0000	124.8703

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3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	6.6900e-003	0.1624	0.0510	5.6000e-004	0.0190	3.2000e-003	0.0222	5.4700e-003	3.0600e-003	8.5300e-003	0.0000	53.8483	53.8483	6.1000e-004	8.0100e-003	56.2510
Worker	0.0279	0.0229	0.2751	7.2000e-004	0.0813	4.4000e-004	0.0818	0.0216	4.0000e-004	0.0220	0.0000	66.0969	66.0969	1.9100e-003	1.9400e-003	66.7223
Total	0.0346	0.1853	0.3261	1.2800e-003	0.1003	3.6400e-003	0.1039	0.0271	3.4600e-003	0.0305	0.0000	119.9452	119.9452	2.5200e-003	9.9500e-003	122.9732

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1180	1.0899	1.1336	1.8700e-003		0.0562	0.0562		0.0528	0.0528	0.0000	161.4017	161.4017	0.0396	0.0000	162.3909
Total	0.1180	1.0899	1.1336	1.8700e-003		0.0562	0.0562		0.0528	0.0528	0.0000	161.4017	161.4017	0.0396	0.0000	162.3909

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	6.2000e-003	0.1731	0.0583	7.1000e-004	0.0246	2.3800e-003	0.0270	7.1100e-003	2.2800e-003	9.3900e-003	0.0000	68.2958	68.2958	7.2000e-004	0.0101	71.3339
Worker	0.0336	0.0262	0.3277	9.1000e-004	0.1057	5.4000e-004	0.1063	0.0281	4.9000e-004	0.0286	0.0000	83.6092	83.6092	2.2300e-003	2.3100e-003	84.3546
Total	0.0398	0.1993	0.3860	1.6200e-003	0.1304	2.9200e-003	0.1333	0.0352	2.7700e-003	0.0380	0.0000	151.9050	151.9050	2.9500e-003	0.0124	155.6885

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0371	0.7547	1.2438	1.8700e-003		5.7000e-003	5.7000e-003		5.7000e-003	5.7000e-003	0.0000	161.4015	161.4015	0.0396	0.0000	162.3908
Total	0.0371	0.7547	1.2438	1.8700e-003		5.7000e-003	5.7000e-003		5.7000e-003	5.7000e-003	0.0000	161.4015	161.4015	0.0396	0.0000	162.3908

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3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	6.2000e-003	0.1731	0.0583	7.1000e-004	0.0246	2.3800e-003	0.0270	7.1100e-003	2.2800e-003	9.3900e-003	0.0000	68.2958	68.2958	7.2000e-004	0.0101	71.3339
Worker	0.0336	0.0262	0.3277	9.1000e-004	0.1057	5.4000e-004	0.1063	0.0281	4.9000e-004	0.0286	0.0000	83.6092	83.6092	2.2300e-003	2.3100e-003	84.3546
Total	0.0398	0.1993	0.3860	1.6200e-003	0.1304	2.9200e-003	0.1333	0.0352	2.7700e-003	0.0380	0.0000	151.9050	151.9050	2.9500e-003	0.0124	155.6885

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6931					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4500e-003	0.0376	0.0484	8.0000e-005		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	6.8087	6.8087	4.4000e-004	0.0000	6.8198
Total	0.6985	0.0376	0.0484	8.0000e-005		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	6.8087	6.8087	4.4000e-004	0.0000	6.8198

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3.5 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-003	1.6300e-003	0.0204	6.0000e-005	6.5900e-003	3.0000e-005	6.6300e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	5.2147	5.2147	1.4000e-004	1.4000e-004	5.2612
Total	2.1000e-003	1.6300e-003	0.0204	6.0000e-005	6.5900e-003	3.0000e-005	6.6300e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	5.2147	5.2147	1.4000e-004	1.4000e-004	5.2612

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6931					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	0.0283	0.0489	8.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	6.8087	6.8087	4.4000e-004	0.0000	6.8198
Total	0.6945	0.0283	0.0489	8.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	6.8087	6.8087	4.4000e-004	0.0000	6.8198

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

3.5 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-003	1.6300e-003	0.0204	6.0000e-005	6.5900e-003	3.0000e-005	6.6300e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	5.2147	5.2147	1.4000e-004	1.4000e-004	5.2612
Total	2.1000e-003	1.6300e-003	0.0204	6.0000e-005	6.5900e-003	3.0000e-005	6.6300e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	5.2147	5.2147	1.4000e-004	1.4000e-004	5.2612

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	5.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0167	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	8.9000e-004	3.0000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3502	0.3502	0.0000	5.0000e-005	0.3658
Worker	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153
Total	5.5000e-004	1.3000e-003	5.4100e-003	1.0000e-005	1.7800e-003	2.0000e-005	1.8000e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	1.6539	1.6539	3.0000e-005	9.0000e-005	1.6811

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.3400e-003	0.1004	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	5.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.9600e-003	0.1004	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Paving - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	8.9000e-004	3.0000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3502	0.3502	0.0000	5.0000e-005	0.3658
Worker	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153
Total	5.5000e-004	1.3000e-003	5.4100e-003	1.0000e-005	1.7800e-003	2.0000e-005	1.8000e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	1.6539	1.6539	3.0000e-005	9.0000e-005	1.6811

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Refrigerated Warehouse-No Rail	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

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

5.0 Energy Detail

5.1 Mitigation Measures Energy

[illegible]

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

Unmitigated

[illegible]

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

Mitigated

[illegible]

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Unmitigated	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003

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	0.0788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-004	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Total	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-004	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Total	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

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

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

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

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

Boilers

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

User Defined Equipment

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

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Annual

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

11.0 Vegetation

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Moreno Valley Business Center (Construction - Mitigated)**

Riverside-South Coast County, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	41.12	1000sqft	0.94	41,122.00	0
Unrefrigerated Warehouse-No Rail	123.37	1000sqft	2.83	123,367.00	0
Parking Lot	186.73	1000sqft	4.29	186,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
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 -

Land Use - Total Project area is 8.06 acres.

Construction Phase - Construction is anticipated to be completed in 2022

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Trips and VMT - As Water Trucks are driven on-road, emissions associated with the operations of Water Trucks have been modeled as additional trips (two 2-way trips per Water Truck)

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

Grading - This analysis assumes that up to 8 acres (entire Project site) could be disturbed per day.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403, all Tier 4i equipment

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	40.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.95	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	3.22	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	50.00	160.00
tblGrading	AcresOfGrading	35.00	80.00
tblGrading	MaterialExported	0.00	11.00
tblLandUse	LandUseSquareFeet	41,120.00	41,122.00
tblLandUse	LandUseSquareFeet	123,370.00	123,367.00
tblLandUse	LandUseSquareFeet	186,730.00	186,733.00

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	38.65	0.00
tblSolidWaste	SolidWasteGenerationRate	115.97	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	58.00	60.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
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	0.00

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	2.12	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	9,509,000.00	0.00
tblWater	IndoorWaterUseRate	28,529,312.50	0.00

2.0 Emissions Summary

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.4241	60.9414	25.1231	0.0593	26.7643	2.6492	29.4135	10.9038	2.4373	13.3412	0.0000	5,754.306 3	5,754.306 3	1.7920	0.2174	5,802.343 2
2022	37.5401	21.6368	27.8356	0.0618	2.3739	1.0200	3.3939	0.6383	0.9653	1.6036	0.0000	6,109.787 7	6,109.787 7	0.7533	0.2169	6,193.264 7
Maximum	37.5401	60.9414	27.8356	0.0618	26.7643	2.6492	29.4135	10.9038	2.4373	13.3412	0.0000	6,109.787 7	6,109.787 7	1.7920	0.2174	6,193.264 7

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.3384	15.1950	31.1306	0.0593	10.5686	0.1604	10.6651	4.2873	0.1569	4.3836	0.0000	5,754.306 3	5,754.306 3	1.7920	0.2174	5,802.343 2
2022	36.0968	16.0155	29.5576	0.0618	2.3739	0.1395	2.5134	0.6383	0.1371	0.7754	0.0000	6,109.787 7	6,109.787 7	0.7533	0.2169	6,193.264 7
Maximum	36.0968	16.0155	31.1306	0.0618	10.5686	0.1604	10.6651	4.2873	0.1569	4.3836	0.0000	6,109.787 7	6,109.787 7	1.7920	0.2174	6,193.264 7

