

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Summer

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

TTM 20450 - Victorville

Mojave Desert AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	36.00	Dwelling Unit	10.00	64,800.00	103

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	30
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Lot acreage per site plan.
- Construction Phase - No demolition phase;
- Trips and VMT -
- Grading - Acres graded and import per earthwork volume analysis
- Architectural Coating - VOC per MDAQMD Rules
- Woodstoves - No wood fireplaces
- Area Coating - VOC per MDAQMD Rules
- Construction Off-road Equipment Mitigation - Construction mitigation for fugitive dust
- Area Mitigation - No fireplaces
- Water Mitigation -
- Waste Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	19.80	0.00
tblFireplaces	NumberNoFireplace	3.60	36.00
tblFireplaces	NumberWood	12.60	0.00
tblLandUse	LotAcreage	11.69	10.00

2.0 Emissions Summary

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2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2414	33.1234	20.2558	0.0394	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	3,826.240 2	3,826.240 2	1.1963	0.0145	3,857.292 6
2023	20.4761	14.5464	16.6822	0.0287	0.1339	0.7016	0.8355	0.0361	0.6602	0.6964	0.0000	2,736.780 0	2,736.780 0	0.7171	0.0139	2,756.181 8
Maximum	20.4761	33.1234	20.2558	0.0394	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	3,826.240 2	3,826.240 2	1.1963	0.0145	3,857.292 6

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2414	33.1234	20.2558	0.0394	7.7884	1.6133	9.4017	3.9729	1.4843	5.4571	0.0000	3,826.240 1	3,826.240 1	1.1963	0.0145	3,857.292 6
2023	20.4761	14.5464	16.6822	0.0287	0.1115	0.7016	0.8131	0.0306	0.6602	0.6909	0.0000	2,736.780 0	2,736.780 0	0.7171	0.0139	2,756.181 8
Maximum	20.4761	33.1234	20.2558	0.0394	7.7884	1.6133	9.4017	3.9729	1.4843	5.4571	0.0000	3,826.240 1	3,826.240 1	1.1963	0.0145	3,857.292 6

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	60.38	0.00	54.10	60.66	0.00	50.11	0.00	0.00	0.00	0.00	0.00	0.00

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4820	0.1668	11.0960	0.0267		1.3420	1.3420		1.3420	1.3420	195.6442	5.3479	200.9920	0.9197	0.0000	223.9855
Energy	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793
Mobile	1.2468	1.5150	10.5689	0.0215	2.0589	0.0181	2.0769	0.5489	0.0170	0.5659		2,213.4763	2,213.4763	0.1170	0.1082	2,248.6298
Total	3.7589	1.9389	21.7744	0.0499	2.0589	1.3808	3.4397	0.5489	1.3797	1.9286	195.6442	2,547.0530	2,742.6971	1.0431	0.1142	2,802.7947

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	1.4416	0.0271	2.2577	1.0000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	3.7422	3.7422	2.6900e-003	0.0000	3.8095
Energy	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793
Mobile	1.2468	1.5150	10.5689	0.0215	2.0589	0.0181	2.0769	0.5489	0.0170	0.5659		2,213.4763	2,213.4763	0.1170	0.1082	2,248.6298
Total	2.7185	1.7992	12.9361	0.0233	2.0589	0.0511	2.1100	0.5489	0.0500	0.5989	0.0000	2,545.4473	2,545.4473	0.1260	0.1142	2,582.6186

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	27.68	7.20	40.59	53.30	0.00	96.30	38.66	0.00	96.37	68.95	100.00	0.06	7.19	87.92	0.00	7.86

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	10/31/2022	11/11/2022	5	10	
2	Grading	Grading	11/12/2022	12/9/2022	5	20	
3	Building Construction	Building Construction	12/10/2022	10/27/2023	5	230	
4	Paving	Paving	10/28/2023	11/24/2023	5	20	
5	Architectural Coating	Architectural Coating	11/25/2023	12/22/2023	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 131,220; Residential Outdoor: 43,740; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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	3	8.00	97	0.37

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0713	0.0399	0.5581	1.3800e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		140.1783	140.1783	4.1600e-003	3.8400e-003	141.4271
Total	0.0713	0.0399	0.5581	1.3800e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		140.1783	140.1783	4.1600e-003	3.8400e-003	141.4271

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5
Total	3.1701	33.0835	19.6978	0.0380	7.6662	1.6126	9.2788	3.9400	1.4836	5.4235	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0713	0.0399	0.5581	1.3800e-003	0.1222	7.5000e-004	0.1229	0.0329	6.9000e-004	0.0336		140.1783	140.1783	4.1600e-003	3.8400e-003	141.4271
Total	0.0713	0.0399	0.5581	1.3800e-003	0.1222	7.5000e-004	0.1229	0.0329	6.9000e-004	0.0336		140.1783	140.1783	4.1600e-003	3.8400e-003	141.4271

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3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289		2,895.268 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0594	0.0332	0.4651	1.1500e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		116.8152	116.8152	3.4700e-003	3.2000e-003	117.8559
Total	0.0594	0.0332	0.4651	1.1500e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		116.8152	116.8152	3.4700e-003	3.2000e-003	117.8559

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3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	2.7622	0.9409	3.7031	1.3357	0.8656	2.2012	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0594	0.0332	0.4651	1.1500e-003	0.1018	6.2000e-004	0.1024	0.0274	5.7000e-004	0.0280		116.8152	116.8152	3.4700e-003	3.2000e-003	117.8559
Total	0.0594	0.0332	0.4651	1.1500e-003	0.1018	6.2000e-004	0.1024	0.0274	5.7000e-004	0.0280		116.8152	116.8152	3.4700e-003	3.2000e-003	117.8559

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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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5400e-003	0.1634	0.0743	8.1000e-004	0.0271	2.2800e-003	0.0294	7.8100e-003	2.1800e-003	0.0100		85.5792	85.5792	4.4000e-004	0.0117	89.0763
Worker	0.0515	0.0288	0.4030	1.0000e-003	0.1068	5.4000e-004	0.1073	0.0283	5.0000e-004	0.0288		101.2399	101.2399	3.0000e-003	2.7700e-003	102.1418
Total	0.0590	0.1922	0.4773	1.8100e-003	0.1339	2.8200e-003	0.1367	0.0361	2.6800e-003	0.0388		186.8191	186.8191	3.4400e-003	0.0145	191.2181