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	12.87	62.20	-14.60	0.00	55.58	91.83	59.83	57.33	91.36	65.48	0.00	0.00	0.00	0.00	0.00	0.00

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7584	3.3000e-004	0.0359	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004	0.0000	0.0819

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	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7584	3.3000e-004	0.0359	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004	0.0000	0.0819

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2021	7/16/2021	5	10	
2	Grading	Grading	7/17/2021	8/13/2021	5	20	
3	Building Construction	Building Construction	8/14/2021	7/1/2022	5	230	
4	Architectural Coating	Architectural Coating	6/4/2022	7/29/2022	5	40	
5	Paving	Paving	7/2/2022	7/29/2022	5	20	

Acres of Grading (Site Preparation Phase): 80**Acres of Grading (Grading Phase): 160****Acres of Paving: 4.29****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 246,734; Non-Residential Outdoor: 82,245; Striped Parking Area: 11,204 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	3	8.00	212	0.43
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	2.00	1.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	148.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					26.5503	0.0000	26.5503	10.8468	0.0000	10.8468			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343		5,523.504 7	5,523.504 7	1.7864		5,568.165 1
Total	5.3428	60.7861	21.8537	0.0570	26.5503	2.6460	29.1963	10.8468	2.4343	13.2811		5,523.504 7	5,523.504 7	1.7864		5,568.165 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5300e-003	0.1030	0.0334	3.7000e-004	0.0128	2.1300e-003	0.0149	3.6900e-003	2.0400e-003	5.7300e-003		39.5607	39.5607	4.5000e-004	5.8800e-003	41.3247
Worker	0.0768	0.0522	0.7844	1.8900e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		191.2409	191.2409	5.1400e-003	4.9800e-003	192.8534
Total	0.0813	0.1553	0.8178	2.2600e-003	0.2140	3.2000e-003	0.2172	0.0571	3.0200e-003	0.0601		230.8016	230.8016	5.5900e-003	0.0109	234.1781

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					10.3546	0.0000	10.3546	4.2302	0.0000	4.2302			0.0000			0.0000
Off-Road	0.9327	15.0398	30.3128	0.0570		0.0933	0.0933		0.0933	0.0933	0.0000	5,523.504 7	5,523.504 7	1.7864		5,568.165 1
Total	0.9327	15.0398	30.3128	0.0570	10.3546	0.0933	10.4479	4.2302	0.0933	4.3235	0.0000	5,523.504 7	5,523.504 7	1.7864		5,568.165 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5300e-003	0.1030	0.0334	3.7000e-004	0.0128	2.1300e-003	0.0149	3.6900e-003	2.0400e-003	5.7300e-003		39.5607	39.5607	4.5000e-004	5.8800e-003	41.3247
Worker	0.0768	0.0522	0.7844	1.8900e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		191.2409	191.2409	5.1400e-003	4.9800e-003	192.8534
Total	0.0813	0.1553	0.8178	2.2600e-003	0.2140	3.2000e-003	0.2172	0.0571	3.0200e-003	0.0601		230.8016	230.8016	5.5900e-003	0.0109	234.1781

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					14.5062	0.0000	14.5062	4.2263	0.0000	4.2263			0.0000			0.0000
Off-Road	3.3813	39.9534	16.3820	0.0439		1.6111	1.6111		1.4822	1.4822		4,250.314 4	4,250.314 4	1.3746		4,284.680 3
Total	3.3813	39.9534	16.3820	0.0439	14.5062	1.6111	16.1172	4.2263	1.4822	5.7085		4,250.314 4	4,250.314 4	1.3746		4,284.680 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2000e-004	7.3800e-003	1.6200e-003	3.0000e-005	8.8000e-004	1.2000e-004	1.0000e-003	2.4000e-004	1.2000e-004	3.6000e-004		3.1457	3.1457	4.0000e-005	5.0000e-004	3.2944
Vendor	4.5300e-003	0.1030	0.0334	3.7000e-004	0.0128	2.1300e-003	0.0149	3.6900e-003	2.0400e-003	5.7300e-003		39.5607	39.5607	4.5000e-004	5.8800e-003	41.3247
Worker	0.0640	0.0435	0.6537	1.5700e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		159.3674	159.3674	4.2900e-003	4.1500e-003	160.7112
Total	0.0687	0.1539	0.6887	1.9700e-003	0.1814	3.1400e-003	0.1845	0.0484	2.9800e-003	0.0514		202.0738	202.0738	4.7800e-003	0.0105	205.3303

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.6574	0.0000	5.6574	1.6483	0.0000	1.6483			0.0000			0.0000
Off-Road	0.6970	12.4911	24.5051	0.0439		0.0718	0.0718		0.0718	0.0718	0.0000	4,250.314 4	4,250.314 4	1.3746		4,284.680 3
Total	0.6970	12.4911	24.5051	0.0439	5.6574	0.0718	5.7292	1.6483	0.0718	1.7201	0.0000	4,250.314 4	4,250.314 4	1.3746		4,284.680 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2000e-004	7.3800e-003	1.6200e-003	3.0000e-005	8.8000e-004	1.2000e-004	1.0000e-003	2.4000e-004	1.2000e-004	3.6000e-004		3.1457	3.1457	4.0000e-005	5.0000e-004	3.2944
Vendor	4.5300e-003	0.1030	0.0334	3.7000e-004	0.0128	2.1300e-003	0.0149	3.6900e-003	2.0400e-003	5.7300e-003		39.5607	39.5607	4.5000e-004	5.8800e-003	41.3247
Worker	0.0640	0.0435	0.6537	1.5700e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		159.3674	159.3674	4.2900e-003	4.1500e-003	160.7112
Total	0.0687	0.1539	0.6887	1.9700e-003	0.1814	3.1400e-003	0.1845	0.0484	2.9800e-003	0.0514		202.0738	202.0738	4.7800e-003	0.0105	205.3303

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212
Total	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1359	3.0910	1.0029	0.0112	0.3843	0.0639	0.4482	0.1107	0.0611	0.1718		1,186.8202	1,186.8202	0.0136	0.1765	1,239.7408
Worker	0.6311	0.4294	6.4496	0.0155	1.6543	8.7900e-003	1.6631	0.4387	8.1000e-003	0.4468		1,572.4253	1,572.4253	0.0423	0.0409	1,585.6837
Total	0.7670	3.5204	7.4525	0.0267	2.0386	0.0727	2.1113	0.5494	0.0692	0.6186		2,759.2455	2,759.2455	0.0559	0.2174	2,825.4245

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2021****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	11.6107	19.1360	0.0288		0.0877	0.0877		0.0877	0.0877	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212
Total	0.5714	11.6107	19.1360	0.0288		0.0877	0.0877		0.0877	0.0877	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1359	3.0910	1.0029	0.0112	0.3843	0.0639	0.4482	0.1107	0.0611	0.1718		1,186.8202	1,186.8202	0.0136	0.1765	1,239.7408
Worker	0.6311	0.4294	6.4496	0.0155	1.6543	8.7900e-003	1.6631	0.4387	8.1000e-003	0.4468		1,572.4253	1,572.4253	0.0423	0.0409	1,585.6837
Total	0.7670	3.5204	7.4525	0.0267	2.0386	0.0727	2.1113	0.5494	0.0692	0.6186		2,759.2455	2,759.2455	0.0559	0.2174	2,825.4245

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0976	2.5372	0.8822	0.0109	0.3843	0.0366	0.4209	0.1107	0.0350	0.1457		1,157.6720	1,157.6720	0.0123	0.1717	1,209.1383
Worker	0.5832	0.3780	5.9001	0.0150	1.6543	8.2500e-003	1.6625	0.4387	7.5900e-003	0.4463		1,529.6379	1,529.6379	0.0379	0.0376	1,541.7964
Total	0.6809	2.9151	6.7823	0.0260	2.0386	0.0448	2.0834	0.5494	0.0426	0.5920		2,687.3099	2,687.3099	0.0501	0.2093	2,750.9347

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5714	11.6107	19.1360	0.0288		0.0877	0.0877		0.0877	0.0877	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	0.5714	11.6107	19.1360	0.0288		0.0877	0.0877		0.0877	0.0877	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0976	2.5372	0.8822	0.0109	0.3843	0.0366	0.4209	0.1107	0.0350	0.1457		1,157.6720	1,157.6720	0.0123	0.1717	1,209.1383
Worker	0.5832	0.3780	5.9001	0.0150	1.6543	8.2500e-003	1.6625	0.4387	7.5900e-003	0.4463		1,529.6379	1,529.6379	0.0379	0.0376	1,541.7964
Total	0.6809	2.9151	6.7823	0.0260	2.0386	0.0448	2.0834	0.5494	0.0426	0.5920		2,687.3099	2,687.3099	0.0501	0.2093	2,750.9347

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.6536					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	34.9264	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1182	0.0766	1.1960	3.0500e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5400e-003	0.0905		310.0617	310.0617	7.6800e-003	7.6300e-003	312.5263
Total	0.1182	0.0766	1.1960	3.0500e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5400e-003	0.0905		310.0617	310.0617	7.6800e-003	7.6300e-003	312.5263

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.6536					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0726	1.4131	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0244		375.8749
Total	34.7263	1.4131	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0244		375.8749

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1182	0.0766	1.1960	3.0500e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5400e-003	0.0905		310.0617	310.0617	7.6800e-003	7.6300e-003	312.5263
Total	0.1182	0.0766	1.1960	3.0500e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5400e-003	0.0905		310.0617	310.0617	7.6800e-003	7.6300e-003	312.5263

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6648	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2500e-003	0.0846	0.0294	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.5891	38.5891	4.1000e-004	5.7200e-003	40.3046
Worker	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
Total	0.0624	0.1229	0.6274	1.8800e-003	0.1805	2.0600e-003	0.1825	0.0482	1.9400e-003	0.0501		193.6199	193.6199	4.2500e-003	9.5300e-003	196.5678

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

3.6 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8961	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2500e-003	0.0846	0.0294	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.5891	38.5891	4.1000e-004	5.7200e-003	40.3046
Worker	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
Total	0.0624	0.1229	0.6274	1.8800e-003	0.1805	2.0600e-003	0.1825	0.0482	1.9400e-003	0.0501		193.6199	193.6199	4.2500e-003	9.5300e-003	196.5678

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

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

4.3 Trip Type Information

[illegible]

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Refrigerated Warehouse-No Rail	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Unrefrigerated Warehouse-No Rail	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

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					
Parking Lot	0	0.0000	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	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	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	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Unmitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

7.0 Water Detail

7.1 Mitigation Measures Water

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

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

11.0 Vegetation

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Moreno Valley Business Center (Construction - Mitigated)**

Riverside-South Coast County, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	41.12	1000sqft	0.94	41,122.00	0
Unrefrigerated Warehouse-No Rail	123.37	1000sqft	2.83	123,367.00	0
Parking Lot	186.73	1000sqft	4.29	186,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
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 -

Land Use - Total Project area is 8.06 acres.

Construction Phase - Construction is anticipated to be completed in 2022

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Trips and VMT - As Water Trucks are driven on-road, emissions associated with the operations of Water Trucks have been modeled as additional trips (two 2-way trips per Water Truck)

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

Grading - This analysis assumes that up to 8 acres (entire Project site) could be disturbed per day.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403, all Tier 4i equipment

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	40.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.95	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	3.22	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	50.00	160.00
tblGrading	AcresOfGrading	35.00	80.00
tblGrading	MaterialExported	0.00	11.00
tblLandUse	LandUseSquareFeet	41,120.00	41,122.00
tblLandUse	LandUseSquareFeet	123,370.00	123,367.00
tblLandUse	LandUseSquareFeet	186,730.00	186,733.00

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	38.65	0.00
tblSolidWaste	SolidWasteGenerationRate	115.97	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	58.00	60.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
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	0.00

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	2.12	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	9,509,000.00	0.00
tblWater	IndoorWaterUseRate	28,529,312.50	0.00

2.0 Emissions Summary

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.4187	60.9487	23.9255	0.0591	26.7643	2.6492	29.4135	10.9038	2.4373	13.3412	0.0000	5,736.255 ₉	5,736.255 ₉	1.7920	0.2186	5,784.329 ₄
2022	37.4897	21.7898	26.5243	0.0601	2.3739	1.0201	3.3940	0.6383	0.9654	1.6037	0.0000	5,937.740 ₁	5,937.740 ₁	0.7528	0.2183	6,021.620 ₃
Maximum	37.4897	60.9487	26.5243	0.0601	26.7643	2.6492	29.4135	10.9038	2.4373	13.3412	0.0000	5,937.740 ₁	5,937.740 ₁	1.7920	0.2186	6,021.620 ₃

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					
2021	1.2912	15.3060	30.9818	0.0591	10.5686	0.1605	10.6651	4.2873	0.1570	4.3836	0.0000	5,736.255 ₈	5,736.255 ₈	1.7920	0.2186	5,784.329 ₄
2022	36.0464	16.1686	28.2463	0.0601	2.3739	0.1396	2.5135	0.6383	0.1372	0.7755	0.0000	5,937.740 ₁	5,937.740 ₁	0.7528	0.2183	6,021.620 ₃
Maximum	36.0464	16.1686	30.9818	0.0601	10.5686	0.1605	10.6651	4.2873	0.1570	4.3836	0.0000	5,937.740 ₁	5,937.740 ₁	1.7920	0.2186	6,021.620 ₃

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	12.98	61.96	-17.40	0.00	55.58	91.82	59.83	57.33	91.35	65.48	0.00	0.00	0.00	0.00	0.00	0.00

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7584	3.3000e-004	0.0359	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004	0.0000	0.0819

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	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7584	3.3000e-004	0.0359	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004	0.0000	0.0819

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2021	7/16/2021	5	10	
2	Grading	Grading	7/17/2021	8/13/2021	5	20	
3	Building Construction	Building Construction	8/14/2021	7/1/2022	5	230	
4	Architectural Coating	Architectural Coating	6/4/2022	7/29/2022	5	40	
5	Paving	Paving	7/2/2022	7/29/2022	5	20	

Acres of Grading (Site Preparation Phase): 80**Acres of Grading (Grading Phase): 160****Acres of Paving: 4.29****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 246,734; Non-Residential Outdoor: 82,245; Striped Parking Area: 11,204 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	3	8.00	212	0.43
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	2.00	1.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	148.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					26.5503	0.0000	26.5503	10.8468	0.0000	10.8468			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343		5,523.504 7	5,523.504 7	1.7864		5,568.165 1
Total	5.3428	60.7861	21.8537	0.0570	26.5503	2.6460	29.1963	10.8468	2.4343	13.2811		5,523.504 7	5,523.504 7	1.7864		5,568.165 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4100e-003	0.1083	0.0346	3.7000e-004	0.0128	2.1300e-003	0.0149	3.6900e-003	2.0400e-003	5.7300e-003		39.5869	39.5869	4.5000e-004	5.8900e-003	41.3533
Worker	0.0715	0.0542	0.6344	1.7100e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		173.1643	173.1643	5.0900e-003	5.1000e-003	174.8110
Total	0.0759	0.1626	0.6690	2.0800e-003	0.2140	3.2000e-003	0.2172	0.0571	3.0200e-003	0.0601		212.7511	212.7511	5.5400e-003	0.0110	216.1643