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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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5400e-003	0.1634	0.0743	8.1000e-004	0.0233	2.2800e-003	0.0256	6.8700e-003	2.1800e-003	9.0500e-003		85.5792	85.5792	4.4000e-004	0.0117	89.0763
Worker	0.0515	0.0288	0.4030	1.0000e-003	0.0882	5.4000e-004	0.0888	0.0238	5.0000e-004	0.0243		101.2399	101.2399	3.0000e-003	2.7700e-003	102.1418
Total	0.0590	0.1922	0.4773	1.8100e-003	0.1115	2.8200e-003	0.1143	0.0306	2.6800e-003	0.0333		186.8191	186.8191	3.4400e-003	0.0145	191.2181

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Summer

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

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1700e-003	0.1362	0.0697	7.9000e-004	0.0271	1.3800e-003	0.0285	7.8100e-003	1.3200e-003	9.1400e-003		83.0301	83.0301	3.7000e-004	0.0113	86.4066
Worker	0.0475	0.0254	0.3686	9.6000e-004	0.1068	5.1000e-004	0.1073	0.0283	4.7000e-004	0.0288		98.5399	98.5399	2.6900e-003	2.5600e-003	99.3691
Total	0.0537	0.1615	0.4382	1.7500e-003	0.1339	1.8900e-003	0.1358	0.0361	1.7900e-003	0.0379		181.5701	181.5701	3.0600e-003	0.0139	185.7758

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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 - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1700e-003	0.1362	0.0697	7.9000e-004	0.0233	1.3800e-003	0.0247	6.8700e-003	1.3200e-003	8.1900e-003		83.0301	83.0301	3.7000e-004	0.0113	86.4066
Worker	0.0475	0.0254	0.3686	9.6000e-004	0.0882	5.1000e-004	0.0887	0.0238	4.7000e-004	0.0242		98.5399	98.5399	2.6900e-003	2.5600e-003	99.3691
Total	0.0537	0.1615	0.4382	1.7500e-003	0.1115	1.8900e-003	0.1134	0.0306	1.7900e-003	0.0324		181.5701	181.5701	3.0600e-003	0.0139	185.7758

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Summer

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

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0548	0.0293	0.4253	1.1100e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		113.6999	113.6999	3.1100e-003	2.9500e-003	114.6567
Total	0.0548	0.0293	0.4253	1.1100e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		113.6999	113.6999	3.1100e-003	2.9500e-003	114.6567

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Summer

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

3.5 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0548	0.0293	0.4253	1.1100e-003	0.1018	5.8000e-004	0.1024	0.0274	5.4000e-004	0.0280		113.6999	113.6999	3.1100e-003	2.9500e-003	114.6567
Total	0.0548	0.0293	0.4253	1.1100e-003	0.1018	5.8000e-004	0.1024	0.0274	5.4000e-004	0.0280		113.6999	113.6999	3.1100e-003	2.9500e-003	114.6567

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Summer

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

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	20.2735					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	20.4652	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0110	5.8500e-003	0.0851	2.2000e-004	0.0246	1.2000e-004	0.0248	6.5400e-003	1.1000e-004	6.6400e-003		22.7400	22.7400	6.2000e-004	5.9000e-004	22.9313
Total	0.0110	5.8500e-003	0.0851	2.2000e-004	0.0246	1.2000e-004	0.0248	6.5400e-003	1.1000e-004	6.6400e-003		22.7400	22.7400	6.2000e-004	5.9000e-004	22.9313

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Summer

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

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	20.2735					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	20.4652	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0110	5.8500e-003	0.0851	2.2000e-004	0.0204	1.2000e-004	0.0205	5.4900e-003	1.1000e-004	5.5900e-003		22.7400	22.7400	6.2000e-004	5.9000e-004	22.9313
Total	0.0110	5.8500e-003	0.0851	2.2000e-004	0.0204	1.2000e-004	0.0205	5.4900e-003	1.1000e-004	5.5900e-003		22.7400	22.7400	6.2000e-004	5.9000e-004	22.9313

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2468	1.5150	10.5689	0.0215	2.0589	0.0181	2.0769	0.5489	0.0170	0.5659		2,213.476 3	2,213.476 3	0.1170	0.1082	2,248.629 8
Unmitigated	1.2468	1.5150	10.5689	0.0215	2.0589	0.0181	2.0769	0.5489	0.0170	0.5659		2,213.476 3	2,213.476 3	0.1170	0.1082	2,248.629 8

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	339.84	343.44	307.80	953,647	953,647
Total	339.84	343.44	307.80	953,647	953,647

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.526992	0.056742	0.174739	0.140288	0.030240	0.007815	0.006009	0.021774	0.000488	0.000160	0.028107	0.000925	0.005722

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Summer

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793
NaturalGas Unmitigated	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793

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					
Single Family Housing	2789.94	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793
Total		0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4416	0.0271	2.2577	1.0000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	3.7422	3.7422	2.6900e-003	0.0000	3.8095
Unmitigated	2.4820	0.1668	11.0960	0.0267		1.3420	1.3420		1.3420	1.3420	195.6442	5.3479	200.9920	0.9197	0.0000	223.9855

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	0.1111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3867					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8947	0.1326	8.1253	0.0265		1.3255	1.3255		1.3255	1.3255	195.6442	0.0000	195.6442	0.9146	0.0000	218.5091
Landscaping	0.0895	0.0342	2.9707	1.6000e-004		0.0164	0.0164		0.0164	0.0164		5.3479	5.3479	5.1400e-003		5.4765
Total	2.4820	0.1668	11.0960	0.0267		1.3419	1.3419		1.3419	1.3419	195.6442	5.3479	200.9920	0.9197	0.0000	223.9855

TTM 20450 - Victorville - Mojave Desert AQMD Air District, 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	0.1111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2830					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0475	0.0271	2.2577	1.0000e-004		0.0123	0.0123		0.0123	0.0123		3.7422	3.7422	2.6900e-003		3.8095
Total	1.4416	0.0271	2.2577	1.0000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	3.7422	3.7422	2.6900e-003	0.0000	3.8095