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					10.3546	0.0000	10.3546	4.2302	0.0000	4.2302			0.0000			0.0000
Off-Road	0.9327	15.0398	30.3128	0.0570		0.0933	0.0933		0.0933	0.0933	0.0000	5,523.504 7	5,523.504 7	1.7864		5,568.165 1
Total	0.9327	15.0398	30.3128	0.0570	10.3546	0.0933	10.4479	4.2302	0.0933	4.3235	0.0000	5,523.504 7	5,523.504 7	1.7864		5,568.165 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4100e-003	0.1083	0.0346	3.7000e-004	0.0128	2.1300e-003	0.0149	3.6900e-003	2.0400e-003	5.7300e-003		39.5869	39.5869	4.5000e-004	5.8900e-003	41.3533
Worker	0.0715	0.0542	0.6344	1.7100e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		173.1643	173.1643	5.0900e-003	5.1000e-003	174.8110
Total	0.0759	0.1626	0.6690	2.0800e-003	0.2140	3.2000e-003	0.2172	0.0571	3.0200e-003	0.0601		212.7511	212.7511	5.5400e-003	0.0110	216.1643

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					14.5062	0.0000	14.5062	4.2263	0.0000	4.2263			0.0000			0.0000
Off-Road	3.3813	39.9534	16.3820	0.0439		1.6111	1.6111		1.4822	1.4822		4,250.314 4	4,250.314 4	1.3746		4,284.680 3
Total	3.3813	39.9534	16.3820	0.0439	14.5062	1.6111	16.1172	4.2263	1.4822	5.7085		4,250.314 4	4,250.314 4	1.3746		4,284.680 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2000e-004	7.7700e-003	1.6600e-003	3.0000e-005	8.8000e-004	1.2000e-004	1.0000e-003	2.4000e-004	1.2000e-004	3.6000e-004		3.1474	3.1474	4.0000e-005	5.0000e-004	3.2962
Vendor	4.4100e-003	0.1083	0.0346	3.7000e-004	0.0128	2.1300e-003	0.0149	3.6900e-003	2.0400e-003	5.7300e-003		39.5869	39.5869	4.5000e-004	5.8900e-003	41.3533
Worker	0.0596	0.0452	0.5286	1.4200e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		144.3036	144.3036	4.2400e-003	4.2500e-003	145.6759
Total	0.0642	0.1613	0.5649	1.8200e-003	0.1814	3.1400e-003	0.1845	0.0484	2.9800e-003	0.0514		187.0379	187.0379	4.7300e-003	0.0106	190.3254

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.6574	0.0000	5.6574	1.6483	0.0000	1.6483			0.0000			0.0000
Off-Road	0.6970	12.4911	24.5051	0.0439		0.0718	0.0718		0.0718	0.0718	0.0000	4,250.314 4	4,250.314 4	1.3746		4,284.680 3
Total	0.6970	12.4911	24.5051	0.0439	5.6574	0.0718	5.7292	1.6483	0.0718	1.7201	0.0000	4,250.314 4	4,250.314 4	1.3746		4,284.680 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2000e-004	7.7700e-003	1.6600e-003	3.0000e-005	8.8000e-004	1.2000e-004	1.0000e-003	2.4000e-004	1.2000e-004	3.6000e-004		3.1474	3.1474	4.0000e-005	5.0000e-004	3.2962
Vendor	4.4100e-003	0.1083	0.0346	3.7000e-004	0.0128	2.1300e-003	0.0149	3.6900e-003	2.0400e-003	5.7300e-003		39.5869	39.5869	4.5000e-004	5.8900e-003	41.3533
Worker	0.0596	0.0452	0.5286	1.4200e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		144.3036	144.3036	4.2400e-003	4.2500e-003	145.6759
Total	0.0642	0.1613	0.5649	1.8200e-003	0.1814	3.1400e-003	0.1845	0.0484	2.9800e-003	0.0514		187.0379	187.0379	4.7300e-003	0.0106	190.3254

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212
Total	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1322	3.2495	1.0390	0.0112	0.3843	0.0640	0.4483	0.1107	0.0613	0.1719		1,187.6059	1,187.6059	0.0134	0.1767	1,240.5997
Worker	0.5875	0.4459	5.2159	0.0141	1.6543	8.7900e-003	1.6631	0.4387	8.1000e-003	0.4468		1,423.7950	1,423.7950	0.0419	0.0419	1,437.3350
Total	0.7197	3.6953	6.2549	0.0253	2.0386	0.0728	2.1114	0.5494	0.0694	0.6187		2,611.4009	2,611.4009	0.0553	0.2186	2,677.9347

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	11.6107	19.1360	0.0288		0.0877	0.0877		0.0877	0.0877	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212
Total	0.5714	11.6107	19.1360	0.0288		0.0877	0.0877		0.0877	0.0877	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1322	3.2495	1.0390	0.0112	0.3843	0.0640	0.4483	0.1107	0.0613	0.1719		1,187.6059	1,187.6059	0.0134	0.1767	1,240.5997
Worker	0.5875	0.4459	5.2159	0.0141	1.6543	8.7900e-003	1.6631	0.4387	8.1000e-003	0.4468		1,423.7950	1,423.7950	0.0419	0.0419	1,437.3350
Total	0.7197	3.6953	6.2549	0.0253	2.0386	0.0728	2.1114	0.5494	0.0694	0.6187		2,611.4009	2,611.4009	0.0553	0.2186	2,677.9347

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0935	2.6730	0.9161	0.0109	0.3843	0.0367	0.4210	0.1107	0.0351	0.1457		1,158.9346	1,158.9346	0.0121	0.1720	1,210.4921
Worker	0.5449	0.3923	4.7817	0.0136	1.6543	8.2500e-003	1.6625	0.4387	7.5900e-003	0.4463		1,385.5373	1,385.5373	0.0376	0.0385	1,397.9552
Total	0.6383	3.0653	5.6977	0.0246	2.0386	0.0449	2.0835	0.5494	0.0427	0.5921		2,544.4719	2,544.4719	0.0497	0.2105	2,608.4473

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5714	11.6107	19.1360	0.0288		0.0877	0.0877		0.0877	0.0877	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	0.5714	11.6107	19.1360	0.0288		0.0877	0.0877		0.0877	0.0877	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0935	2.6730	0.9161	0.0109	0.3843	0.0367	0.4210	0.1107	0.0351	0.1457		1,158.9346	1,158.9346	0.0121	0.1720	1,210.4921
Worker	0.5449	0.3923	4.7817	0.0136	1.6543	8.2500e-003	1.6625	0.4387	7.5900e-003	0.4463		1,385.5373	1,385.5373	0.0376	0.0385	1,397.9552
Total	0.6383	3.0653	5.6977	0.0246	2.0386	0.0449	2.0835	0.5494	0.0427	0.5921		2,544.4719	2,544.4719	0.0497	0.2105	2,608.4473

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.6536					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	34.9264	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1104	0.0795	0.9693	2.7600e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5400e-003	0.0905		280.8522	280.8522	7.6300e-003	7.8100e-003	283.3693
Total	0.1104	0.0795	0.9693	2.7600e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5400e-003	0.0905		280.8522	280.8522	7.6300e-003	7.8100e-003	283.3693

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

3.5 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.6536					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0726	1.4131	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0244		375.8749
Total	34.7263	1.4131	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0244		375.8749

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1104	0.0795	0.9693	2.7600e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5400e-003	0.0905		280.8522	280.8522	7.6300e-003	7.8100e-003	283.3693
Total	0.1104	0.0795	0.9693	2.7600e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5400e-003	0.0905		280.8522	280.8522	7.6300e-003	7.8100e-003	283.3693

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6648	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1200e-003	0.0891	0.0305	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.6312	38.6312	4.0000e-004	5.7300e-003	40.3497
Worker	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
Total	0.0583	0.1289	0.5152	1.7400e-003	0.1805	2.0600e-003	0.1825	0.0482	1.9400e-003	0.0501		179.0572	179.0572	4.2100e-003	9.6300e-003	182.0344

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

3.6 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8961	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1200e-003	0.0891	0.0305	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.6312	38.6312	4.0000e-004	5.7300e-003	40.3497
Worker	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
Total	0.0583	0.1289	0.5152	1.7400e-003	0.1805	2.0600e-003	0.1825	0.0482	1.9400e-003	0.0501		179.0572	179.0572	4.2100e-003	9.6300e-003	182.0344

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

4.1 Mitigation Measures Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

[illegible]

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Refrigerated Warehouse-No Rail	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Unrefrigerated Warehouse-No Rail	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - 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					
Parking Lot	0	0.0000	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	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	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	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Unmitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

7.0 Water Detail

7.1 Mitigation Measures Water

Moreno Valley Business Center (Construction - Mitigated) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

ATTACHMENT B:

CALEEMOD OPERATIONAL EMISSIONS MODEL OUTPUTS

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

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

Moreno Valley Business Center (Operations - Passenger Cars)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	41.12	1000sqft	0.94	41,122.00	0
Unrefrigerated Warehouse-No Rail	123.37	1000sqft	2.83	123,367.00	0
Parking Lot	186.73	1000sqft	4.29	186,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
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 -

Land Use - Total Project Area is 8.06 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics are based on information provided in the Traffic analysis by Urban Crossroads, Inc.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

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

Energy Use -

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, and MDV).

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.53	0.59
tblFleetMix	LDA	0.53	0.59
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.3000e-004	0.00

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

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

tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblLandUse	LandUseSquareFeet	41,120.00	41,122.00
tblLandUse	LandUseSquareFeet	123,370.00	123,367.00
tblLandUse	LandUseSquareFeet	186,730.00	186,733.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
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	1.41
tblVehicleTrips	ST_TR	1.74	0.11
tblVehicleTrips	SU_TR	2.12	1.41

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

tblVehicleTrips	SU_TR	1.74	0.04
tblVehicleTrips	WD_TR	2.12	1.41
tblVehicleTrips	WD_TR	1.74	1.28

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible]

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
Mobile	0.4642	0.5446	8.6002	0.0254	2.7227	0.0124	2.7350	0.7218	0.0114	0.7331		2,582.8174	2,582.8174	0.0535	0.0584	2,601.5417
Offroad	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	4.4147	2.4505	9.9306	0.0324	2.7227	0.1047	2.8274	0.7218	0.1002	0.8220	0.0000	3,655.2610	3,655.2610	0.1676	0.0724	3,681.0203

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
Mobile	0.4642	0.5446	8.6002	0.0254	2.7227	0.0124	2.7350	0.7218	0.0114	0.7331		2,582.8174	2,582.8174	0.0535	0.0584	2,601.5417
Offroad	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	4.4147	2.4505	9.9306	0.0324	2.7227	0.1047	2.8274	0.7218	0.1002	0.8220	0.0000	3,655.2610	3,655.2610	0.1676	0.0724	3,681.0203

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/5/2021	7/4/2021	5	0	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0**

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

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Demolition - 2021

[illegible]

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

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Demolition - 2021****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

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

Unrefrigerated Warehouse-No Rail	0.588400	0.061800	0.190600	0.159200	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0702	0.6380	0.5359	3.8300e- 003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
NaturalGas Unmitigated	0.0702	0.6380	0.5359	3.8300e- 003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****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					
Parking Lot	0	0.0000	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	5828.06	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434		685.6539	685.6539	0.0131	0.0126	689.7283
Unrefrigerated Warehouse-No Rail	679.363	7.3300e-003	0.0666	0.0560	4.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003		79.9251	79.9251	1.5300e-003	1.4700e-003	80.4001
Total		0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	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	5.82806	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434		685.6539	685.6539	0.0131	0.0126	689.7283
Unrefrigerated Warehouse-No Rail	0.679363	7.3300e-003	0.0666	0.0560	4.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003		79.9251	79.9251	1.5300e-003	1.4700e-003	80.4001
Total		0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

6.0 Area Detail**6.1 Mitigation Measures Area**

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Unmitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

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
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
Tractors/Loaders/Backhoes	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Moreno Valley Business Center (Operations - Trucks)****Riverside-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	41.12	1000sqft	0.94	41,122.00	0
Unrefrigerated Warehouse-No Rail	123.37	1000sqft	2.83	123,367.00	0
Parking Lot	186.73	1000sqft	4.29	186,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
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 -

Land Use - Total Project Area is 8.06 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics are based on information provided in the Traffic analysis by Urban Crossroads, Inc.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

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

Energy Use -

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Analysis.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.02	0.53
tblFleetMix	HHD	0.02	0.63
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.35
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.12
tblFleetMix	MHD	0.01	0.20
tblFleetMix	OBUS	6.3000e-004	0.00

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

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

tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblLandUse	LandUseSquareFeet	41,120.00	41,122.00
tblLandUse	LandUseSquareFeet	123,370.00	123,367.00
tblLandUse	LandUseSquareFeet	186,730.00	186,733.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
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	0.83

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

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

tblVehicleTrips	ST_TR	1.74	0.04
tblVehicleTrips	SU_TR	2.12	0.83
tblVehicleTrips	SU_TR	1.74	0.02
tblVehicleTrips	WD_TR	2.12	0.83
tblVehicleTrips	WD_TR	1.74	0.49

2.0 Emissions Summary

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

Unmitigated Construction

Mitigated Construction

[illegible]

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
Mobile	0.4902	18.0207	4.1361	0.0880	3.3519	0.2506	3.6025	0.9405	0.2397	1.1802		9,322.6109	9,322.6109	0.1053	1.3274	9,720.7951
Offroad	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	4.4407	19.9266	5.4665	0.0950	3.3519	0.3430	3.6949	0.9405	0.3286	1.2690	0.0000	10,395.0544	10,395.0544	0.2193	1.3414	10,800.2737

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
Mobile	0.4902	18.0207	4.1361	0.0880	3.3519	0.2506	3.6025	0.9405	0.2397	1.1802		9,322.6109	9,322.6109	0.1053	1.3274	9,720.7951
Offroad	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	4.4407	19.9266	5.4665	0.0950	3.3519	0.3430	3.6949	0.9405	0.3286	1.2690	0.0000	10,395.0544	10,395.0544	0.2193	1.3414	10,800.2737

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/5/2021	7/4/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

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

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Demolition - 2021

[illegible]

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

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Demolition - 2021****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4902	18.0207	4.1361	0.0880	3.3519	0.2506	3.6025	0.9405	0.2397	1.1802		9,322.6109	9,322.6109	0.1053	1.3274	9,720.7951
Unmitigated	0.4902	18.0207	4.1361	0.0880	3.3519	0.2506	3.6025	0.9405	0.2397	1.1802		9,322.6109	9,322.6109	0.1053	1.3274	9,720.7951

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	34.13	34.13	34.13	496,927	496,927
Unrefrigerated Warehouse-No Rail	60.45	4.93	2.47	644,090	644,090
Total	94.58	39.06	36.60	1,141,017	1,141,017

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	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
Parking Lot	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.352900	0.000000	0.117600	0.529500	0.000000	0.000000	0.000000	0.000000	0.000000

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

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

Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.200000	0.633300	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
NaturalGas Unmitigated	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****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					
Parking Lot	0	0.0000	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	5828.06	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434		685.6539	685.6539	0.0131	0.0126	689.7283
Unrefrigerated Warehouse-No Rail	679.363	7.3300e-003	0.0666	0.0560	4.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003		79.9251	79.9251	1.5300e-003	1.4700e-003	80.4001
Total		0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	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	5.82806	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434		685.6539	685.6539	0.0131	0.0126	689.7283
Unrefrigerated Warehouse-No Rail	0.679363	7.3300e-003	0.0666	0.0560	4.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003		79.9251	79.9251	1.5300e-003	1.4700e-003	80.4001
Total		0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

6.0 Area Detail

6.1 Mitigation Measures Area

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Unmitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

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
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
Tractors/Loaders/Backhoes	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Moreno Valley Business Center (Operations - Passenger Cars)****Riverside-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	41.12	1000sqft	0.94	41,122.00	0
Unrefrigerated Warehouse-No Rail	123.37	1000sqft	2.83	123,367.00	0
Parking Lot	186.73	1000sqft	4.29	186,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
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 -

Land Use - Total Project Area is 8.06 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics are based on information provided in the Traffic analysis by Urban Crossroads, Inc.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

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

Energy Use -

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, and MDV).