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

TTM 20450 - Victorville - Mojave Desert AQMD Air District, 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

Institute Recycling and Composting Services

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
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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

TTM 20450 - Victorville
Mojave Desert AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	36.00	Dwelling Unit	10.00	64,800.00	103

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	30
Climate Zone	10	Operational Year		2023	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Lot acreage per site plan.
- Construction Phase - No demolition phase;
- Trips and VMT -
- Grading - Acres graded and import per earthwork volume analysis
- Architectural Coating - VOC per MDAQMD Rules
- Woodstoves - No wood fireplaces
- Area Coating - VOC per MDAQMD Rules
- Construction Off-road Equipment Mitigation - Construction mitigation for fugitive dust
- Area Mitigation - No fireplaces
- Water Mitigation -
- Waste Mitigation -

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	19.80	0.00
tblFireplaces	NumberNoFireplace	3.60	36.00
tblFireplaces	NumberWood	12.60	0.00
tblLandUse	LotAcreage	11.69	10.00

2.0 Emissions Summary

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2343	33.1245	20.1426	0.0393	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	3,810.568 4	3,810.568 4	1.1964	0.0146	3,841.641 9
2023	20.4750	14.5559	16.6108	0.0286	0.1339	0.7016	0.8356	0.0361	0.6602	0.6964	0.0000	2,726.028 1	2,726.028 1	0.7172	0.0140	2,745.458 6
Maximum	20.4750	33.1245	20.1426	0.0393	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	3,810.568 4	3,810.568 4	1.1964	0.0146	3,841.641 9

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2343	33.1245	20.1426	0.0393	7.7884	1.6133	9.4017	3.9729	1.4843	5.4571	0.0000	3,810.568 3	3,810.568 3	1.1964	0.0146	3,841.641 9
2023	20.4750	14.5559	16.6108	0.0286	0.1115	0.7016	0.8131	0.0306	0.6602	0.6909	0.0000	2,726.028 1	2,726.028 1	0.7172	0.0140	2,745.458 6
Maximum	20.4750	33.1245	20.1426	0.0393	7.7884	1.6133	9.4017	3.9729	1.4843	5.4571	0.0000	3,810.568 3	3,810.568 3	1.1964	0.0146	3,841.641 9

TTM 20450 - Victorville - Mojave Desert AQMD Air District, 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	60.38	0.00	54.10	60.66	0.00	50.11	0.00	0.00	0.00	0.00	0.00	0.00

TTM 20450 - Victorville - Mojave Desert AQMD Air District, 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	2.4820	0.1668	11.0960	0.0267		1.3420	1.3420		1.3420	1.3420	195.6442	5.3479	200.9920	0.9197	0.0000	223.9855
Energy	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793
Mobile	1.0263	1.6047	9.2439	0.0197	2.0589	0.0181	2.0770	0.5489	0.0170	0.5659		2,026.5237	2,026.5237	0.1205	0.1103	2,062.4167
Total	3.5384	2.0286	20.4494	0.0480	2.0589	1.3808	3.4397	0.5489	1.3797	1.9286	195.6442	2,360.1003	2,555.7445	1.0465	0.1164	2,616.5815

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	1.4416	0.0271	2.2577	1.0000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	3.7422	3.7422	2.6900e-003	0.0000	3.8095
Energy	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793
Mobile	1.0263	1.6047	9.2439	0.0197	2.0589	0.0181	2.0770	0.5489	0.0170	0.5659		2,026.5237	2,026.5237	0.1205	0.1103	2,062.4167
Total	2.4980	1.8889	11.6111	0.0215	2.0589	0.0511	2.1100	0.5489	0.0500	0.5989	0.0000	2,358.4947	2,358.4947	0.1295	0.1164	2,396.4054

TTM 20450 - Victorville - Mojave Desert AQMD Air District, 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	29.40	6.89	43.22	55.32	0.00	96.30	38.66	0.00	96.37	68.95	100.00	0.07	7.72	87.63	0.00	8.41

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	10/31/2022	11/11/2022	5	10	
2	Grading	Grading	11/12/2022	12/9/2022	5	20	
3	Building Construction	Building Construction	12/10/2022	10/27/2023	5	230	
4	Paving	Paving	10/28/2023	11/24/2023	5	20	
5	Architectural Coating	Architectural Coating	11/25/2023	12/22/2023	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 131,220; Residential Outdoor: 43,740; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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	3	8.00	97	0.37

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Winter

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

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Winter

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

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0642	0.0410	0.4448	1.2200e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		124.5065	124.5065	4.2200e-003	3.9100e-003	125.7763
Total	0.0642	0.0410	0.4448	1.2200e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		124.5065	124.5065	4.2200e-003	3.9100e-003	125.7763

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Winter

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

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	7.6662	1.6126	9.2788	3.9400	1.4836	5.4235	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0642	0.0410	0.4448	1.2200e-003	0.1222	7.5000e-004	0.1229	0.0329	6.9000e-004	0.0336		124.5065	124.5065	4.2200e-003	3.9100e-003	125.7763
Total	0.0642	0.0410	0.4448	1.2200e-003	0.1222	7.5000e-004	0.1229	0.0329	6.9000e-004	0.0336		124.5065	124.5065	4.2200e-003	3.9100e-003	125.7763

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Winter

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

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289		2,895.268 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0535	0.0342	0.3707	1.0200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		103.7554	103.7554	3.5200e-003	3.2600e-003	104.8136
Total	0.0535	0.0342	0.3707	1.0200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		103.7554	103.7554	3.5200e-003	3.2600e-003	104.8136

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Winter

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

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	2.7622	0.9409	3.7031	1.3357	0.8656	2.2012	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0535	0.0342	0.3707	1.0200e-003	0.1018	6.2000e-004	0.1024	0.0274	5.7000e-004	0.0280		103.7554	103.7554	3.5200e-003	3.2600e-003	104.8136
Total	0.0535	0.0342	0.3707	1.0200e-003	0.1018	6.2000e-004	0.1024	0.0274	5.7000e-004	0.0280		103.7554	103.7554	3.5200e-003	3.2600e-003	104.8136