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.53	0.59
tblFleetMix	LDA	0.53	0.59
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.3000e-004	0.00

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

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

tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblLandUse	LandUseSquareFeet	41,120.00	41,122.00
tblLandUse	LandUseSquareFeet	123,370.00	123,367.00
tblLandUse	LandUseSquareFeet	186,730.00	186,733.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
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	1.41
tblVehicleTrips	ST_TR	1.74	0.11
tblVehicleTrips	SU_TR	2.12	1.41

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

tblVehicleTrips	SU_TR	1.74	0.04
tblVehicleTrips	WD_TR	2.12	1.41
tblVehicleTrips	WD_TR	1.74	1.28

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible]

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
Mobile	0.3780	0.5641	6.9702	0.0231	2.7227	0.0124	2.7350	0.7218	0.0114	0.7331		2,347.5057	2,347.5057	0.0531	0.0596	2,366.6026
Offroad	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	4.3285	2.4700	8.3007	0.0301	2.7227	0.1047	2.8274	0.7218	0.1002	0.8220	0.0000	3,419.9493	3,419.9493	0.1672	0.0737	3,446.0812

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
Mobile	0.3780	0.5641	6.9702	0.0231	2.7227	0.0124	2.7350	0.7218	0.0114	0.7331		2,347.5057	2,347.5057	0.0531	0.0596	2,366.6026
Offroad	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	4.3285	2.4700	8.3007	0.0301	2.7227	0.1047	2.8274	0.7218	0.1002	0.8220	0.0000	3,419.9493	3,419.9493	0.1672	0.0737	3,446.0812

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/5/2021	7/4/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

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

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Demolition - 2021

[illegible]

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

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Demolition - 2021****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3780	0.5641	6.9702	0.0231	2.7227	0.0124	2.7350	0.7218	0.0114	0.7331		2,347.5057	2,347.5057	0.0531	0.0596	2,366.6026
Unmitigated	0.3780	0.5641	6.9702	0.0231	2.7227	0.0124	2.7350	0.7218	0.0114	0.7331		2,347.5057	2,347.5057	0.0531	0.0596	2,366.6026

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	57.98	57.98	57.98	350,334	350,334
Unrefrigerated Warehouse-No Rail	157.91	13.57	4.93	697,529	697,529
Total	215.89	71.55	62.91	1,047,863	1,047,863

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

[illegible]

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

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

Unrefrigerated Warehouse-No Rail	0.588400	0.061800	0.190600	0.159200	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
NaturalGas Unmitigated	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - 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					
Parking Lot	0	0.0000	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	5828.06	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434		685.6539	685.6539	0.0131	0.0126	689.7283
Unrefrigerated Warehouse-No Rail	679.363	7.3300e-003	0.0666	0.0560	4.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003		79.9251	79.9251	1.5300e-003	1.4700e-003	80.4001
Total		0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - 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					
Parking Lot	0	0.0000	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	5.82806	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434		685.6539	685.6539	0.0131	0.0126	689.7283
Unrefrigerated Warehouse-No Rail	0.679363	7.3300e-003	0.0666	0.0560	4.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003		79.9251	79.9251	1.5300e-003	1.4700e-003	80.4001
Total		0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

6.0 Area Detail

6.1 Mitigation Measures Area

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Unmitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

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
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
Tractors/Loaders/Backhoes	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Moreno Valley Business Center (Operations - Trucks)****Riverside-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	41.12	1000sqft	0.94	41,122.00	0
Unrefrigerated Warehouse-No Rail	123.37	1000sqft	2.83	123,367.00	0
Parking Lot	186.73	1000sqft	4.29	186,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
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 -

Land Use - Total Project Area is 8.06 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics are based on information provided in the Traffic analysis by Urban Crossroads, Inc.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

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

Energy Use -

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Analysis.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.02	0.53
tblFleetMix	HHD	0.02	0.63
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.35
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.12
tblFleetMix	MHD	0.01	0.20
tblFleetMix	OBUS	6.3000e-004	0.00

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

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

tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblLandUse	LandUseSquareFeet	41,120.00	41,122.00
tblLandUse	LandUseSquareFeet	123,370.00	123,367.00
tblLandUse	LandUseSquareFeet	186,730.00	186,733.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
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	0.83

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

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

tblVehicleTrips	ST_TR	1.74	0.04
tblVehicleTrips	SU_TR	2.12	0.83
tblVehicleTrips	SU_TR	1.74	0.02
tblVehicleTrips	WD_TR	2.12	0.83
tblVehicleTrips	WD_TR	1.74	0.49

2.0 Emissions Summary

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

Unmitigated Construction

Mitigated Construction

[illegible]

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
Mobile	0.4809	18.9681	4.1619	0.0880	3.3519	0.2507	3.6026	0.9405	0.2398	1.1803		9,325.1312	9,325.1312	0.1047	1.3291	9,723.8262
Offroad	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	4.4314	20.8740	5.4923	0.0950	3.3519	0.3431	3.6950	0.9405	0.3287	1.2691	0.0000	10,397.5748	10,397.5748	0.2188	1.3432	10,803.3048

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Energy	0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
Mobile	0.4809	18.9681	4.1619	0.0880	3.3519	0.2507	3.6026	0.9405	0.2398	1.1803		9,325.1312	9,325.1312	0.1047	1.3291	9,723.8262
Offroad	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	4.4314	20.8740	5.4923	0.0950	3.3519	0.3431	3.6950	0.9405	0.3287	1.2691	0.0000	10,397.5748	10,397.5748	0.2188	1.3432	10,803.3048

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/5/2021	7/4/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

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

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Demolition - 2021

Unmitigated Construction On-Site

[illegible]

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

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Demolition - 2021****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4809	18.9681	4.1619	0.0880	3.3519	0.2507	3.6026	0.9405	0.2398	1.1803		9,325.131 2	9,325.131 2	0.1047	1.3291	9,723.826 2
Unmitigated	0.4809	18.9681	4.1619	0.0880	3.3519	0.2507	3.6026	0.9405	0.2398	1.1803		9,325.131 2	9,325.131 2	0.1047	1.3291	9,723.826 2

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	34.13	34.13	34.13	496,927	496,927
Unrefrigerated Warehouse-No Rail	60.45	4.93	2.47	644,090	644,090
Total	94.58	39.06	36.60	1,141,017	1,141,017

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	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
Parking Lot	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.352900	0.000000	0.117600	0.529500	0.000000	0.000000	0.000000	0.000000	0.000000

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

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

Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.200000	0.633300	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0702	0.6380	0.5359	3.8300e- 003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284
NaturalGas Unmitigated	0.0702	0.6380	0.5359	3.8300e- 003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - 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					
Parking Lot	0	0.0000	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	5828.06	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434		685.6539	685.6539	0.0131	0.0126	689.7283
Unrefrigerated Warehouse-No Rail	679.363	7.3300e-003	0.0666	0.0560	4.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003		79.9251	79.9251	1.5300e-003	1.4700e-003	80.4001
Total		0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - 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					
Parking Lot	0	0.0000	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	5.82806	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434		685.6539	685.6539	0.0131	0.0126	689.7283
Unrefrigerated Warehouse-No Rail	0.679363	7.3300e-003	0.0666	0.0560	4.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003		79.9251	79.9251	1.5300e-003	1.4700e-003	80.4001
Total		0.0702	0.6380	0.5359	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.5790	765.5790	0.0147	0.0140	770.1284

6.0 Area Detail

6.1 Mitigation Measures Area

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Unmitigated	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3400e-003	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819
Total	3.7584	3.3000e-004	0.0359	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0769	0.0769	2.0000e-004		0.0819

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
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
Tractors/Loaders/Backhoes	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683
Total	0.1220	1.2676	0.7586	3.1700e-003		0.0437	0.0437		0.0402	0.0402	0.0000	306.7877	306.7877	0.0992		309.2683

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Moreno Valley Business Center (Operations - Passenger Cars)****Riverside-South Coast County, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	41.12	1000sqft	0.94	41,122.00	0
Unrefrigerated Warehouse-No Rail	123.37	1000sqft	2.83	123,367.00	0
Parking Lot	186.73	1000sqft	4.29	186,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
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 -

Land Use - Total Project Area is 8.06 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics are based on information provided in the Traffic analysis by Urban Crossroads, Inc.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

Energy Use -

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, and MDV).

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.53	0.59
tblFleetMix	LDA	0.53	0.59
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.3000e-004	0.00

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblLandUse	LandUseSquareFeet	41,120.00	41,122.00
tblLandUse	LandUseSquareFeet	123,370.00	123,367.00
tblLandUse	LandUseSquareFeet	186,730.00	186,733.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
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	1.41
tblVehicleTrips	ST_TR	1.74	0.11
tblVehicleTrips	SU_TR	2.12	1.41

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

tblVehicleTrips	SU_TR	1.74	0.04
tblVehicleTrips	WD_TR	2.12	1.41
tblVehicleTrips	WD_TR	1.74	1.28

2.1 Overall Construction

[illegible][illegible]

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Energy	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	479.6445	479.6445	0.0322	5.9300e-003	482.2182
Mobile	0.0565	0.0847	1.0727	3.4400e-003	0.3914	1.8000e-003	0.3932	0.1039	1.6600e-003	0.1056	0.0000	317.9082	317.9082	7.0700e-003	8.0500e-003	320.4851
Offroad	0.0223	0.2313	0.1384	5.8000e-004		7.9800e-003	7.9800e-003		7.3400e-003	7.3400e-003	0.0000	50.7921	50.7921	0.0164	0.0000	51.2028
Waste						0.0000	0.0000		0.0000	0.0000	31.3865	0.0000	31.3865	1.8549	0.0000	77.7586
Water						0.0000	0.0000		0.0000	0.0000	12.0678	87.8387	99.9065	1.2469	0.0302	140.0681
Total	0.7773	0.4325	1.3134	4.7200e-003	0.3914	0.0187	0.4101	0.1039	0.0179	0.1218	43.4543	936.1922	979.6465	3.1575	0.0442	1,071.7421

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Energy	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	479.6445	479.6445	0.0322	5.9300e-003	482.2182
Mobile	0.0565	0.0847	1.0727	3.4400e-003	0.3914	1.8000e-003	0.3932	0.1039	1.6600e-003	0.1056	0.0000	317.9082	317.9082	7.0700e-003	8.0500e-003	320.4851
Offroad	0.0223	0.2313	0.1384	5.8000e-004		7.9800e-003	7.9800e-003		7.3400e-003	7.3400e-003	0.0000	50.7921	50.7921	0.0164	0.0000	51.2028
Waste						0.0000	0.0000		0.0000	0.0000	31.3865	0.0000	31.3865	1.8549	0.0000	77.7586
Water						0.0000	0.0000		0.0000	0.0000	12.0678	87.8387	99.9065	1.2469	0.0302	140.0681
Total	0.7773	0.4325	1.3134	4.7200e-003	0.3914	0.0187	0.4101	0.1039	0.0179	0.1218	43.4543	936.1922	979.6465	3.1575	0.0442	1,071.7421

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/5/2021	7/4/2021	5	0	

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 4.29****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0565	0.0847	1.0727	3.4400e-003	0.3914	1.8000e-003	0.3932	0.1039	1.6600e-003	0.1056	0.0000	317.9082	317.9082	7.0700e-003	8.0500e-003	320.4851
Unmitigated	0.0565	0.0847	1.0727	3.4400e-003	0.3914	1.8000e-003	0.3932	0.1039	1.6600e-003	0.1056	0.0000	317.9082	317.9082	7.0700e-003	8.0500e-003	320.4851

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	57.98	57.98	57.98	350,334	350,334
Unrefrigerated Warehouse-No Rail	157.91	13.57	4.93	697,529	697,529
Total	215.89	71.55	62.91	1,047,863	1,047,863

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Refrigerated Warehouse-No Rail	0.588400	0.061800	0.190600	0.159200	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.588400	0.061800	0.190600	0.159200	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	352.8943	352.8943	0.0298	3.6100e-003	354.7148
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	352.8943	352.8943	0.0298	3.6100e-003	354.7148
NaturalGas Mitigated	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	126.7502	126.7502	2.4300e-003	2.3200e-003	127.5034
NaturalGas Unmitigated	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	126.7502	126.7502	2.4300e-003	2.3200e-003	127.5034

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

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					
Parking Lot	0	0.0000	0.0000	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	2.12724e+006	0.0115	0.1043	0.0876	6.3000e-004		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	113.5177	113.5177	2.1800e-003	2.0800e-003	114.1923
Unrefrigerated Warehouse-No Rail	247968	1.3400e-003	0.0122	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.2325	13.2325	2.5000e-004	2.4000e-004	13.3111
Total		0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	126.7502	126.7502	2.4300e-003	2.3200e-003	127.5034

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	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	2.12724e+006	0.0115	0.1043	0.0876	6.3000e-004		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	113.5177	113.5177	2.1800e-003	2.0800e-003	114.1923
Unrefrigerated Warehouse-No Rail	247968	1.3400e-003	0.0122	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.2325	13.2325	2.5000e-004	2.4000e-004	13.3111
Total		0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	126.7502	126.7502	2.4300e-003	2.3200e-003	127.5034

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	65356.5	11.5907	9.8000e-004	1.2000e-004	11.6505
Refrigerated Warehouse-No Rail	1.6383e+006	290.5453	0.0245	2.9700e-003	292.0442
Unrefrigerated Warehouse-No Rail	286211	50.7583	4.2800e-003	5.2000e-004	51.0202
Total		352.8943	0.0298	3.6100e-003	354.7148

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	65356.5	11.5907	9.8000e-004	1.2000e-004	11.6505
Refrigerated Warehouse-No Rail	1.6383e+006	290.5453	0.0245	2.9700e-003	292.0442
Unrefrigerated Warehouse-No Rail	286211	50.7583	4.2800e-003	5.2000e-004	51.0202
Total		352.8943	0.0298	3.6100e-003	354.7148

6.0 Area Detail**6.1 Mitigation Measures Area**

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Unmitigated	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003

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	0.0788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-004	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Total	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-004	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Total	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	99.9065	1.2469	0.0302	140.0681
Unmitigated	99.9065	1.2469	0.0302	140.0681

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	9.509 / 0	24.9751	0.3117	7.5400e-003	35.0149
Unrefrigerated Warehouse-No Rail	28.5293 / 0	74.9314	0.9352	0.0226	105.0532
Total		99.9065	1.2469	0.0302	140.0681

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	9.509 / 0	24.9751	0.3117	7.5400e-003	35.0149
Unrefrigerated Warehouse-No Rail	28.5293 / 0	74.9314	0.9352	0.0226	105.0532
Total		99.9065	1.2469	0.0302	140.0681

8.0 Waste Detail

8.1 Mitigation Measures Waste

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.3865	1.8549	0.0000	77.7586
Unmitigated	31.3865	1.8549	0.0000	77.7586

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	38.65	7.8456	0.4637	0.0000	19.4371
Unrefrigerated Warehouse-No Rail	115.97	23.5409	1.3912	0.0000	58.3215
Total		31.3865	1.8549	0.0000	77.7586

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	38.65	7.8456	0.4637	0.0000	19.4371
Unrefrigerated Warehouse-No Rail	115.97	23.5409	1.3912	0.0000	58.3215
Total		31.3865	1.8549	0.0000	77.7586

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

Moreno Valley Business Center (Operations - Passenger Cars) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
Tractors/Loaders/Backhoes	0.0223	0.2313	0.1384	5.8000e-004		7.9800e-003	7.9800e-003		7.3400e-003	7.3400e-003	0.0000	50.7921	50.7921	0.0164	0.0000	51.2028
Total	0.0223	0.2313	0.1384	5.8000e-004		7.9800e-003	7.9800e-003		7.3400e-003	7.3400e-003	0.0000	50.7921	50.7921	0.0164	0.0000	51.2028

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Moreno Valley Business Center (Operations - Trucks)****Riverside-South Coast County, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	41.12	1000sqft	0.94	41,122.00	0
Unrefrigerated Warehouse-No Rail	123.37	1000sqft	2.83	123,367.00	0
Parking Lot	186.73	1000sqft	4.29	186,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
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 -