TTM 20450 - Victorville - Mojave Desert AQMD Air District, 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1900e-003	0.1728	0.0771	8.2000e-004	0.0271	2.2900e-003	0.0294	7.8100e-003	2.1900e-003	0.0100		85.7175	85.7175	4.2000e-004	0.0117	89.2253
Worker	0.0463	0.0296	0.3212	8.8000e-004	0.1068	5.4000e-004	0.1073	0.0283	5.0000e-004	0.0288		89.9214	89.9214	3.0500e-003	2.8200e-003	90.8385
Total	0.0535	0.2024	0.3983	1.7000e-003	0.1339	2.8300e-003	0.1368	0.0361	2.6900e-003	0.0388		175.6389	175.6389	3.4700e-003	0.0146	180.0637

TTM 20450 - Victorville - Mojave Desert AQMD Air District, 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1900e-003	0.1728	0.0771	8.2000e-004	0.0233	2.2900e-003	0.0256	6.8700e-003	2.1900e-003	9.0600e-003		85.7175	85.7175	4.2000e-004	0.0117	89.2253
Worker	0.0463	0.0296	0.3212	8.8000e-004	0.0882	5.4000e-004	0.0888	0.0238	5.0000e-004	0.0243		89.9214	89.9214	3.0500e-003	2.8200e-003	90.8385
Total	0.0535	0.2024	0.3983	1.7000e-003	0.1115	2.8300e-003	0.1143	0.0306	2.6900e-003	0.0333		175.6389	175.6389	3.4700e-003	0.0146	180.0637

TTM 20450 - Victorville - Mojave Desert AQMD Air District, Winter

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

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7600e-003	0.1449	0.0721	7.9000e-004	0.0271	1.3900e-003	0.0285	7.8100e-003	1.3300e-003	9.1400e-003		83.2633	83.2633	3.5000e-004	0.0114	86.6543
Worker	0.0428	0.0261	0.2947	8.6000e-004	0.1068	5.1000e-004	0.1073	0.0283	4.7000e-004	0.0288		87.5549	87.5549	2.7500e-003	2.6000e-003	88.3982
Total	0.0486	0.1710	0.3668	1.6500e-003	0.1339	1.9000e-003	0.1358	0.0361	1.8000e-003	0.0379		170.8182	170.8182	3.1000e-003	0.0140	175.0525

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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 - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7600e-003	0.1449	0.0721	7.9000e-004	0.0233	1.3900e-003	0.0247	6.8700e-003	1.3300e-003	8.1900e-003		83.2633	83.2633	3.5000e-004	0.0114	86.6543
Worker	0.0428	0.0261	0.2947	8.6000e-004	0.0882	5.1000e-004	0.0887	0.0238	4.7000e-004	0.0242		87.5549	87.5549	2.7500e-003	2.6000e-003	88.3982
Total	0.0486	0.1710	0.3668	1.6500e-003	0.1115	1.9000e-003	0.1134	0.0306	1.8000e-003	0.0324		170.8182	170.8182	3.1000e-003	0.0140	175.0525

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

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0494	0.0301	0.3400	9.9000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		101.0249	101.0249	3.1700e-003	3.0000e-003	101.9979
Total	0.0494	0.0301	0.3400	9.9000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		101.0249	101.0249	3.1700e-003	3.0000e-003	101.9979

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

3.5 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0494	0.0301	0.3400	9.9000e-004	0.1018	5.8000e-004	0.1024	0.0274	5.4000e-004	0.0280		101.0249	101.0249	3.1700e-003	3.0000e-003	101.9979
Total	0.0494	0.0301	0.3400	9.9000e-004	0.1018	5.8000e-004	0.1024	0.0274	5.4000e-004	0.0280		101.0249	101.0249	3.1700e-003	3.0000e-003	101.9979

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

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	20.2735					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	20.4652	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8800e-003	6.0200e-003	0.0680	2.0000e-004	0.0246	1.2000e-004	0.0248	6.5400e-003	1.1000e-004	6.6400e-003		20.2050	20.2050	6.3000e-004	6.0000e-004	20.3996
Total	9.8800e-003	6.0200e-003	0.0680	2.0000e-004	0.0246	1.2000e-004	0.0248	6.5400e-003	1.1000e-004	6.6400e-003		20.2050	20.2050	6.3000e-004	6.0000e-004	20.3996

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

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	20.2735					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	20.4652	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8800e-003	6.0200e-003	0.0680	2.0000e-004	0.0204	1.2000e-004	0.0205	5.4900e-003	1.1000e-004	5.5900e-003		20.2050	20.2050	6.3000e-004	6.0000e-004	20.3996
Total	9.8800e-003	6.0200e-003	0.0680	2.0000e-004	0.0204	1.2000e-004	0.0205	5.4900e-003	1.1000e-004	5.5900e-003		20.2050	20.2050	6.3000e-004	6.0000e-004	20.3996

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0263	1.6047	9.2439	0.0197	2.0589	0.0181	2.0770	0.5489	0.0170	0.5659		2,026.5237	2,026.5237	0.1205	0.1103	2,062.4167
Unmitigated	1.0263	1.6047	9.2439	0.0197	2.0589	0.0181	2.0770	0.5489	0.0170	0.5659		2,026.5237	2,026.5237	0.1205	0.1103	2,062.4167

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	339.84	343.44	307.80	953,647	953,647
Total	339.84	343.44	307.80	953,647	953,647

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.526992	0.056742	0.174739	0.140288	0.030240	0.007815	0.006009	0.021774	0.000488	0.000160	0.028107	0.000925	0.005722

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793
NaturalGas Unmitigated	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793

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					
Single Family Housing	2789.94	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793
Total		0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.2288	328.2288	6.2900e-003	6.0200e-003	330.1793

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4416	0.0271	2.2577	1.0000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	3.7422	3.7422	2.6900e-003	0.0000	3.8095
Unmitigated	2.4820	0.1668	11.0960	0.0267		1.3420	1.3420		1.3420	1.3420	195.6442	5.3479	200.9920	0.9197	0.0000	223.9855

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	0.1111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3867					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8947	0.1326	8.1253	0.0265		1.3255	1.3255		1.3255	1.3255	195.6442	0.0000	195.6442	0.9146	0.0000	218.5091
Landscaping	0.0895	0.0342	2.9707	1.6000e-004		0.0164	0.0164		0.0164	0.0164		5.3479	5.3479	5.1400e-003		5.4765
Total	2.4820	0.1668	11.0960	0.0267		1.3419	1.3419		1.3419	1.3419	195.6442	5.3479	200.9920	0.9197	0.0000	223.9855

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2830					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0475	0.0271	2.2577	1.0000e-004		0.0123	0.0123		0.0123	0.0123		3.7422	3.7422	2.6900e-003		3.8095
Total	1.4416	0.0271	2.2577	1.0000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	3.7422	3.7422	2.6900e-003	0.0000	3.8095

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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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

Institute Recycling and Composting Services

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
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User Defined Equipment

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

11.0 Vegetation

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	36.00	Dwelling Unit	10.00	64,800.00	103

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	30
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Lot acreage per site plan.
- Construction Phase - No demolition phase;
- Trips and VMT -
- Grading - Acres graded and import per earthwork volume analysis
- Architectural Coating - VOC per MDAQMD Rules
- Woodstoves - No wood fireplaces
- Area Coating - VOC per MDAQMD Rules
- Construction Off-road Equipment Mitigation - Construction mitigation for fugitive dust
- Area Mitigation - No fireplaces
- Water Mitigation -
- Waste Mitigation -

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	19.80	0.00
tblFireplaces	NumberNoFireplace	3.60	36.00
tblFireplaces	NumberWood	12.60	0.00
tblLandUse	LotAcreage	11.69	10.00

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0493	0.4932	0.3835	7.2000e-004	0.1720	0.0236	0.1956	0.0855	0.0218	0.1074	0.0000	62.9142	62.9142	0.0181	1.5000e-004	63.4105
2023	0.3895	1.6802	1.9561	3.3500e-003	0.0156	0.0812	0.0968	4.2100e-003	0.0764	0.0806	0.0000	289.7871	289.7871	0.0663	1.4000e-003	291.8618
Maximum	0.3895	1.6802	1.9561	3.3500e-003	0.1720	0.0812	0.1956	0.0855	0.0764	0.1074	0.0000	289.7871	289.7871	0.0663	1.4000e-003	291.8618

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0493	0.4932	0.3835	7.2000e-004	0.0684	0.0236	0.0920	0.0337	0.0218	0.0555	0.0000	62.9142	62.9142	0.0181	1.5000e-004	63.4105
2023	0.3895	1.6801	1.9561	3.3500e-003	0.0130	0.0812	0.0942	3.5700e-003	0.0764	0.0800	0.0000	289.7868	289.7868	0.0663	1.4000e-003	291.8614
Maximum	0.3895	1.6801	1.9561	3.3500e-003	0.0684	0.0812	0.0942	0.0337	0.0764	0.0800	0.0000	289.7868	289.7868	0.0663	1.4000e-003	291.8614

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	56.63	0.00	36.34	58.46	0.00	27.91	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-31-2022	1-30-2023	0.6962	0.6962
2	1-31-2023	4-29-2023	0.5142	0.5142
3	4-30-2023	7-30-2023	0.5314	0.5314
4	7-31-2023	9-30-2023	0.3581	0.3581
		Highest	0.6962	0.6962

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	0.3181	8.5200e-003	0.6005	1.1000e-003		0.0558	0.0558		0.0558	0.0558	7.2769	0.4366	7.7135	0.0344	0.0000	8.5745
Energy	5.4900e-003	0.0469	0.0200	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	105.1919	105.1919	5.3300e-003	1.5200e-003	105.7771
Mobile	0.1811	0.2922	1.7440	3.5800e-003	0.3599	3.2200e-003	0.3631	0.0961	3.0200e-003	0.0991	0.0000	333.5196	333.5196	0.0199	0.0182	339.4241
Waste						0.0000	0.0000		0.0000	0.0000	8.5723	0.0000	8.5723	0.5066	0.0000	21.2375
Water						0.0000	0.0000		0.0000	0.0000	0.7441	8.3299	9.0740	0.0771	1.8900e-003	11.5655
Total	0.5047	0.3476	2.3645	4.9800e-003	0.3599	0.0628	0.4227	0.0961	0.0626	0.1587	16.5933	447.4780	464.0713	0.6434	0.0216	486.5787

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2587	2.4400e-003	0.2032	1.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	0.3055	0.3055	2.2000e-004	0.0000	0.3110
Energy	5.4900e-003	0.0469	0.0200	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	105.1919	105.1919	5.3300e-003	1.5200e-003	105.7771
Mobile	0.1811	0.2922	1.7440	3.5800e-003	0.3599	3.2200e-003	0.3631	0.0961	3.0200e-003	0.0991	0.0000	333.5196	333.5196	0.0199	0.0182	339.4241
Waste						0.0000	0.0000		0.0000	0.0000	6.4292	0.0000	6.4292	0.3800	0.0000	15.9282
Water						0.0000	0.0000		0.0000	0.0000	0.5953	7.0689	7.6642	0.0617	1.5200e-003	9.6595
Total	0.4453	0.3415	1.9672	3.8900e-003	0.3599	8.1100e-003	0.3680	0.0961	7.9100e-003	0.1040	7.0245	446.0859	453.1104	0.4671	0.0212	471.0998

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	11.77	1.75	16.80	21.89	0.00	87.09	12.95	0.00	87.37	34.48	57.67	0.31	2.36	27.40	1.72	3.18

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	10/31/2022	11/11/2022	5	10	
2	Grading	Grading	11/12/2022	12/9/2022	5	20	
3	Building Construction	Building Construction	12/10/2022	10/27/2023	5	230	

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4	Paving	Paving	10/28/2023	11/24/2023	5	20
5	Architectural Coating	Architectural Coating	11/25/2023	12/22/2023	5	20

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 131,220; Residential Outdoor: 43,740; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	0.0159	0.1654	0.0985	1.9000e-004	0.0983	8.0600e-003	0.1064	0.0505	7.4200e-003	0.0579	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549

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3.2 Site Preparation - 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	3.0000e-004	2.2000e-004	2.3800e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5807	0.5807	2.0000e-005	2.0000e-005	0.5867
Total	3.0000e-004	2.2000e-004	2.3800e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5807	0.5807	2.0000e-005	2.0000e-005	0.5867

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0383	0.0000	0.0383	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	0.0159	0.1654	0.0985	1.9000e-004	0.0383	8.0600e-003	0.0464	0.0197	7.4200e-003	0.0271	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549

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3.2 Site Preparation - 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	3.0000e-004	2.2000e-004	2.3800e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5807	0.5807	2.0000e-005	2.0000e-005	0.5867
Total	3.0000e-004	2.2000e-004	2.3800e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5807	0.5807	2.0000e-005	2.0000e-005	0.5867

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e-004	0.0708	9.4100e-003	0.0802	0.0343	8.6600e-003	0.0429	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654

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3.3 Grading - 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	5.0000e-004	3.6000e-004	3.9700e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9679	0.9679	3.0000e-005	3.0000e-005	0.9779
Total	5.0000e-004	3.6000e-004	3.9700e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9679	0.9679	3.0000e-005	3.0000e-005	0.9779

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0276	0.0000	0.0276	0.0134	0.0000	0.0134	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e-004	0.0276	9.4100e-003	0.0370	0.0134	8.6600e-003	0.0220	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654

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3.3 Grading - 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	5.0000e-004	3.6000e-004	3.9700e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9679	0.9679	3.0000e-005	3.0000e-005	0.9779
Total	5.0000e-004	3.6000e-004	3.9700e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9679	0.9679	3.0000e-005	3.0000e-005	0.9779

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	0.0128	0.1171	0.1227	2.0000e-004		6.0700e-003	6.0700e-003		5.7100e-003	5.7100e-003	0.0000	17.3794	17.3794	4.1600e-003	0.0000	17.4835
Total	0.0128	0.1171	0.1227	2.0000e-004		6.0700e-003	6.0700e-003		5.7100e-003	5.7100e-003	0.0000	17.3794	17.3794	4.1600e-003	0.0000	17.4835

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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	5.0000e-005	1.2900e-003	5.7000e-004	1.0000e-005	2.0000e-004	2.0000e-005	2.2000e-004	6.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.5827	0.5827	0.0000	8.0000e-005	0.6065
Worker	3.2000e-004	2.4000e-004	2.5800e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6291	0.6291	2.0000e-005	2.0000e-005	0.6356
Total	3.7000e-004	1.5300e-003	3.1500e-003	2.0000e-005	9.9000e-004	2.0000e-005	1.0100e-003	2.7000e-004	2.0000e-005	2.8000e-004	0.0000	1.2118	1.2118	2.0000e-005	1.0000e-004	1.2421

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0128	0.1171	0.1227	2.0000e-004		6.0700e-003	6.0700e-003		5.7100e-003	5.7100e-003	0.0000	17.3794	17.3794	4.1600e-003	0.0000	17.4835
Total	0.0128	0.1171	0.1227	2.0000e-004		6.0700e-003	6.0700e-003		5.7100e-003	5.7100e-003	0.0000	17.3794	17.3794	4.1600e-003	0.0000	17.4835

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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	5.0000e-005	1.2900e-003	5.7000e-004	1.0000e-005	1.7000e-004	2.0000e-005	1.9000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.5827	0.5827	0.0000	8.0000e-005	0.6065
Worker	3.2000e-004	2.4000e-004	2.5800e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.6291	0.6291	2.0000e-005	2.0000e-005	0.6356
Total	3.7000e-004	1.5300e-003	3.1500e-003	2.0000e-005	8.2000e-004	2.0000e-005	8.4000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	1.2118	1.2118	2.0000e-005	1.0000e-004	1.2421

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1691	1.5464	1.7462	2.9000e-003		0.0752	0.0752		0.0708	0.0708	0.0000	249.1901	249.1901	0.0593	0.0000	250.6721
Total	0.1691	1.5464	1.7462	2.9000e-003		0.0752	0.0752		0.0708	0.0708	0.0000	249.1901	249.1901	0.0593	0.0000	250.6721

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3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	6.4000e-004	0.0155	7.6200e-003	9.0000e-005	2.8700e-003	1.5000e-004	3.0200e-003	8.3000e-004	1.4000e-004	9.7000e-004	0.0000	8.1069	8.1069	4.0000e-005	1.1100e-003	8.4371
Worker	4.2800e-003	2.9800e-003	0.0340	9.0000e-005	0.0113	5.0000e-005	0.0113	2.9900e-003	5.0000e-005	3.0400e-003	0.0000	8.7792	8.7792	2.8000e-004	2.6000e-004	8.8649
Total	4.9200e-003	0.0184	0.0416	1.8000e-004	0.0142	2.0000e-004	0.0144	3.8200e-003	1.9000e-004	4.0100e-003	0.0000	16.8861	16.8861	3.2000e-004	1.3700e-003	17.3020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1691	1.5464	1.7462	2.9000e-003		0.0752	0.0752		0.0708	0.0708	0.0000	249.1898	249.1898	0.0593	0.0000	250.6718
Total	0.1691	1.5464	1.7462	2.9000e-003		0.0752	0.0752		0.0708	0.0708	0.0000	249.1898	249.1898	0.0593	0.0000	250.6718

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3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	6.4000e-004	0.0155	7.6200e-003	9.0000e-005	2.4700e-003	1.5000e-004	2.6200e-003	7.3000e-004	1.4000e-004	8.7000e-004	0.0000	8.1069	8.1069	4.0000e-005	1.1100e-003	8.4371
Worker	4.2800e-003	2.9800e-003	0.0340	9.0000e-005	9.3200e-003	5.0000e-005	9.3700e-003	2.5200e-003	5.0000e-005	2.5700e-003	0.0000	8.7792	8.7792	2.8000e-004	2.6000e-004	8.8649
Total	4.9200e-003	0.0184	0.0416	1.8000e-004	0.0118	2.0000e-004	0.0120	3.2500e-003	1.9000e-004	3.4400e-003	0.0000	16.8861	16.8861	3.2000e-004	1.3700e-003	17.3020

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888

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3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.6400e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9423	0.9423	3.0000e-005	3.0000e-005	0.9515
Total	4.6000e-004	3.2000e-004	3.6400e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9423	0.9423	3.0000e-005	3.0000e-005	0.9515

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888

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3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.6400e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9423	0.9423	3.0000e-005	3.0000e-005	0.9515
Total	4.6000e-004	3.2000e-004	3.6400e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9423	0.9423	3.0000e-005	3.0000e-005	0.9515

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2027					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	0.2047	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

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3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	7.3000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.1885	0.1885	1.0000e-005	1.0000e-005	0.1903
Total	9.0000e-005	6.0000e-005	7.3000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.1885	0.1885	1.0000e-005	1.0000e-005	0.1903

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2027					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	0.2047	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

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3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	7.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1885	0.1885	1.0000e-005	1.0000e-005	0.1903
Total	9.0000e-005	6.0000e-005	7.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1885	0.1885	1.0000e-005	1.0000e-005	0.1903

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1811	0.2922	1.7440	3.5800e-003	0.3599	3.2200e-003	0.3631	0.0961	3.0200e-003	0.0991	0.0000	333.5196	333.5196	0.0199	0.0182	339.4241
Unmitigated	0.1811	0.2922	1.7440	3.5800e-003	0.3599	3.2200e-003	0.3631	0.0961	3.0200e-003	0.0991	0.0000	333.5196	333.5196	0.0199	0.0182	339.4241

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	339.84	343.44	307.80	953,647	953,647
Total	339.84	343.44	307.80	953,647	953,647

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.526992	0.056742	0.174739	0.140288	0.030240	0.007815	0.006009	0.021774	0.000488	0.000160	0.028107	0.000925	0.005722

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	50.8499	50.8499	4.2900e-003	5.2000e-004	51.1122
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	50.8499	50.8499	4.2900e-003	5.2000e-004	51.1122
NaturalGas Mitigated	5.4900e-003	0.0469	0.0200	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3420	54.3420	1.0400e-003	1.0000e-003	54.6649
NaturalGas Unmitigated	5.4900e-003	0.0469	0.0200	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3420	54.3420	1.0400e-003	1.0000e-003	54.6649

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5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Land Use	KBTU/yr	tons/yr																MT/yr
Single Family Housing +006	1.01833e+006	5.4900e-003	0.0469	0.0200	3.0000e-004	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	0.0000	54.3420	54.3420	1.0400e-003	1.0000e-003	54.6649	
Total		5.4900e-003	0.0469	0.0200	3.0000e-004	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	0.0000	54.3420	54.3420	1.0400e-003	1.0000e-003	54.6649	

Mitigated

Land Use	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Land Use	KBTU/yr	tons/yr																MT/yr
Single Family Housing +006	1.01833e+006	5.4900e-003	0.0469	0.0200	3.0000e-004	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	0.0000	54.3420	54.3420	1.0400e-003	1.0000e-003	54.6649	
Total		5.4900e-003	0.0469	0.0200	3.0000e-004	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	3.7900e-003	0.0000	54.3420	54.3420	1.0400e-003	1.0000e-003	54.6649	

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5.3 Energy by Land Use - Electricity

Unmitigated

Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr			
Single Family Housing	286728	50.8499	4.2900e-003	5.2000e-004
Total	50.8499	4.2900e-003	5.2000e-004	51.1122

Mitigated

Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr			
Single Family Housing	286728	50.8499	4.2900e-003	5.2000e-004
Total	50.8499	4.2900e-003	5.2000e-004	51.1122

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

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- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2587	2.4400e-003	0.2032	1.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	0.3055	0.3055	2.2000e-004	0.0000	0.3110
Unmitigated	0.3181	8.5200e-003	0.6005	1.1000e-003		0.0558	0.0558		0.0558	0.0558	7.2769	0.4366	7.7135	0.0344	0.0000	8.5745

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0203					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2531					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0367	5.4300e-003	0.3331	1.0900e-003		0.0544	0.0544		0.0544	0.0544	7.2769	0.0000	7.2769	0.0340	0.0000	8.1274
Landscaping	8.0500e-003	3.0800e-003	0.2674	1.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	0.4366	0.4366	4.2000e-004	0.0000	0.4471
Total	0.3181	8.5100e-003	0.6005	1.1000e-003		0.0558	0.0558		0.0558	0.0558	7.2769	0.4366	7.7135	0.0344	0.0000	8.5745

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0203					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2700e-003	2.4400e-003	0.2032	1.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	0.3055	0.3055	2.2000e-004	0.0000	0.3110
Total	0.2587	2.4400e-003	0.2032	1.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	0.3055	0.3055	2.2000e-004	0.0000	0.3110

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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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	7.6642	0.0617	1.5200e-003	9.6595
Unmitigated	9.0740	0.0771	1.8900e-003	11.5655

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.34554 / 1.47871	9.0740	0.0771	1.8900e-003	11.5655
Total		9.0740	0.0771	1.8900e-003	11.5655

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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			
Single Family Housing	1.87644 / 1.38851	7.6642	0.0617	1.5200e-003	9.6595
Total		7.6642	0.0617	1.5200e-003	9.6595

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.4292	0.3800	0.0000	15.9282
Unmitigated	8.5723	0.5066	0.0000	21.2375

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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

Mojave Desert AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

TTM 20450 - Victorville**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	10	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	1.92000E-003	1.30300E-002	1.81100E-002	3.00000E-005	7.10000E-004	7.10000E-004	0.00000E+000	2.55325E+000	2.55325E+000	1.50000E-004	0.00000E+000	2.55707E+000
Cranes	3.55000E-002	3.86360E-001	1.84970E-001	5.80000E-004	1.61300E-002	1.48400E-002	0.00000E+000	5.10121E+001	5.10121E+001	1.65000E-002	0.00000E+000	5.14246E+001
Excavators	2.02000E-003	1.77700E-002	3.25500E-002	5.00000E-005	8.60000E-004	7.90000E-004	0.00000E+000	4.53606E+000	4.53606E+000	1.47000E-003	0.00000E+000	4.57274E+000
Forklifts	3.56200E-002	3.33230E-001	3.95150E-001	5.30000E-004	2.07000E-002	1.90400E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.53600E-002	3.13890E-001	4.22030E-001	7.60000E-004	1.48900E-002	1.48900E-002	0.00000E+000	6.49989E+001	6.49989E+001	2.87000E-003	0.00000E+000	6.50707E+001
Graders	4.15000E-003	5.25800E-002	1.72200E-002	7.00000E-005	1.67000E-003	1.54000E-003	0.00000E+000	5.81758E+000	5.81758E+000	1.88000E-003	0.00000E+000	5.86462E+000
Pavers	3.84000E-003	3.76600E-002	5.76600E-002	9.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	8.25932E+000	8.25932E+000	2.67000E-003	0.00000E+000	8.32611E+000
Paving Equipment	3.41000E-003	3.20600E-002	5.11300E-002	8.00000E-005	1.56000E-003	1.43000E-003	0.00000E+000	7.15709E+000	7.15709E+000	2.31000E-003	0.00000E+000	7.21496E+000
Rollers	3.07000E-003	3.22000E-002	3.70400E-002	5.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	4.61045E+000	4.61045E+000	1.49000E-003	0.00000E+000	4.64773E+000
Rubber Tired Dozers	2.09300E-002	2.19840E-001	8.95500E-002	2.10000E-004	1.04300E-002	9.60000E-003	0.00000E+000	1.87569E+001	1.87569E+001	6.07000E-003	0.00000E+000	1.89085E+001
Tractors/Loaders/Backhoes	5.41900E-002	5.50120E-001	7.85610E-001	1.10000E-003	2.76700E-002	2.54600E-002	0.00000E+000	9.62466E+001	9.62466E+001	3.11300E-002	0.00000E+000	9.70248E+001
Welders	2.94300E-002	1.63680E-001	1.93100E-001	2.90000E-004	6.41000E-003	6.41000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.38000E-003	0.00000E+000	2.17048E+001

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.92000E-003	1.30300E-002	1.81100E-002	3.00000E-005	7.10000E-004	7.10000E-004	0.00000E+000	2.55325E+000	2.55325E+000	1.50000E-004	0.00000E+000	2.55707E+000
Cranes	3.55000E-002	3.86360E-001	1.84970E-001	5.80000E-004	1.61300E-002	1.48400E-002	0.00000E+000	5.10121E+001	5.10121E+001	1.65000E-002	0.00000E+000	5.14245E+001
Excavators	2.02000E-003	1.77700E-002	3.25500E-002	5.00000E-005	8.60000E-004	7.90000E-004	0.00000E+000	4.53606E+000	4.53606E+000	1.47000E-003	0.00000E+000	4.57273E+000
Forklifts	3.56200E-002	3.33230E-001	3.95150E-001	5.30000E-004	2.07000E-002	1.90400E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.53600E-002	3.13890E-001	4.22030E-001	7.60000E-004	1.48900E-002	1.48900E-002	0.00000E+000	6.49988E+001	6.49988E+001	2.87000E-003	0.00000E+000	6.50706E+001
Graders	4.15000E-003	5.25800E-002	1.72200E-002	7.00000E-005	1.67000E-003	1.54000E-003	0.00000E+000	5.81758E+000	5.81758E+000	1.88000E-003	0.00000E+000	5.86462E+000
Pavers	3.84000E-003	3.76600E-002	5.76600E-002	9.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	8.25931E+000	8.25931E+000	2.67000E-003	0.00000E+000	8.32610E+000
Paving Equipment	3.41000E-003	3.20600E-002	5.11300E-002	8.00000E-005	1.56000E-003	1.43000E-003	0.00000E+000	7.15708E+000	7.15708E+000	2.31000E-003	0.00000E+000	7.21495E+000
Rollers	3.07000E-003	3.22000E-002	3.70400E-002	5.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	4.61045E+000	4.61045E+000	1.49000E-003	0.00000E+000	4.64772E+000
Rubber Tired Dozers	2.09300E-002	2.19840E-001	8.95500E-002	2.10000E-004	1.04300E-002	9.60000E-003	0.00000E+000	1.87568E+001	1.87568E+001	6.07000E-003	0.00000E+000	1.89085E+001
Tractors/Loaders/Balckhoes	5.41900E-002	5.50120E-001	7.85610E-001	1.10000E-003	2.76700E-002	2.54600E-002	0.00000E+000	9.62465E+001	9.62465E+001	3.11300E-002	0.00000E+000	9.70247E+001
Welders	2.94300E-002	1.63680E-001	1.93100E-001	2.90000E-004	6.41000E-003	6.41000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.38000E-003	0.00000E+000	2.17048E+001

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17619E-006	1.17619E-006	0.00000E+000	0.00000E+000	1.16676E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.18687E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07920E-006	1.07920E-006	0.00000E+000	0.00000E+000	1.28466E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23079E-006	1.23079E-006	0.00000E+000	0.00000E+000	1.07575E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21075E-006	1.21075E-006	0.00000E+000	0.00000E+000	1.20104E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39722E-006	1.39722E-006	0.00000E+000	0.00000E+000	1.38601E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.15159E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.59942E-006	1.59942E-006	0.00000E+000	0.00000E+000	1.05773E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14290E-006	1.14290E-006	0.00000E+000	0.00000E+000	1.13373E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.23985E-007	9.23985E-007	0.00000E+000	0.00000E+000	9.21456E-007

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		

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

Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	20.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.17	0.17
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.02	0.00	0.01	0.00	0.17	0.15
Grading	Fugitive Dust	0.07	0.03	0.03	0.01	0.61	0.61
Grading	Roads	0.00	0.00	0.00	0.00	0.17	0.16
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.17	0.16
Site Preparation	Fugitive Dust	0.10	0.05	0.04	0.02	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.18	0.16

Operational Percent Reduction Summary

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

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	7.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	0.00	100.00
Landscaping	46.96	20.78	24.00	0.00	25.68	25.68	0.00	30.02	30.02	47.62	0.00	30.44
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	15.14	15.54	19.95	19.58	16.48
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

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

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

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

No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal		0.00		
No	School Trip	Implement School Bus Program		0.00		
		Total VMT Reduction		0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
Yes	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	50.00
Yes	Use Low VOC Paint (Residential Exterior)	50.00
Yes	Use Low VOC Paint (Non-residential Interior)	50.00
Yes	Use Low VOC Paint (Non-residential Exterior)	50.00
Yes	Use Low VOC Paint (Parking)	50.00
Yes	% Electric Lawnmower	100.00
Yes	% Electric Leafblower	100.00
Yes	% Electric Chainsaw	100.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

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

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

TTM 20450 - Victorville**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	25.00