Land Use - Total Project Area is 8.06 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics are based on information provided in the Traffic analysis by Urban Crossroads, Inc.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

Energy Use -

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Analysis.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.02	0.53
tblFleetMix	HHD	0.02	0.63
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.35
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.12
tblFleetMix	MHD	0.01	0.20
tblFleetMix	OBUS	6.3000e-004	0.00

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblLandUse	LandUseSquareFeet	41,120.00	41,122.00
tblLandUse	LandUseSquareFeet	123,370.00	123,367.00
tblLandUse	LandUseSquareFeet	186,730.00	186,733.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
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	0.83

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

tblVehicleTrips	ST_TR	1.74	0.04
tblVehicleTrips	SU_TR	2.12	0.83
tblVehicleTrips	SU_TR	1.74	0.02
tblVehicleTrips	WD_TR	2.12	0.83
tblVehicleTrips	WD_TR	1.74	0.49

2.0 Emissions Summary

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)				Maximum Mitigated ROG + NOX (tons/quarter)			
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Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

Highest

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Energy	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	479.6445	479.6445	0.0322	5.9300e-003	482.2182
Mobile	0.0733	2.8570	0.6278	0.0132	0.4977	0.0373	0.5350	0.1399	0.0356	0.1755	0.0000	1,265.2554	1,265.2554	0.0142	0.1795	1,319.1069
Offroad	0.0223	0.2313	0.1384	5.8000e-004		7.9800e-003	7.9800e-003		7.3400e-003	7.3400e-003	0.0000	50.7921	50.7921	0.0164	0.0000	51.2028
Waste						0.0000	0.0000		0.0000	0.0000	31.3865	0.0000	31.3865	1.8549	0.0000	77.7586
Water						0.0000	0.0000		0.0000	0.0000	12.0678	87.8387	99.9065	1.2469	0.0302	140.0681
Total	0.7941	3.2049	0.8685	0.0145	0.4977	0.0541	0.5518	0.1399	0.0519	0.1917	43.4543	1,883.5394	1,926.9936	3.1647	0.2156	2,070.3639

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Energy	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	479.6445	479.6445	0.0322	5.9300e-003	482.2182
Mobile	0.0733	2.8570	0.6278	0.0132	0.4977	0.0373	0.5350	0.1399	0.0356	0.1755	0.0000	1,265.2554	1,265.2554	0.0142	0.1795	1,319.1069
Offroad	0.0223	0.2313	0.1384	5.8000e-004		7.9800e-003	7.9800e-003		7.3400e-003	7.3400e-003	0.0000	50.7921	50.7921	0.0164	0.0000	51.2028
Waste						0.0000	0.0000		0.0000	0.0000	31.3865	0.0000	31.3865	1.8549	0.0000	77.7586
Water						0.0000	0.0000		0.0000	0.0000	12.0678	87.8387	99.9065	1.2469	0.0302	140.0681
Total	0.7941	3.2049	0.8685	0.0145	0.4977	0.0541	0.5518	0.1399	0.0519	0.1917	43.4543	1,883.5394	1,926.9936	3.1647	0.2156	2,070.3639

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/5/2021	7/4/2021	5	0	

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 4.29****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0733	2.8570	0.6278	0.0132	0.4977	0.0373	0.5350	0.1399	0.0356	0.1755	0.0000	1,265.255 4	1,265.255 4	0.0142	0.1795	1,319.106 9
Unmitigated	0.0733	2.8570	0.6278	0.0132	0.4977	0.0373	0.5350	0.1399	0.0356	0.1755	0.0000	1,265.255 4	1,265.255 4	0.0142	0.1795	1,319.106 9

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	34.13	34.13	34.13	496,927	496,927
Unrefrigerated Warehouse-No Rail	60.45	4.93	2.47	644,090	644,090
Total	94.58	39.06	36.60	1,141,017	1,141,017

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.352900	0.000000	0.117600	0.529500	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.200000	0.633300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	352.8943	352.8943	0.0298	3.6100e-003	354.7148
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	352.8943	352.8943	0.0298	3.6100e-003	354.7148
NaturalGas Mitigated	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	126.7502	126.7502	2.4300e-003	2.3200e-003	127.5034
NaturalGas Unmitigated	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	126.7502	126.7502	2.4300e-003	2.3200e-003	127.5034

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

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					
Parking Lot	0	0.0000	0.0000	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	2.12724e+006	0.0115	0.1043	0.0876	6.3000e-004		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	113.5177	113.5177	2.1800e-003	2.0800e-003	114.1923
Unrefrigerated Warehouse-No Rail	247968	1.3400e-003	0.0122	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.2325	13.2325	2.5000e-004	2.4000e-004	13.3111
Total		0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	126.7502	126.7502	2.4300e-003	2.3200e-003	127.5034

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	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	2.12724e+006	0.0115	0.1043	0.0876	6.3000e-004		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	113.5177	113.5177	2.1800e-003	2.0800e-003	114.1923
Unrefrigerated Warehouse-No Rail	247968	1.3400e-003	0.0122	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.2325	13.2325	2.5000e-004	2.4000e-004	13.3111
Total		0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	126.7502	126.7502	2.4300e-003	2.3200e-003	127.5034

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	65356.5	11.5907	9.8000e-004	1.2000e-004	11.6505
Refrigerated Warehouse-No Rail	1.6383e+006	290.5453	0.0245	2.9700e-003	292.0442
Unrefrigerated Warehouse-No Rail	286211	50.7583	4.2800e-003	5.2000e-004	51.0202
Total		352.8943	0.0298	3.6100e-003	354.7148

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	65356.5	11.5907	9.8000e-004	1.2000e-004	11.6505
Refrigerated Warehouse-No Rail	1.6383e+006	290.5453	0.0245	2.9700e-003	292.0442
Unrefrigerated Warehouse-No Rail	286211	50.7583	4.2800e-003	5.2000e-004	51.0202
Total		352.8943	0.0298	3.6100e-003	354.7148

6.0 Area Detail**6.1 Mitigation Measures Area**

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Unmitigated	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003

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	0.0788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-004	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Total	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-004	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003
Total	0.6857	4.0000e-005	4.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.7200e-003	8.7200e-003	2.0000e-005	0.0000	9.2900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	99.9065	1.2469	0.0302	140.0681
Unmitigated	99.9065	1.2469	0.0302	140.0681

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	9.509 / 0	24.9751	0.3117	7.5400e-003	35.0149
Unrefrigerated Warehouse-No Rail	28.5293 / 0	74.9314	0.9352	0.0226	105.0532
Total		99.9065	1.2469	0.0302	140.0681

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	9.509 / 0	24.9751	0.3117	7.5400e-003	35.0149
Unrefrigerated Warehouse-No Rail	28.5293 / 0	74.9314	0.9352	0.0226	105.0532
Total		99.9065	1.2469	0.0302	140.0681

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.3865	1.8549	0.0000	77.7586
Unmitigated	31.3865	1.8549	0.0000	77.7586

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	38.65	7.8456	0.4637	0.0000	19.4371
Unrefrigerated Warehouse-No Rail	115.97	23.5409	1.3912	0.0000	58.3215
Total		31.3865	1.8549	0.0000	77.7586

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	38.65	7.8456	0.4637	0.0000	19.4371
Unrefrigerated Warehouse-No Rail	115.97	23.5409	1.3912	0.0000	58.3215
Total		31.3865	1.8549	0.0000	77.7586

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

Moreno Valley Business Center (Operations - Trucks) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
Tractors/Loaders/Backhoes	0.0223	0.2313	0.1384	5.8000e-004		7.9800e-003	7.9800e-003		7.3400e-003	7.3400e-003	0.0000	50.7921	50.7921	0.0164	0.0000	51.2028
Total	0.0223	0.2313	0.1384	5.8000e-004		7.9800e-003	7.9800e-003		7.3400e-003	7.3400e-003	0.0000	50.7921	50.7921	0.0164	0.0000	51.2028

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation