

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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

**TTM 20434 Hesperia**  
**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	112.00	Dwelling Unit	24.86	201,600.00	320
Other Asphalt Surfaces	4.00	Acre	4.00	174,240.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -  
 Land Use - SFR 112 Units on approximately 28.86 acres per TTM  
 Construction Phase - Removed demolition phase from defaults  
 Construction Off-road Equipment Mitigation - Included PM reduction of 10% for cleaning local paved roads in/out of project during construction.  
 Architectural Coating - VOC changed per Rule 1113 compliance  
 Woodstoves -  
 Area Mitigation - No Hearth selected for project

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblLandUse	LotAcreage	36.36	24.86

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2772	46.4503	31.5597	0.0636	19.8049	2.0453	21.8501	10.1417	1.8816	12.0233	0.0000	6,166.8084	6,166.8084	1.9480	4.6500e-003	6,216.8937
2022	3.7040	38.8877	29.6607	0.0636	9.3679	1.6357	11.0036	3.6973	1.5049	5.2022	0.0000	6,166.1627	6,166.1627	1.9488	0.1442	6,216.1555
2023	37.0096	16.0027	20.1812	0.0435	1.2146	0.7183	1.9329	0.3285	0.6761	1.0046	0.0000	4,259.6849	4,259.6849	0.7171	0.1382	4,316.7612
2024	36.9924	1.2585	2.4122	4.6200e-003	0.1889	0.0618	0.2507	0.0501	0.0617	0.1118	0.0000	447.8601	447.8601	0.0201	4.1900e-003	449.6120
<b>Maximum</b>	<b>37.0096</b>	<b>46.4503</b>	<b>31.5597</b>	<b>0.0636</b>	<b>19.8049</b>	<b>2.0453</b>	<b>21.8501</b>	<b>10.1417</b>	<b>1.8816</b>	<b>12.0233</b>	<b>0.0000</b>	<b>6,166.8084</b>	<b>6,166.8084</b>	<b>1.9488</b>	<b>0.1442</b>	<b>6,216.8937</b>



TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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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	177.8192	3.4538	220.8166	0.3838		29.7167	29.7167		29.7167	29.7167	3,110.4338	1,321.1093	4,431.5432	2.8864	0.2447	4,576.6111
Energy	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245
Mobile	3.6824	4.4022	30.9517	0.0649	6.4047	0.0537	6.4584	1.7073	0.0504	1.7577		6,599.6830	6,599.6830	0.3446	0.3228	6,704.4815
<b>Total</b>	<b>181.5952</b>	<b>8.6558</b>	<b>252.1086</b>	<b>0.4538</b>	<b>6.4047</b>	<b>29.8351</b>	<b>36.2398</b>	<b>1.7073</b>	<b>29.8318</b>	<b>31.5391</b>	<b>3,110.4338</b>	<b>8,941.9486</b>	<b>12,052.3824</b>	<b>3.2506</b>	<b>0.5861</b>	<b>12,308.3170</b>

**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	6.4149	0.1064	9.2367	4.9000e-004		0.0512	0.0512		0.0512	0.0512	0.0000	16.6387	16.6387	0.0160	0.0000	17.0379
Energy	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245
Mobile	3.6824	4.4022	30.9517	0.0649	6.4047	0.0537	6.4584	1.7073	0.0504	1.7577		6,599.6830	6,599.6830	0.3446	0.3228	6,704.4815
<b>Total</b>	<b>10.1909</b>	<b>5.3085</b>	<b>40.5287</b>	<b>0.0705</b>	<b>6.4047</b>	<b>0.1696</b>	<b>6.5743</b>	<b>1.7073</b>	<b>0.1663</b>	<b>1.8736</b>	<b>0.0000</b>	<b>7,637.4780</b>	<b>7,637.4780</b>	<b>0.3802</b>	<b>0.3415</b>	<b>7,748.7438</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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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	94.39	38.67	83.92	84.47	0.00	99.43	81.86	0.00	99.44	94.06	100.00	14.59	36.63	88.30	41.74	37.04

**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	10/23/2021	11/19/2021	5	20	
2	Grading	Grading	11/20/2021	1/21/2022	5	45	
3	Building Construction	Building Construction	1/22/2022	9/29/2023	5	440	
4	Paving	Paving	9/30/2023	11/17/2023	5	35	
5	Architectural Coating	Architectural Coating	11/18/2023	1/5/2024	5	35	

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 4**

**Residential Indoor: 408,240; Residential Outdoor: 136,080; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 10,454 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**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	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	114.00	41.00	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	23.00	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 - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>19.6570</b>	<b>2.0445</b>	<b>21.7015</b>	<b>10.1025</b>	<b>1.8809</b>	<b>11.9834</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0775	0.0454	0.6131	1.4200e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		143.7885	143.7885	4.6400e-003	4.1900e-003	145.1522
<b>Total</b>	<b>0.0775</b>	<b>0.0454</b>	<b>0.6131</b>	<b>1.4200e-003</b>	<b>0.1479</b>	<b>8.0000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.3000e-004</b>	<b>0.0400</b>		<b>143.7885</b>	<b>143.7885</b>	<b>4.6400e-003</b>	<b>4.1900e-003</b>	<b>145.1522</b>

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**3.2 Site Preparation - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.656 9	3,685.656 9	1.1920		3,715.457 3
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>7.6662</b>	<b>2.0445</b>	<b>9.7107</b>	<b>3.9400</b>	<b>1.8809</b>	<b>5.8209</b>	<b>0.0000</b>	<b>3,685.656 9</b>	<b>3,685.656 9</b>	<b>1.1920</b>		<b>3,715.457 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0775	0.0454	0.6131	1.4200e-003	0.1350	8.0000e-004	0.1358	0.0361	7.3000e-004	0.0368		143.7885	143.7885	4.6400e-003	4.1900e-003	145.1522
<b>Total</b>	<b>0.0775</b>	<b>0.0454</b>	<b>0.6131</b>	<b>1.4200e-003</b>	<b>0.1350</b>	<b>8.0000e-004</b>	<b>0.1358</b>	<b>0.0361</b>	<b>7.3000e-004</b>	<b>0.0368</b>		<b>143.7885</b>	<b>143.7885</b>	<b>4.6400e-003</b>	<b>4.1900e-003</b>	<b>145.1522</b>



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**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>9.2036</b>	<b>1.9853</b>	<b>11.1889</b>	<b>3.6538</b>	<b>1.8265</b>	<b>5.4803</b>		<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0861	0.0504	0.6813	1.5800e-003	0.1643	8.8000e-004	0.1652	0.0436	8.1000e-004	0.0444		159.7650	159.7650	5.1600e-003	4.6500e-003	161.2802
<b>Total</b>	<b>0.0861</b>	<b>0.0504</b>	<b>0.6813</b>	<b>1.5800e-003</b>	<b>0.1643</b>	<b>8.8000e-004</b>	<b>0.1652</b>	<b>0.0436</b>	<b>8.1000e-004</b>	<b>0.0444</b>		<b>159.7650</b>	<b>159.7650</b>	<b>5.1600e-003</b>	<b>4.6500e-003</b>	<b>161.2802</b>

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**3.3 Grading - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>3.5894</b>	<b>1.9853</b>	<b>5.5747</b>	<b>1.4250</b>	<b>1.8265</b>	<b>3.2515</b>	<b>0.0000</b>	<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0861	0.0504	0.6813	1.5800e-003	0.1500	8.8000e-004	0.1509	0.0401	8.1000e-004	0.0409		159.7650	159.7650	5.1600e-003	4.6500e-003	161.2802
<b>Total</b>	<b>0.0861</b>	<b>0.0504</b>	<b>0.6813</b>	<b>1.5800e-003</b>	<b>0.1500</b>	<b>8.8000e-004</b>	<b>0.1509</b>	<b>0.0401</b>	<b>8.1000e-004</b>	<b>0.0409</b>		<b>159.7650</b>	<b>159.7650</b>	<b>5.1600e-003</b>	<b>4.6500e-003</b>	<b>161.2802</b>

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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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0792	0.0443	0.6192	1.5300e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		154.7522	154.7522	4.6200e-003	4.2700e-003	156.1397
<b>Total</b>	<b>0.0792</b>	<b>0.0443</b>	<b>0.6192</b>	<b>1.5300e-003</b>	<b>0.1643</b>	<b>8.3000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.6000e-004</b>	<b>0.0443</b>		<b>154.7522</b>	<b>154.7522</b>	<b>4.6200e-003</b>	<b>4.2700e-003</b>	<b>156.1397</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.5894</b>	<b>1.6349</b>	<b>5.2243</b>	<b>1.4250</b>	<b>1.5041</b>	<b>2.9291</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0792	0.0443	0.6192	1.5300e-003	0.1500	8.3000e-004	0.1508	0.0401	7.6000e-004	0.0408		154.7522	154.7522	4.6200e-003	4.2700e-003	156.1397
<b>Total</b>	<b>0.0792</b>	<b>0.0443</b>	<b>0.6192</b>	<b>1.5300e-003</b>	<b>0.1500</b>	<b>8.3000e-004</b>	<b>0.1508</b>	<b>0.0401</b>	<b>7.6000e-004</b>	<b>0.0408</b>		<b>154.7522</b>	<b>154.7522</b>	<b>4.6200e-003</b>	<b>4.2700e-003</b>	<b>156.1397</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0773	1.6750	0.7615	8.3400e-003	0.2781	0.0234	0.3015	0.0801	0.0224	0.1025		877.1869	877.1869	4.5000e-003	0.1199	913.0324
Worker	0.4514	0.2523	3.5295	8.7300e-003	0.9365	4.7100e-003	0.9412	0.2484	4.3400e-003	0.2527		882.0874	882.0874	0.0263	0.0243	889.9963
<b>Total</b>	<b>0.5288</b>	<b>1.9274</b>	<b>4.2909</b>	<b>0.0171</b>	<b>1.2146</b>	<b>0.0281</b>	<b>1.2427</b>	<b>0.3285</b>	<b>0.0267</b>	<b>0.3552</b>		<b>1,759.2743</b>	<b>1,759.2743</b>	<b>0.0308</b>	<b>0.1442</b>	<b>1,803.0287</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0773	1.6750	0.7615	8.3400e-003	0.2583	0.0234	0.2817	0.0752	0.0224	0.0976		877.1869	877.1869	4.5000e-003	0.1199	913.0324
Worker	0.4514	0.2523	3.5295	8.7300e-003	0.8551	4.7100e-003	0.8598	0.2284	4.3400e-003	0.2328		882.0874	882.0874	0.0263	0.0243	889.9963
<b>Total</b>	<b>0.5288</b>	<b>1.9274</b>	<b>4.2909</b>	<b>0.0171</b>	<b>1.1134</b>	<b>0.0281</b>	<b>1.1415</b>	<b>0.3037</b>	<b>0.0267</b>	<b>0.3304</b>		<b>1,759.2743</b>	<b>1,759.2743</b>	<b>0.0308</b>	<b>0.1442</b>	<b>1,803.0287</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0632	1.3956	0.7139	8.1000e-003	0.2781	0.0142	0.2923	0.0801	0.0136	0.0937		851.0590	851.0590	3.7700e-003	0.1158	885.6678
Worker	0.4161	0.2223	3.2233	8.4400e-003	0.9365	4.4200e-003	0.9409	0.2484	4.0700e-003	0.2525		853.4160	853.4160	0.0236	0.0224	860.6874
<b>Total</b>	<b>0.4793</b>	<b>1.6178</b>	<b>3.9372</b>	<b>0.0165</b>	<b>1.2146</b>	<b>0.0186</b>	<b>1.2332</b>	<b>0.3285</b>	<b>0.0176</b>	<b>0.3461</b>		<b>1,704.4750</b>	<b>1,704.4750</b>	<b>0.0274</b>	<b>0.1382</b>	<b>1,746.3551</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0632	1.3956	0.7139	8.1000e-003	0.2583	0.0142	0.2725	0.0752	0.0136	0.0888		851.0590	851.0590	3.7700e-003	0.1158	885.6678
Worker	0.4161	0.2223	3.2233	8.4400e-003	0.8551	4.4200e-003	0.8595	0.2284	4.0700e-003	0.2325		853.4160	853.4160	0.0236	0.0224	860.6874
<b>Total</b>	<b>0.4793</b>	<b>1.6178</b>	<b>3.9372</b>	<b>0.0165</b>	<b>1.1134</b>	<b>0.0186</b>	<b>1.1320</b>	<b>0.3037</b>	<b>0.0176</b>	<b>0.3213</b>		<b>1,704.4750</b>	<b>1,704.4750</b>	<b>0.0274</b>	<b>0.1382</b>	<b>1,746.3551</b>



TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3322</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0292	0.4241	1.1100e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		112.2916	112.2916	3.1100e-003	2.9500e-003	113.2483
<b>Total</b>	<b>0.0548</b>	<b>0.0292</b>	<b>0.4241</b>	<b>1.1100e-003</b>	<b>0.1232</b>	<b>5.8000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.4000e-004</b>	<b>0.0332</b>		<b>112.2916</b>	<b>112.2916</b>	<b>3.1100e-003</b>	<b>2.9500e-003</b>	<b>113.2483</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3322</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0292	0.4241	1.1100e-003	0.1125	5.8000e-004	0.1131	0.0301	5.4000e-004	0.0306		112.2916	112.2916	3.1100e-003	2.9500e-003	113.2483
<b>Total</b>	<b>0.0548</b>	<b>0.0292</b>	<b>0.4241</b>	<b>1.1100e-003</b>	<b>0.1125</b>	<b>5.8000e-004</b>	<b>0.1131</b>	<b>0.0301</b>	<b>5.4000e-004</b>	<b>0.0306</b>		<b>112.2916</b>	<b>112.2916</b>	<b>3.1100e-003</b>	<b>2.9500e-003</b>	<b>113.2483</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	36.7340					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
<b>Total</b>	<b>36.9256</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0840	0.0448	0.6503	1.7000e-003	0.1889	8.9000e-004	0.1898	0.0501	8.2000e-004	0.0509		172.1804	172.1804	4.7700e-003	4.5200e-003	173.6475
<b>Total</b>	<b>0.0840</b>	<b>0.0448</b>	<b>0.6503</b>	<b>1.7000e-003</b>	<b>0.1889</b>	<b>8.9000e-004</b>	<b>0.1898</b>	<b>0.0501</b>	<b>8.2000e-004</b>	<b>0.0509</b>		<b>172.1804</b>	<b>172.1804</b>	<b>4.7700e-003</b>	<b>4.5200e-003</b>	<b>173.6475</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	36.7340					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
<b>Total</b>	<b>36.9256</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0840	0.0448	0.6503	1.7000e-003	0.1725	8.9000e-004	0.1734	0.0461	8.2000e-004	0.0469		172.1804	172.1804	4.7700e-003	4.5200e-003	173.6475
<b>Total</b>	<b>0.0840</b>	<b>0.0448</b>	<b>0.6503</b>	<b>1.7000e-003</b>	<b>0.1725</b>	<b>8.9000e-004</b>	<b>0.1734</b>	<b>0.0461</b>	<b>8.2000e-004</b>	<b>0.0469</b>		<b>172.1804</b>	<b>172.1804</b>	<b>4.7700e-003</b>	<b>4.5200e-003</b>	<b>173.6475</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>36.9147</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0777	0.0397	0.6020	1.6500e-003	0.1889	8.4000e-004	0.1898	0.0501	7.7000e-004	0.0509		166.4121	166.4121	4.2900e-003	4.1900e-003	167.7678
<b>Total</b>	<b>0.0777</b>	<b>0.0397</b>	<b>0.6020</b>	<b>1.6500e-003</b>	<b>0.1889</b>	<b>8.4000e-004</b>	<b>0.1898</b>	<b>0.0501</b>	<b>7.7000e-004</b>	<b>0.0509</b>		<b>166.4121</b>	<b>166.4121</b>	<b>4.2900e-003</b>	<b>4.1900e-003</b>	<b>167.7678</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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

**3.6 Architectural Coating - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>36.9147</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0777	0.0397	0.6020	1.6500e-003	0.1725	8.4000e-004	0.1734	0.0461	7.7000e-004	0.0469		166.4121	166.4121	4.2900e-003	4.1900e-003	167.7678
<b>Total</b>	<b>0.0777</b>	<b>0.0397</b>	<b>0.6020</b>	<b>1.6500e-003</b>	<b>0.1725</b>	<b>8.4000e-004</b>	<b>0.1734</b>	<b>0.0461</b>	<b>7.7000e-004</b>	<b>0.0469</b>		<b>166.4121</b>	<b>166.4121</b>	<b>4.2900e-003</b>	<b>4.1900e-003</b>	<b>167.7678</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.6824	4.4022	30.9517	0.0649	6.4047	0.0537	6.4584	1.7073	0.0504	1.7577		6,599.6830	6,599.6830	0.3446	0.3228	6,704.4815
Unmitigated	3.6824	4.4022	30.9517	0.0649	6.4047	0.0537	6.4584	1.7073	0.0504	1.7577		6,599.6830	6,599.6830	0.3446	0.3228	6,704.4815

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,057.28	1,068.48	957.60	2,966,903	2,966,903
<b>Total</b>	<b>1,057.28</b>	<b>1,068.48</b>	<b>957.60</b>	<b>2,966,903</b>	<b>2,966,903</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423
Single Family Housing	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423

**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	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245
NaturalGas Unmitigated	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245



TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8679.83	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245
<b>Total</b>		<b>0.0936</b>	<b>0.7999</b>	<b>0.3404</b>	<b>5.1100e-003</b>		<b>0.0647</b>	<b>0.0647</b>		<b>0.0647</b>	<b>0.0647</b>		<b>1,021.1563</b>	<b>1,021.1563</b>	<b>0.0196</b>	<b>0.0187</b>	<b>1,027.2245</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8.67983	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245
<b>Total</b>		<b>0.0936</b>	<b>0.7999</b>	<b>0.3404</b>	<b>5.1100e-003</b>		<b>0.0647</b>	<b>0.0647</b>		<b>0.0647</b>	<b>0.0647</b>		<b>1,021.1563</b>	<b>1,021.1563</b>	<b>0.0196</b>	<b>0.0187</b>	<b>1,027.2245</b>

**6.0 Area Detail**

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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

**6.1 Mitigation Measures Area**

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.4149	0.1064	9.2367	4.9000e-004		0.0512	0.0512		0.0512	0.0512	0.0000	16.6387	16.6387	0.0160	0.0000	17.0379
Unmitigated	177.8192	3.4538	220.8166	0.3838		29.7167	29.7167		29.7167	29.7167	3,110.4338	1,321.1093	4,431.5432	2.8864	0.2447	4,576.6111

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7612					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	171.4042	3.3473	211.5799	0.3833		29.6655	29.6655		29.6655	29.6655	3,110.4338	1,304.4706	4,414.9044	2.8704	0.2447	4,559.5732
Landscaping	0.2778	0.1064	9.2367	4.9000e-004		0.0512	0.0512		0.0512	0.0512		16.6387	16.6387	0.0160		17.0379
<b>Total</b>	<b>177.8192</b>	<b>3.4538</b>	<b>220.8166</b>	<b>0.3838</b>		<b>29.7167</b>	<b>29.7167</b>		<b>29.7167</b>	<b>29.7167</b>	<b>3,110.4338</b>	<b>1,321.1093</b>	<b>4,431.5432</b>	<b>2.8864</b>	<b>0.2447</b>	<b>4,576.6111</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7612					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3760					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	0.2778	0.1064	9.2367	4.9000e-004		0.0512	0.0512		0.0512	0.0512		16.6387	16.6387	0.0160		17.0379
<b>Total</b>	<b>6.4149</b>	<b>0.1064</b>	<b>9.2367</b>	<b>4.9000e-004</b>		<b>0.0512</b>	<b>0.0512</b>		<b>0.0512</b>	<b>0.0512</b>	<b>0.0000</b>	<b>16.6387</b>	<b>16.6387</b>	<b>0.0160</b>	<b>0.0000</b>	<b>17.0379</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**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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TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**TTM 20434 Hesperia**  
**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	112.00	Dwelling Unit	24.86	201,600.00	320
Other Asphalt Surfaces	4.00	Acre	4.00	174,240.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - SFR 112 Units on approximately 28.86 acres per TTM
- Construction Phase - Removed demolition phase from defaults
- Construction Off-road Equipment Mitigation - Included PM reduction of 10% for cleaning local paved roads in/out of project during construction.
- Architectural Coating - VOC changed per Rule 1113 compliance
- Woodstoves -
- Area Mitigation - No Hearth selected for project

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblLandUse	LotAcreage	36.36	24.86

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2684	46.4517	31.4196	0.0634	19.8049	2.0453	21.8501	10.1417	1.8816	12.0233	0.0000	6,148.8915	6,148.8915	1.9480	4.7300e-003	6,199.0020
2022	3.6961	38.8890	29.5350	0.0634	9.3679	1.6357	11.0036	3.6973	1.5049	5.2022	0.0000	6,148.8621	6,148.8621	1.9489	0.1450	6,198.8783
2023	37.0013	16.0988	19.5599	0.0426	1.2146	0.7184	1.9330	0.3285	0.6761	1.0046	0.0000	4,166.9431	4,166.9431	0.7172	0.1391	4,224.2922
2024	36.9849	1.2596	2.2925	4.4300e-003	0.1889	0.0618	0.2507	0.0501	0.0617	0.1118	0.0000	429.3569	429.3569	0.0202	4.2600e-003	431.1321
<b>Maximum</b>	<b>37.0013</b>	<b>46.4517</b>	<b>31.4196</b>	<b>0.0634</b>	<b>19.8049</b>	<b>2.0453</b>	<b>21.8501</b>	<b>10.1417</b>	<b>1.8816</b>	<b>12.0233</b>	<b>0.0000</b>	<b>6,148.8915</b>	<b>6,148.8915</b>	<b>1.9489</b>	<b>0.1450</b>	<b>6,199.0020</b>





TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	177.8192	3.4538	220.8166	0.3838		29.7167	29.7167		29.7167	29.7167	3,110.4338	1,321.1093	4,431.5432	2.8864	0.2447	4,576.6111
Energy	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245
Mobile	3.0281	4.6673	27.1552	0.0594	6.4047	0.0537	6.4585	1.7073	0.0505	1.7578		6,046.1772	6,046.1772	0.3549	0.3293	6,153.1669
<b>Total</b>	<b>180.9409</b>	<b>8.9210</b>	<b>248.3122</b>	<b>0.4483</b>	<b>6.4047</b>	<b>29.8351</b>	<b>36.2398</b>	<b>1.7073</b>	<b>29.8319</b>	<b>31.5392</b>	<b>3,110.4338</b>	<b>8,388.4427</b>	<b>11,498.8766</b>	<b>3.2609</b>	<b>0.5926</b>	<b>11,757.0024</b>

**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	6.4149	0.1064	9.2367	4.9000e-004		0.0512	0.0512		0.0512	0.0512	0.0000	16.6387	16.6387	0.0160	0.0000	17.0379
Energy	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245
Mobile	3.0281	4.6673	27.1552	0.0594	6.4047	0.0537	6.4585	1.7073	0.0505	1.7578		6,046.1772	6,046.1772	0.3549	0.3293	6,153.1669
<b>Total</b>	<b>9.5367</b>	<b>5.5736</b>	<b>36.7322</b>	<b>0.0650</b>	<b>6.4047</b>	<b>0.1696</b>	<b>6.5743</b>	<b>1.7073</b>	<b>0.1663</b>	<b>1.8737</b>	<b>0.0000</b>	<b>7,083.9722</b>	<b>7,083.9722</b>	<b>0.3904</b>	<b>0.3480</b>	<b>7,197.4292</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	94.73	37.52	85.21	85.51	0.00	99.43	81.86	0.00	99.44	94.06	100.00	15.55	38.39	88.03	41.28	38.78

**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	10/23/2021	11/19/2021	5	20	
2	Grading	Grading	11/20/2021	1/21/2022	5	45	
3	Building Construction	Building Construction	1/22/2022	9/29/2023	5	440	
4	Paving	Paving	9/30/2023	11/17/2023	5	35	
5	Architectural Coating	Architectural Coating	11/18/2023	1/5/2024	5	35	

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 4**

**Residential Indoor: 408,240; Residential Outdoor: 136,080; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 10,454 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**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	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	114.00	41.00	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	23.00	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 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>19.6570</b>	<b>2.0445</b>	<b>21.7015</b>	<b>10.1025</b>	<b>1.8809</b>	<b>11.9834</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0696	0.0467	0.4870	1.2600e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		127.6633	127.6633	4.6900e-003	4.2600e-003	129.0497
<b>Total</b>	<b>0.0696</b>	<b>0.0467</b>	<b>0.4870</b>	<b>1.2600e-003</b>	<b>0.1479</b>	<b>8.0000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.3000e-004</b>	<b>0.0400</b>		<b>127.6633</b>	<b>127.6633</b>	<b>4.6900e-003</b>	<b>4.2600e-003</b>	<b>129.0497</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**3.2 Site Preparation - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.656 9	3,685.656 9	1.1920		3,715.457 3
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>7.6662</b>	<b>2.0445</b>	<b>9.7107</b>	<b>3.9400</b>	<b>1.8809</b>	<b>5.8209</b>	<b>0.0000</b>	<b>3,685.656 9</b>	<b>3,685.656 9</b>	<b>1.1920</b>		<b>3,715.457 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0696	0.0467	0.4870	1.2600e-003	0.1350	8.0000e-004	0.1358	0.0361	7.3000e-004	0.0368		127.6633	127.6633	4.6900e-003	4.2600e-003	129.0497
<b>Total</b>	<b>0.0696</b>	<b>0.0467</b>	<b>0.4870</b>	<b>1.2600e-003</b>	<b>0.1350</b>	<b>8.0000e-004</b>	<b>0.1358</b>	<b>0.0361</b>	<b>7.3000e-004</b>	<b>0.0368</b>		<b>127.6633</b>	<b>127.6633</b>	<b>4.6900e-003</b>	<b>4.2600e-003</b>	<b>129.0497</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>9.2036</b>	<b>1.9853</b>	<b>11.1889</b>	<b>3.6538</b>	<b>1.8265</b>	<b>5.4803</b>		<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0773	0.0519	0.5411	1.4000e-003	0.1643	8.8000e-004	0.1652	0.0436	8.1000e-004	0.0444		141.8481	141.8481	5.2100e-003	4.7300e-003	143.3885
<b>Total</b>	<b>0.0773</b>	<b>0.0519</b>	<b>0.5411</b>	<b>1.4000e-003</b>	<b>0.1643</b>	<b>8.8000e-004</b>	<b>0.1652</b>	<b>0.0436</b>	<b>8.1000e-004</b>	<b>0.0444</b>		<b>141.8481</b>	<b>141.8481</b>	<b>5.2100e-003</b>	<b>4.7300e-003</b>	<b>143.3885</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**3.3 Grading - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>3.5894</b>	<b>1.9853</b>	<b>5.5747</b>	<b>1.4250</b>	<b>1.8265</b>	<b>3.2515</b>	<b>0.0000</b>	<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0773	0.0519	0.5411	1.4000e-003	0.1500	8.8000e-004	0.1509	0.0401	8.1000e-004	0.0409		141.8481	141.8481	5.2100e-003	4.7300e-003	143.3885
<b>Total</b>	<b>0.0773</b>	<b>0.0519</b>	<b>0.5411</b>	<b>1.4000e-003</b>	<b>0.1500</b>	<b>8.8000e-004</b>	<b>0.1509</b>	<b>0.0401</b>	<b>8.1000e-004</b>	<b>0.0409</b>		<b>141.8481</b>	<b>141.8481</b>	<b>5.2100e-003</b>	<b>4.7300e-003</b>	<b>143.3885</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0455	0.4935	1.3600e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		137.4515	137.4515	4.6900e-003	4.3400e-003	138.8624
<b>Total</b>	<b>0.0713</b>	<b>0.0455</b>	<b>0.4935</b>	<b>1.3600e-003</b>	<b>0.1643</b>	<b>8.3000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.6000e-004</b>	<b>0.0443</b>		<b>137.4515</b>	<b>137.4515</b>	<b>4.6900e-003</b>	<b>4.3400e-003</b>	<b>138.8624</b>



TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.5894</b>	<b>1.6349</b>	<b>5.2243</b>	<b>1.4250</b>	<b>1.5041</b>	<b>2.9291</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0455	0.4935	1.3600e-003	0.1500	8.3000e-004	0.1508	0.0401	7.6000e-004	0.0408		137.4515	137.4515	4.6900e-003	4.3400e-003	138.8624
<b>Total</b>	<b>0.0713</b>	<b>0.0455</b>	<b>0.4935</b>	<b>1.3600e-003</b>	<b>0.1500</b>	<b>8.3000e-004</b>	<b>0.1508</b>	<b>0.0401</b>	<b>7.6000e-004</b>	<b>0.0408</b>		<b>137.4515</b>	<b>137.4515</b>	<b>4.6900e-003</b>	<b>4.3400e-003</b>	<b>138.8624</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0737	1.7714	0.7901	8.3600e-003	0.2781	0.0235	0.3016	0.0801	0.0225	0.1025		878.6046	878.6046	4.3400e-003	0.1203	914.5592
Worker	0.4062	0.2595	2.8131	7.7500e-003	0.9365	4.7100e-003	0.9412	0.2484	4.3400e-003	0.2527		783.4736	783.4736	0.0267	0.0247	791.5159
<b>Total</b>	<b>0.4799</b>	<b>2.0309</b>	<b>3.6032</b>	<b>0.0161</b>	<b>1.2146</b>	<b>0.0282</b>	<b>1.2428</b>	<b>0.3285</b>	<b>0.0268</b>	<b>0.3553</b>		<b>1,662.0782</b>	<b>1,662.0782</b>	<b>0.0311</b>	<b>0.1450</b>	<b>1,706.0751</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0737	1.7714	0.7901	8.3600e-003	0.2583	0.0235	0.2818	0.0752	0.0225	0.0977		878.6046	878.6046	4.3400e-003	0.1203	914.5592
Worker	0.4062	0.2595	2.8131	7.7500e-003	0.8551	4.7100e-003	0.8598	0.2284	4.3400e-003	0.2328		783.4736	783.4736	0.0267	0.0247	791.5159
<b>Total</b>	<b>0.4799</b>	<b>2.0309</b>	<b>3.6032</b>	<b>0.0161</b>	<b>1.1134</b>	<b>0.0282</b>	<b>1.1416</b>	<b>0.3037</b>	<b>0.0268</b>	<b>0.3304</b>		<b>1,662.0782</b>	<b>1,662.0782</b>	<b>0.0311</b>	<b>0.1450</b>	<b>1,706.0751</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0591	1.4854	0.7387	8.1200e-003	0.2781	0.0142	0.2923	0.0801	0.0136	0.0937		853.4490	853.4490	3.5900e-003	0.1163	888.2068
Worker	0.3753	0.2285	2.5772	7.5000e-003	0.9365	4.4200e-003	0.9409	0.2484	4.0700e-003	0.2525		758.2842	758.2842	0.0241	0.0228	765.6794
<b>Total</b>	<b>0.4344</b>	<b>1.7139</b>	<b>3.3159</b>	<b>0.0156</b>	<b>1.2146</b>	<b>0.0187</b>	<b>1.2332</b>	<b>0.3285</b>	<b>0.0177</b>	<b>0.3462</b>		<b>1,611.7332</b>	<b>1,611.7332</b>	<b>0.0277</b>	<b>0.1391</b>	<b>1,653.8861</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0591	1.4854	0.7387	8.1200e-003	0.2583	0.0142	0.2725	0.0752	0.0136	0.0888		853.4490	853.4490	3.5900e-003	0.1163	888.2068
Worker	0.3753	0.2285	2.5772	7.5000e-003	0.8551	4.4200e-003	0.8595	0.2284	4.0700e-003	0.2325		758.2842	758.2842	0.0241	0.0228	765.6794
<b>Total</b>	<b>0.4344</b>	<b>1.7139</b>	<b>3.3159</b>	<b>0.0156</b>	<b>1.1134</b>	<b>0.0187</b>	<b>1.1320</b>	<b>0.3037</b>	<b>0.0177</b>	<b>0.3213</b>		<b>1,611.7332</b>	<b>1,611.7332</b>	<b>0.0277</b>	<b>0.1391</b>	<b>1,653.8861</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3322</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.3391	9.9000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		99.7742	99.7742	3.1700e-003	3.0000e-003	100.7473
<b>Total</b>	<b>0.0494</b>	<b>0.0301</b>	<b>0.3391</b>	<b>9.9000e-004</b>	<b>0.1232</b>	<b>5.8000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.4000e-004</b>	<b>0.0332</b>		<b>99.7742</b>	<b>99.7742</b>	<b>3.1700e-003</b>	<b>3.0000e-003</b>	<b>100.7473</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3322</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.3391	9.9000e-004	0.1125	5.8000e-004	0.1131	0.0301	5.4000e-004	0.0306		99.7742	99.7742	3.1700e-003	3.0000e-003	100.7473
<b>Total</b>	<b>0.0494</b>	<b>0.0301</b>	<b>0.3391</b>	<b>9.9000e-004</b>	<b>0.1125</b>	<b>5.8000e-004</b>	<b>0.1131</b>	<b>0.0301</b>	<b>5.4000e-004</b>	<b>0.0306</b>		<b>99.7742</b>	<b>99.7742</b>	<b>3.1700e-003</b>	<b>3.0000e-003</b>	<b>100.7473</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	36.7340					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
<b>Total</b>	<b>36.9256</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0757	0.0461	0.5200	1.5100e-003	0.1889	8.9000e-004	0.1898	0.0501	8.2000e-004	0.0509		152.9872	152.9872	4.8600e-003	4.6000e-003	154.4792
<b>Total</b>	<b>0.0757</b>	<b>0.0461</b>	<b>0.5200</b>	<b>1.5100e-003</b>	<b>0.1889</b>	<b>8.9000e-004</b>	<b>0.1898</b>	<b>0.0501</b>	<b>8.2000e-004</b>	<b>0.0509</b>		<b>152.9872</b>	<b>152.9872</b>	<b>4.8600e-003</b>	<b>4.6000e-003</b>	<b>154.4792</b>



TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	36.7340					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
<b>Total</b>	<b>36.9256</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0757	0.0461	0.5200	1.5100e-003	0.1725	8.9000e-004	0.1734	0.0461	8.2000e-004	0.0469		152.9872	152.9872	4.8600e-003	4.6000e-003	154.4792
<b>Total</b>	<b>0.0757</b>	<b>0.0461</b>	<b>0.5200</b>	<b>1.5100e-003</b>	<b>0.1725</b>	<b>8.9000e-004</b>	<b>0.1734</b>	<b>0.0461</b>	<b>8.2000e-004</b>	<b>0.0469</b>		<b>152.9872</b>	<b>152.9872</b>	<b>4.8600e-003</b>	<b>4.6000e-003</b>	<b>154.4792</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>36.9147</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0702	0.0408	0.4824	1.4600e-003	0.1889	8.4000e-004	0.1898	0.0501	7.7000e-004	0.0509		147.9089	147.9089	4.3900e-003	4.2600e-003	149.2878
<b>Total</b>	<b>0.0702</b>	<b>0.0408</b>	<b>0.4824</b>	<b>1.4600e-003</b>	<b>0.1889</b>	<b>8.4000e-004</b>	<b>0.1898</b>	<b>0.0501</b>	<b>7.7000e-004</b>	<b>0.0509</b>		<b>147.9089</b>	<b>147.9089</b>	<b>4.3900e-003</b>	<b>4.2600e-003</b>	<b>149.2878</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**3.6 Architectural Coating - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>36.9147</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0702	0.0408	0.4824	1.4600e-003	0.1725	8.4000e-004	0.1734	0.0461	7.7000e-004	0.0469		147.9089	147.9089	4.3900e-003	4.2600e-003	149.2878
<b>Total</b>	<b>0.0702</b>	<b>0.0408</b>	<b>0.4824</b>	<b>1.4600e-003</b>	<b>0.1725</b>	<b>8.4000e-004</b>	<b>0.1734</b>	<b>0.0461</b>	<b>7.7000e-004</b>	<b>0.0469</b>		<b>147.9089</b>	<b>147.9089</b>	<b>4.3900e-003</b>	<b>4.2600e-003</b>	<b>149.2878</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.0281	4.6673	27.1552	0.0594	6.4047	0.0537	6.4585	1.7073	0.0505	1.7578		6,046.177 2	6,046.177 2	0.3549	0.3293	6,153.166 9
Unmitigated	3.0281	4.6673	27.1552	0.0594	6.4047	0.0537	6.4585	1.7073	0.0505	1.7578		6,046.177 2	6,046.177 2	0.3549	0.3293	6,153.166 9

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,057.28	1,068.48	957.60	2,966,903	2,966,903
<b>Total</b>	<b>1,057.28</b>	<b>1,068.48</b>	<b>957.60</b>	<b>2,966,903</b>	<b>2,966,903</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423
Single Family Housing	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423

**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	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245
NaturalGas Unmitigated	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8679.83	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245
<b>Total</b>		<b>0.0936</b>	<b>0.7999</b>	<b>0.3404</b>	<b>5.1100e-003</b>		<b>0.0647</b>	<b>0.0647</b>		<b>0.0647</b>	<b>0.0647</b>		<b>1,021.1563</b>	<b>1,021.1563</b>	<b>0.0196</b>	<b>0.0187</b>	<b>1,027.2245</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8.67983	0.0936	0.7999	0.3404	5.1100e-003		0.0647	0.0647		0.0647	0.0647		1,021.1563	1,021.1563	0.0196	0.0187	1,027.2245
<b>Total</b>		<b>0.0936</b>	<b>0.7999</b>	<b>0.3404</b>	<b>5.1100e-003</b>		<b>0.0647</b>	<b>0.0647</b>		<b>0.0647</b>	<b>0.0647</b>		<b>1,021.1563</b>	<b>1,021.1563</b>	<b>0.0196</b>	<b>0.0187</b>	<b>1,027.2245</b>

**6.0 Area Detail**

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**6.1 Mitigation Measures Area**

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.4149	0.1064	9.2367	4.9000e-004		0.0512	0.0512		0.0512	0.0512	0.0000	16.6387	16.6387	0.0160	0.0000	17.0379
Unmitigated	177.8192	3.4538	220.8166	0.3838		29.7167	29.7167		29.7167	29.7167	3,110.4338	1,321.1093	4,431.5432	2.8864	0.2447	4,576.6111

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7612					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	171.4042	3.3473	211.5799	0.3833		29.6655	29.6655		29.6655	29.6655	3,110.4338	1,304.4706	4,414.9044	2.8704	0.2447	4,559.5732
Landscaping	0.2778	0.1064	9.2367	4.9000e-004		0.0512	0.0512		0.0512	0.0512		16.6387	16.6387	0.0160		17.0379
<b>Total</b>	<b>177.8192</b>	<b>3.4538</b>	<b>220.8166</b>	<b>0.3838</b>		<b>29.7167</b>	<b>29.7167</b>		<b>29.7167</b>	<b>29.7167</b>	<b>3,110.4338</b>	<b>1,321.1093</b>	<b>4,431.5432</b>	<b>2.8864</b>	<b>0.2447</b>	<b>4,576.6111</b>



TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7612					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3760					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	0.2778	0.1064	9.2367	4.9000e-004		0.0512	0.0512		0.0512	0.0512		16.6387	16.6387	0.0160		17.0379
<b>Total</b>	<b>6.4149</b>	<b>0.1064</b>	<b>9.2367</b>	<b>4.9000e-004</b>		<b>0.0512</b>	<b>0.0512</b>		<b>0.0512</b>	<b>0.0512</b>	<b>0.0000</b>	<b>16.6387</b>	<b>16.6387</b>	<b>0.0160</b>	<b>0.0000</b>	<b>17.0379</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**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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TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**TTM 20434 Hesperia**  
**Mojave Desert AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	112.00	Dwelling Unit	24.86	201,600.00	320
Other Asphalt Surfaces	4.00	Acre	4.00	174,240.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -  
 Land Use - SFR 112 Units on approximately 28.86 acres per TTM  
 Construction Phase - Removed demolition phase from defaults  
 Construction Off-road Equipment Mitigation - Included PM reduction of 10% for cleaning local paved roads in/out of project during construction.  
 Architectural Coating - VOC changed per Rule 1113 compliance  
 Woodstoves -  
 Area Mitigation - No Hearth selected for project

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblLandUse	LotAcreage	36.36	24.86

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1035	1.1023	0.6887	1.3500e-003	0.3624	0.0503	0.4126	0.1594	0.0462	0.2057	0.0000	118.3542	118.3542	0.0374	1.1000e-004	119.3205
2022	0.2922	2.4551	2.6908	5.7700e-003	0.2642	0.1148	0.3790	0.0725	0.1078	0.1803	0.0000	512.8044	512.8044	0.0848	0.0163	519.7698
2023	0.7723	1.7691	2.2211	4.6500e-003	0.1213	0.0801	0.2014	0.0328	0.0752	0.1081	0.0000	412.9824	412.9824	0.0680	0.0125	418.4042
2024	0.0925	3.1600e-003	5.8200e-003	1.0000e-005	4.6000e-004	1.5000e-004	6.2000e-004	1.2000e-004	1.5000e-004	2.8000e-004	0.0000	0.9832	0.9832	5.0000e-005	1.0000e-005	0.9874
<b>Maximum</b>	<b>0.7723</b>	<b>2.4551</b>	<b>2.6908</b>	<b>5.7700e-003</b>	<b>0.3624</b>	<b>0.1148</b>	<b>0.4126</b>	<b>0.1594</b>	<b>0.1078</b>	<b>0.2057</b>	<b>0.0000</b>	<b>512.8044</b>	<b>512.8044</b>	<b>0.0848</b>	<b>0.0163</b>	<b>519.7698</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**2.1 Overall Construction**

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1035	1.1023	0.6887	1.3500e-003	0.1434	0.0503	0.1936	0.0627	0.0462	0.1090	0.0000	118.3541	118.3541	0.0374	1.1000e-004	119.3203
2022	0.2922	2.4551	2.6908	5.7700e-003	0.1807	0.1148	0.2956	0.0496	0.1078	0.1574	0.0000	512.8040	512.8040	0.0848	0.0163	519.7694
2023	0.7723	1.7691	2.2211	4.6500e-003	0.1112	0.0801	0.1913	0.0304	0.0752	0.1056	0.0000	412.9821	412.9821	0.0680	0.0125	418.4039
2024	0.0925	3.1600e-003	5.8200e-003	1.0000e-005	4.2000e-004	1.5000e-004	5.8000e-004	1.1000e-004	1.5000e-004	2.7000e-004	0.0000	0.9832	0.9832	5.0000e-005	1.0000e-005	0.9873
<b>Maximum</b>	<b>0.7723</b>	<b>2.4551</b>	<b>2.6908</b>	<b>5.7700e-003</b>	<b>0.1807</b>	<b>0.1148</b>	<b>0.2956</b>	<b>0.0627</b>	<b>0.1078</b>	<b>0.1574</b>	<b>0.0000</b>	<b>512.8040</b>	<b>512.8040</b>	<b>0.0848</b>	<b>0.0163</b>	<b>519.7694</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>41.77</b>	<b>0.00</b>	<b>31.46</b>	<b>46.08</b>	<b>0.00</b>	<b>24.70</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-13-2021	12-12-2021	0.8616	0.8616
2	12-13-2021	3-12-2022	1.0177	1.0177
3	3-13-2022	6-12-2022	0.6502	0.6502
4	6-13-2022	9-12-2022	0.6498	0.6498
5	9-13-2022	12-12-2022	0.6442	0.6442
6	12-13-2022	3-12-2023	0.5937	0.5937
7	3-13-2023	6-12-2023	0.5936	0.5936
8	6-13-2023	9-12-2023	0.5932	0.5932

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

9	9-13-2023	12-12-2023	0.6551	0.6551
10	12-13-2023	3-12-2024	0.3285	0.3285
		Highest	1.0177	1.0177

**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	8.1726	0.1468	9.5061	0.0158		1.2209	1.2209		1.2209	1.2209	115.6913	49.8777	165.5690	0.1081	9.1000e-003	170.9825
Energy	0.0171	0.1460	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	327.2635	327.2635	0.0166	4.7200e-003	329.0843
Mobile	0.5344	0.8487	5.1204	0.0108	1.1195	9.5500e-003	1.1291	0.2989	8.9700e-003	0.3078	0.0000	994.8954	994.8954	0.0585	0.0541	1,012.4833
Waste						0.0000	0.0000		0.0000	0.0000	26.6324	0.0000	26.6324	1.5739	0.0000	65.9807
Water						0.0000	0.0000		0.0000	0.0000	2.3151	25.9152	28.2303	0.2400	5.8800e-003	35.9817
<b>Total</b>	<b>8.7241</b>	<b>1.1415</b>	<b>14.6886</b>	<b>0.0275</b>	<b>1.1195</b>	<b>1.2422</b>	<b>2.3617</b>	<b>0.2989</b>	<b>1.2417</b>	<b>1.5405</b>	<b>144.6388</b>	<b>1,397.9519</b>	<b>1,542.5907</b>	<b>1.9971</b>	<b>0.0738</b>	<b>1,614.5124</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**2.2 Overall Operational**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1450	9.5800e-003	0.8313	4.0000e-005		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	1.3585	1.3585	1.3000e-003	0.0000	1.3911
Energy	0.0171	0.1460	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	327.2635	327.2635	0.0166	4.7200e-003	329.0843
Mobile	0.5344	0.8487	5.1204	0.0108	1.1195	9.5500e-003	1.1291	0.2989	8.9700e-003	0.3078	0.0000	994.8954	994.8954	0.0585	0.0541	1,012.4833
Waste						0.0000	0.0000		0.0000	0.0000	26.6324	0.0000	26.6324	1.5739	0.0000	65.9807
Water						0.0000	0.0000		0.0000	0.0000	2.3151	25.9152	28.2303	0.2400	5.8800e-003	35.9817
<b>Total</b>	<b>1.6965</b>	<b>1.0042</b>	<b>6.0138</b>	<b>0.0117</b>	<b>1.1195</b>	<b>0.0260</b>	<b>1.1455</b>	<b>0.2989</b>	<b>0.0254</b>	<b>0.3242</b>	<b>28.9475</b>	<b>1,349.4327</b>	<b>1,378.3802</b>	<b>1.8903</b>	<b>0.0647</b>	<b>1,444.9210</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>80.55</b>	<b>12.02</b>	<b>59.06</b>	<b>57.25</b>	<b>0.00</b>	<b>97.91</b>	<b>51.50</b>	<b>0.00</b>	<b>97.96</b>	<b>78.95</b>	<b>79.99</b>	<b>3.47</b>	<b>10.65</b>	<b>5.35</b>	<b>12.33</b>	<b>10.50</b>

**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	10/23/2021	11/19/2021	5	20	
2	Grading	Grading	11/20/2021	1/21/2022	5	45	
3	Building Construction	Building Construction	1/22/2022	9/29/2023	5	440	

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

4	Paving	Paving	9/30/2023	11/17/2023	5	35
5	Architectural Coating	Architectural Coating	11/18/2023	1/5/2024	5	35

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 4**

**Residential Indoor: 408,240; Residential Outdoor: 136,080; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 10,454 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**



TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	114.00	41.00	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	23.00	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 - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.1966</b>	<b>0.0204</b>	<b>0.2170</b>	<b>0.1010</b>	<b>0.0188</b>	<b>0.1198</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7061</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.2200e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.9000e-004	1.0000e-005	3.9000e-004	0.0000	1.1910	1.1910	4.0000e-005	4.0000e-005	1.2041
<b>Total</b>	<b>6.5000e-004</b>	<b>5.0000e-004</b>	<b>5.2200e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>1.0000e-005</b>	<b>1.4600e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1910</b>	<b>1.1910</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.2041</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0767	0.0000	0.0767	0.0394	0.0000	0.0394	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.0767</b>	<b>0.0204</b>	<b>0.0971</b>	<b>0.0394</b>	<b>0.0188</b>	<b>0.0582</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7060</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.2200e-003	1.0000e-005	1.3300e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1910	1.1910	4.0000e-005	4.0000e-005	1.2041
<b>Total</b>	<b>6.5000e-004</b>	<b>5.0000e-004</b>	<b>5.2200e-003</b>	<b>1.0000e-005</b>	<b>1.3300e-003</b>	<b>1.0000e-005</b>	<b>1.3300e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.1910</b>	<b>1.1910</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.2041</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1619	0.0000	0.1619	0.0574	0.0000	0.0574	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034
<b>Total</b>	<b>0.0629</b>	<b>0.6960</b>	<b>0.4632</b>	<b>9.3000e-004</b>	<b>0.1619</b>	<b>0.0298</b>	<b>0.1917</b>	<b>0.0574</b>	<b>0.0274</b>	<b>0.0848</b>	<b>0.0000</b>	<b>81.7425</b>	<b>81.7425</b>	<b>0.0264</b>	<b>0.0000</b>	<b>82.4034</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**3.3 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0800e-003	8.3000e-004	8.7100e-003	2.0000e-005	2.4200e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.6000e-004	0.0000	1.9850	1.9850	7.0000e-005	7.0000e-005	2.0069
<b>Total</b>	<b>1.0800e-003</b>	<b>8.3000e-004</b>	<b>8.7100e-003</b>	<b>2.0000e-005</b>	<b>2.4200e-003</b>	<b>1.0000e-005</b>	<b>2.4300e-003</b>	<b>6.4000e-004</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>1.9850</b>	<b>1.9850</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.0069</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0632	0.0000	0.0632	0.0224	0.0000	0.0224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033
<b>Total</b>	<b>0.0629</b>	<b>0.6960</b>	<b>0.4632</b>	<b>9.3000e-004</b>	<b>0.0632</b>	<b>0.0298</b>	<b>0.0929</b>	<b>0.0224</b>	<b>0.0274</b>	<b>0.0498</b>	<b>0.0000</b>	<b>81.7424</b>	<b>81.7424</b>	<b>0.0264</b>	<b>0.0000</b>	<b>82.4033</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0800e-003	8.3000e-004	8.7100e-003	2.0000e-005	2.2100e-003	1.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.9850	1.9850	7.0000e-005	7.0000e-005	2.0069
<b>Total</b>	<b>1.0800e-003</b>	<b>8.3000e-004</b>	<b>8.7100e-003</b>	<b>2.0000e-005</b>	<b>2.2100e-003</b>	<b>1.0000e-005</b>	<b>2.2200e-003</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>1.9850</b>	<b>1.9850</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.0069</b>

**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					0.1168	0.0000	0.1168	0.0326	0.0000	0.0326	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0272	0.2913	0.2178	4.7000e-004		0.0123	0.0123		0.0113	0.0113	0.0000	40.9010	40.9010	0.0132	0.0000	41.2317
<b>Total</b>	<b>0.0272</b>	<b>0.2913</b>	<b>0.2178</b>	<b>4.7000e-004</b>	<b>0.1168</b>	<b>0.0123</b>	<b>0.1290</b>	<b>0.0326</b>	<b>0.0113</b>	<b>0.0438</b>	<b>0.0000</b>	<b>40.9010</b>	<b>40.9010</b>	<b>0.0132</b>	<b>0.0000</b>	<b>41.2317</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**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	0.9617	0.9617	3.0000e-005	3.0000e-005	0.9717
<b>Total</b>	<b>5.0000e-004</b>	<b>3.6000e-004</b>	<b>3.9700e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9617</b>	<b>0.9617</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9717</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0455	0.0000	0.0455	0.0127	0.0000	0.0127	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0272	0.2913	0.2178	4.7000e-004		0.0123	0.0123		0.0113	0.0113	0.0000	40.9009	40.9009	0.0132	0.0000	41.2316
<b>Total</b>	<b>0.0272</b>	<b>0.2913</b>	<b>0.2178</b>	<b>4.7000e-004</b>	<b>0.0455</b>	<b>0.0123</b>	<b>0.0578</b>	<b>0.0127</b>	<b>0.0113</b>	<b>0.0240</b>	<b>0.0000</b>	<b>40.9009</b>	<b>40.9009</b>	<b>0.0132</b>	<b>0.0000</b>	<b>41.2316</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**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	1.1100e-003	1.0000e-005	1.1100e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.9617	0.9617	3.0000e-005	3.0000e-005	0.9717
<b>Total</b>	<b>5.0000e-004</b>	<b>3.6000e-004</b>	<b>3.9700e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>3.0000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.9617</b>	<b>0.9617</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9717</b>

**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	0.2090	1.9129	2.0045	3.3000e-003		0.0991	0.0991		0.0932	0.0932	0.0000	283.8634	283.8634	0.0680	0.0000	285.5636
<b>Total</b>	<b>0.2090</b>	<b>1.9129</b>	<b>2.0045</b>	<b>3.3000e-003</b>		<b>0.0991</b>	<b>0.0991</b>		<b>0.0932</b>	<b>0.0932</b>	<b>0.0000</b>	<b>283.8634</b>	<b>283.8634</b>	<b>0.0680</b>	<b>0.0000</b>	<b>285.5636</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1700e-003	0.2166	0.0950	1.0200e-003	0.0336	2.8700e-003	0.0364	9.6900e-003	2.7500e-003	0.0124	0.0000	97.5485	97.5485	4.9000e-004	0.0134	101.5418
Worker	0.0463	0.0339	0.3695	9.8000e-004	0.1127	5.8000e-004	0.1133	0.0299	5.3000e-004	0.0305	0.0000	89.5299	89.5299	3.0500e-003	2.8700e-003	90.4611
<b>Total</b>	<b>0.0555</b>	<b>0.2505</b>	<b>0.4645</b>	<b>2.0000e-003</b>	<b>0.1462</b>	<b>3.4500e-003</b>	<b>0.1497</b>	<b>0.0396</b>	<b>3.2800e-003</b>	<b>0.0429</b>	<b>0.0000</b>	<b>187.0784</b>	<b>187.0784</b>	<b>3.5400e-003</b>	<b>0.0162</b>	<b>192.0029</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2090	1.9129	2.0045	3.3000e-003		0.0991	0.0991		0.0932	0.0932	0.0000	283.8631	283.8631	0.0680	0.0000	285.5632
<b>Total</b>	<b>0.2090</b>	<b>1.9129</b>	<b>2.0045</b>	<b>3.3000e-003</b>		<b>0.0991</b>	<b>0.0991</b>		<b>0.0932</b>	<b>0.0932</b>	<b>0.0000</b>	<b>283.8631</b>	<b>283.8631</b>	<b>0.0680</b>	<b>0.0000</b>	<b>285.5632</b>



TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**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	9.1700e-003	0.2166	0.0950	1.0200e-003	0.0312	2.8700e-003	0.0341	9.1100e-003	2.7500e-003	0.0119	0.0000	97.5485	97.5485	4.9000e-004	0.0134	101.5418
Worker	0.0463	0.0339	0.3695	9.8000e-004	0.1029	5.8000e-004	0.1035	0.0275	5.3000e-004	0.0281	0.0000	89.5299	89.5299	3.0500e-003	2.8700e-003	90.4611
<b>Total</b>	<b>0.0555</b>	<b>0.2505</b>	<b>0.4645</b>	<b>2.0000e-003</b>	<b>0.1341</b>	<b>3.4500e-003</b>	<b>0.1375</b>	<b>0.0366</b>	<b>3.2800e-003</b>	<b>0.0399</b>	<b>0.0000</b>	<b>187.0784</b>	<b>187.0784</b>	<b>3.5400e-003</b>	<b>0.0162</b>	<b>192.0029</b>

**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	0.1533	1.4025	1.5838	2.6300e-003		0.0682	0.0682		0.0642	0.0642	0.0000	226.0096	226.0096	0.0538	0.0000	227.3537
<b>Total</b>	<b>0.1533</b>	<b>1.4025</b>	<b>1.5838</b>	<b>2.6300e-003</b>		<b>0.0682</b>	<b>0.0682</b>		<b>0.0642</b>	<b>0.0642</b>	<b>0.0000</b>	<b>226.0096</b>	<b>226.0096</b>	<b>0.0538</b>	<b>0.0000</b>	<b>227.3537</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**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	5.9100e-003	0.1437	0.0709	7.9000e-004	0.0267	1.3800e-003	0.0281	7.7100e-003	1.3200e-003	9.0400e-003	0.0000	75.3658	75.3658	3.3000e-004	0.0103	78.4358
Worker	0.0340	0.0237	0.2694	7.5000e-004	0.0897	4.3000e-004	0.0901	0.0238	4.0000e-004	0.0242	0.0000	68.9610	68.9610	2.1900e-003	2.1000e-003	69.6423
<b>Total</b>	<b>0.0399</b>	<b>0.1674</b>	<b>0.3402</b>	<b>1.5400e-003</b>	<b>0.1164</b>	<b>1.8100e-003</b>	<b>0.1182</b>	<b>0.0315</b>	<b>1.7200e-003</b>	<b>0.0333</b>	<b>0.0000</b>	<b>144.3268</b>	<b>144.3268</b>	<b>2.5200e-003</b>	<b>0.0124</b>	<b>148.0781</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1533	1.4025	1.5838	2.6300e-003		0.0682	0.0682		0.0642	0.0642	0.0000	226.0094	226.0094	0.0538	0.0000	227.3535
<b>Total</b>	<b>0.1533</b>	<b>1.4025</b>	<b>1.5838</b>	<b>2.6300e-003</b>		<b>0.0682</b>	<b>0.0682</b>		<b>0.0642</b>	<b>0.0642</b>	<b>0.0000</b>	<b>226.0094</b>	<b>226.0094</b>	<b>0.0538</b>	<b>0.0000</b>	<b>227.3535</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**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	5.9100e-003	0.1437	0.0709	7.9000e-004	0.0248	1.3800e-003	0.0262	7.2500e-003	1.3200e-003	8.5700e-003	0.0000	75.3658	75.3658	3.3000e-004	0.0103	78.4358
Worker	0.0340	0.0237	0.2694	7.5000e-004	0.0819	4.3000e-004	0.0823	0.0219	4.0000e-004	0.0223	0.0000	68.9610	68.9610	2.1900e-003	2.1000e-003	69.6423
<b>Total</b>	<b>0.0399</b>	<b>0.1674</b>	<b>0.3402</b>	<b>1.5400e-003</b>	<b>0.1067</b>	<b>1.8100e-003</b>	<b>0.1086</b>	<b>0.0292</b>	<b>1.7200e-003</b>	<b>0.0309</b>	<b>0.0000</b>	<b>144.3268</b>	<b>144.3268</b>	<b>2.5200e-003</b>	<b>0.0124</b>	<b>148.0781</b>

**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	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	5.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0233</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**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	8.0000e-004	5.6000e-004	6.3600e-003	2.0000e-005	2.1200e-003	1.0000e-005	2.1300e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.6286	1.6286	5.0000e-005	5.0000e-005	1.6447
<b>Total</b>	<b>8.0000e-004</b>	<b>5.6000e-004</b>	<b>6.3600e-003</b>	<b>2.0000e-005</b>	<b>2.1200e-003</b>	<b>1.0000e-005</b>	<b>2.1300e-003</b>	<b>5.6000e-004</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>1.6286</b>	<b>1.6286</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>1.6447</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	5.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0233</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**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	8.0000e-004	5.6000e-004	6.3600e-003	2.0000e-005	1.9300e-003	1.0000e-005	1.9400e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.6286	1.6286	5.0000e-005	5.0000e-005	1.6447
<b>Total</b>	<b>8.0000e-004</b>	<b>5.6000e-004</b>	<b>6.3600e-003</b>	<b>2.0000e-005</b>	<b>1.9300e-003</b>	<b>1.0000e-005</b>	<b>1.9400e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.6286</b>	<b>1.6286</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>1.6447</b>

**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	0.5510					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
<b>Total</b>	<b>0.5539</b>	<b>0.0195</b>	<b>0.0272</b>	<b>4.0000e-005</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>3.8356</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**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	1.0600e-003	7.4000e-004	8.3600e-003	2.0000e-005	2.7800e-003	1.0000e-005	2.8000e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.1405	2.1405	7.0000e-005	7.0000e-005	2.1616
<b>Total</b>	<b>1.0600e-003</b>	<b>7.4000e-004</b>	<b>8.3600e-003</b>	<b>2.0000e-005</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>2.8000e-003</b>	<b>7.4000e-004</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>2.1405</b>	<b>2.1405</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.1616</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5510					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
<b>Total</b>	<b>0.5539</b>	<b>0.0195</b>	<b>0.0272</b>	<b>4.0000e-005</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>3.8356</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**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	1.0600e-003	7.4000e-004	8.3600e-003	2.0000e-005	2.5400e-003	1.0000e-005	2.5600e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	2.1405	2.1405	7.0000e-005	7.0000e-005	2.1616
<b>Total</b>	<b>1.0600e-003</b>	<b>7.4000e-004</b>	<b>8.3600e-003</b>	<b>2.0000e-005</b>	<b>2.5400e-003</b>	<b>1.0000e-005</b>	<b>2.5600e-003</b>	<b>6.8000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.1405</b>	<b>2.1405</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.1616</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0918					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	3.0500e-003	4.5300e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6392
<b>Total</b>	<b>0.0923</b>	<b>3.0500e-003</b>	<b>4.5300e-003</b>	<b>1.0000e-005</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6392</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2900e-003	0.0000	4.6000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3449	0.3449	1.0000e-005	1.0000e-005	0.3481
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3449</b>	<b>0.3449</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3481</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0918					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	3.0500e-003	4.5300e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6392
<b>Total</b>	<b>0.0923</b>	<b>3.0500e-003</b>	<b>4.5300e-003</b>	<b>1.0000e-005</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6392</b>



TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2900e-003	0.0000	4.2000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.3449	0.3449	1.0000e-005	1.0000e-005	0.3481
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>4.3000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3449</b>	<b>0.3449</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3481</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5344	0.8487	5.1204	0.0108	1.1195	9.5500e-003	1.1291	0.2989	8.9700e-003	0.3078	0.0000	994.8954	994.8954	0.0585	0.0541	1,012.4833
Unmitigated	0.5344	0.8487	5.1204	0.0108	1.1195	9.5500e-003	1.1291	0.2989	8.9700e-003	0.3078	0.0000	994.8954	994.8954	0.0585	0.0541	1,012.4833

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,057.28	1,068.48	957.60	2,966,903	2,966,903
<b>Total</b>	<b>1,057.28</b>	<b>1,068.48</b>	<b>957.60</b>	<b>2,966,903</b>	<b>2,966,903</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
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
Other Asphalt Surfaces	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423
Single Family Housing	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423

**5.0 Energy Detail**

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

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	158.1997	158.1997	0.0134	1.6200e-003	159.0158
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	158.1997	158.1997	0.0134	1.6200e-003	159.0158
NaturalGas Mitigated	0.0171	0.1460	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.0639	169.0639	3.2400e-003	3.1000e-003	170.0685
NaturalGas Unmitigated	0.0171	0.1460	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.0639	169.0639	3.2400e-003	3.1000e-003	170.0685

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.16814e+006	0.0171	0.1460	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.0639	169.0639	3.2400e-003	3.1000e-003	170.0685
<b>Total</b>		<b>0.0171</b>	<b>0.1460</b>	<b>0.0621</b>	<b>9.3000e-004</b>		<b>0.0118</b>	<b>0.0118</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>169.0639</b>	<b>169.0639</b>	<b>3.2400e-003</b>	<b>3.1000e-003</b>	<b>170.0685</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.16814e+006	0.0171	0.1460	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.0639	169.0639	3.2400e-003	3.1000e-003	170.0685
<b>Total</b>		<b>0.0171</b>	<b>0.1460</b>	<b>0.0621</b>	<b>9.3000e-004</b>		<b>0.0118</b>	<b>0.0118</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>169.0639</b>	<b>169.0639</b>	<b>3.2400e-003</b>	<b>3.1000e-003</b>	<b>170.0685</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	892042	158.1997	0.0134	1.6200e-003	159.0158
<b>Total</b>		<b>158.1997</b>	<b>0.0134</b>	<b>1.6200e-003</b>	<b>159.0158</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	892042	158.1997	0.0134	1.6200e-003	159.0158
<b>Total</b>		<b>158.1997</b>	<b>0.0134</b>	<b>1.6200e-003</b>	<b>159.0158</b>

**6.0 Area Detail**

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TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**6.1 Mitigation Measures Area**

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1450	9.5800e-003	0.8313	4.0000e-005		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	1.3585	1.3585	1.3000e-003	0.0000	1.3911
Unmitigated	8.1726	0.1468	9.5061	0.0158		1.2209	1.2209		1.2209	1.2209	115.6913	49.8777	165.5690	0.1081	9.1000e-003	170.9825

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3214					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0276	0.1372	8.6748	0.0157		1.2163	1.2163		1.2163	1.2163	115.6913	48.5192	164.2105	0.1068	9.1000e-003	169.5914
Landscaping	0.0250	9.5800e-003	0.8313	4.0000e-005		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	1.3585	1.3585	1.3000e-003	0.0000	1.3911
<b>Total</b>	<b>8.1726</b>	<b>0.1468</b>	<b>9.5061</b>	<b>0.0158</b>		<b>1.2209</b>	<b>1.2209</b>		<b>1.2209</b>	<b>1.2209</b>	<b>115.6913</b>	<b>49.8777</b>	<b>165.5690</b>	<b>0.1081</b>	<b>9.1000e-003</b>	<b>170.9825</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3214					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0250	9.5800e-003	0.8313	4.0000e-005		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	1.3585	1.3585	1.3000e-003	0.0000	1.3911
<b>Total</b>	<b>1.1450</b>	<b>9.5800e-003</b>	<b>0.8313</b>	<b>4.0000e-005</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>1.3585</b>	<b>1.3585</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>1.3911</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	28.2303	0.2400	5.8800e-003	35.9817
Unmitigated	28.2303	0.2400	5.8800e-003	35.9817

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.29725 / 4.60044	28.2303	0.2400	5.8800e-003	35.9817
<b>Total</b>		<b>28.2303</b>	<b>0.2400</b>	<b>5.8800e-003</b>	<b>35.9817</b>

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.29725 / 4.60044	28.2303	0.2400	5.8800e-003	35.9817
<b>Total</b>		<b>28.2303</b>	<b>0.2400</b>	<b>5.8800e-003</b>	<b>35.9817</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	26.6324	1.5739	0.0000	65.9807
Unmitigated	26.6324	1.5739	0.0000	65.9807

TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	131.2	26.6324	1.5739	0.0000	65.9807
<b>Total</b>		<b>26.6324</b>	<b>1.5739</b>	<b>0.0000</b>	<b>65.9807</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	131.2	26.6324	1.5739	0.0000	65.9807
<b>Total</b>		<b>26.6324</b>	<b>1.5739</b>	<b>0.0000</b>	<b>65.9807</b>

**9.0 Operational Offroad**

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TTM 20434 Hesperia - Mojave Desert AQMD Air District, Annual

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

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

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**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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**TTM 20434 Hesperia**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 20434 Hesperia****EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	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	9	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

**TTM 20434 Hesperia**

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	3.33000E-003	2.25900E-002	3.16900E-002	5.00000E-005	1.21000E-003	1.21000E-003	0.00000E+000	4.46819E+000	4.46819E+000	2.70000E-004	0.00000E+000	4.47482E+000
Cranes	6.99600E-002	7.74010E-001	3.59330E-001	1.11000E-003	3.22200E-002	2.96400E-002	0.00000E+000	9.75894E+001	9.75894E+001	3.15600E-002	0.00000E+000	9.83785E+001
Excavators	9.91000E-003	9.12600E-002	1.46980E-001	2.30000E-004	4.42000E-003	4.07000E-003	0.00000E+000	2.04171E+001	2.04171E+001	6.60000E-003	0.00000E+000	2.05822E+001
Forklifts	7.17400E-002	6.68380E-001	7.58850E-001	1.01000E-003	4.30300E-002	3.95800E-002	0.00000E+000	8.86323E+001	8.86323E+001	2.86700E-002	0.00000E+000	8.93489E+001
Generator Sets	7.02500E-002	6.23480E-001	8.08070E-001	1.45000E-003	3.05000E-002	3.05000E-002	0.00000E+000	1.24346E+002	1.24346E+002	5.71000E-003	0.00000E+000	1.24488E+002
Graders	9.91000E-003	1.28300E-001	3.94200E-002	1.50000E-004	4.07000E-003	3.74000E-003	0.00000E+000	1.30951E+001	1.30951E+001	4.24000E-003	0.00000E+000	1.32010E+001
Pavers	6.72000E-003	6.59000E-002	1.00910E-001	1.60000E-004	3.10000E-003	2.85000E-003	0.00000E+000	1.44538E+001	1.44538E+001	4.67000E-003	0.00000E+000	1.45707E+001
Paving Equipment	5.98000E-003	5.61000E-002	8.94900E-002	1.40000E-004	2.73000E-003	2.51000E-003	0.00000E+000	1.25249E+001	1.25249E+001	4.05000E-003	0.00000E+000	1.26262E+001
Rollers	5.38000E-003	5.63500E-002	6.48300E-002	9.00000E-005	3.10000E-003	2.85000E-003	0.00000E+000	8.06829E+000	8.06829E+000	2.61000E-003	0.00000E+000	8.13353E+000
Rubber Tired Dozers	5.33600E-002	5.59660E-001	2.08560E-001	4.50000E-004	2.70900E-002	2.49200E-002	0.00000E+000	3.94023E+001	3.94023E+001	1.27400E-002	0.00000E+000	3.97209E+001
Scrapers	4.01700E-002	4.55240E-001	3.05780E-001	6.80000E-004	1.77300E-002	1.63100E-002	0.00000E+000	5.99574E+001	5.99574E+001	1.93900E-002	0.00000E+000	6.04422E+001
Tractors/Loaders/Backhoes	1.07280E-001	1.08970E+000	1.48250E+000	2.06000E-003	5.75600E-002	5.29500E-002	0.00000E+000	1.81104E+002	1.81104E+002	5.85700E-002	0.00000E+000	1.82569E+002
Welders	5.87100E-002	3.17710E-001	3.71340E-001	5.60000E-004	1.32000E-002	1.32000E-002	0.00000E+000	4.14085E+001	4.14085E+001	4.76000E-003	0.00000E+000	4.15276E+001

**TTM 20434 Hesperia**

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	3.33000E-003	2.25900E-002	3.16900E-002	5.00000E-005	1.21000E-003	1.21000E-003	0.00000E+000	4.46819E+000	4.46819E+000	2.70000E-004	0.00000E+000	4.47482E+000
Cranes	6.99600E-002	7.74010E-001	3.59330E-001	1.11000E-003	3.22200E-002	2.96400E-002	0.00000E+000	9.75893E+001	9.75893E+001	3.15600E-002	0.00000E+000	9.83783E+001
Excavators	9.91000E-003	9.12600E-002	1.46980E-001	2.30000E-004	4.42000E-003	4.07000E-003	0.00000E+000	2.04171E+001	2.04171E+001	6.60000E-003	0.00000E+000	2.05822E+001
Forklifts	7.17400E-002	6.68380E-001	7.58850E-001	1.01000E-003	4.30300E-002	3.95800E-002	0.00000E+000	8.86322E+001	8.86322E+001	2.86700E-002	0.00000E+000	8.93488E+001
Generator Sets	7.02500E-002	6.23480E-001	8.08070E-001	1.45000E-003	3.05000E-002	3.05000E-002	0.00000E+000	1.24345E+002	1.24345E+002	5.71000E-003	0.00000E+000	1.24488E+002
Graders	9.91000E-003	1.28300E-001	3.94200E-002	1.50000E-004	4.07000E-003	3.74000E-003	0.00000E+000	1.30951E+001	1.30951E+001	4.24000E-003	0.00000E+000	1.32009E+001
Pavers	6.72000E-003	6.59000E-002	1.00910E-001	1.60000E-004	3.10000E-003	2.85000E-003	0.00000E+000	1.44538E+001	1.44538E+001	4.67000E-003	0.00000E+000	1.45707E+001
Paving Equipment	5.98000E-003	5.61000E-002	8.94900E-002	1.40000E-004	2.73000E-003	2.51000E-003	0.00000E+000	1.25249E+001	1.25249E+001	4.05000E-003	0.00000E+000	1.26262E+001
Rollers	5.38000E-003	5.63500E-002	6.48300E-002	9.00000E-005	3.10000E-003	2.85000E-003	0.00000E+000	8.06828E+000	8.06828E+000	2.61000E-003	0.00000E+000	8.13352E+000
Rubber Tired Dozers	5.33600E-002	5.59660E-001	2.08560E-001	4.50000E-004	2.70900E-002	2.49200E-002	0.00000E+000	3.94023E+001	3.94023E+001	1.27400E-002	0.00000E+000	3.97209E+001
Scrapers	4.01700E-002	4.55240E-001	3.05780E-001	6.80000E-004	1.77300E-002	1.63100E-002	0.00000E+000	5.99574E+001	5.99574E+001	1.93900E-002	0.00000E+000	6.04422E+001
Tractors/Loaders/Balckhoes	1.07280E-001	1.08970E+000	1.48250E+000	2.06000E-003	5.75600E-002	5.29500E-002	0.00000E+000	1.81104E+002	1.81104E+002	5.85700E-002	0.00000E+000	1.82569E+002
Welders	5.87100E-002	3.17710E-001	3.71340E-001	5.60000E-004	1.32000E-002	1.32000E-002	0.00000E+000	4.14085E+001	4.14085E+001	4.76000E-003	0.00000E+000	4.15275E+001



**TTM 20434 Hesperia**

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
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	1.22964E-006	1.22964E-006	0.00000E+000	0.00000E+000	1.21978E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.46936E-006	1.46936E-006	0.00000E+000	0.00000E+000	9.71715E-007
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12826E-006	1.12826E-006	0.00000E+000	0.00000E+000	1.11921E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20631E-006	1.20631E-006	0.00000E+000	0.00000E+000	1.12460E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.52729E-006	1.52729E-006	0.00000E+000	0.00000E+000	1.51504E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.38372E-006	1.38372E-006	0.00000E+000	0.00000E+000	6.86310E-007
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.59682E-006	1.59682E-006	0.00000E+000	0.00000E+000	1.58401E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23942E-006	1.23942E-006	0.00000E+000	0.00000E+000	1.22948E-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	1.26896E-006	1.26896E-006	0.00000E+000	0.00000E+000	1.25878E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16750E-006	1.16750E-006	0.00000E+000	0.00000E+000	1.15813E-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	1.21477E-006	1.21477E-006	0.00000E+000	0.00000E+000	1.20503E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20748E-006	1.20748E-006	0.00000E+000	0.00000E+000	1.20402E-006

**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
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**TTM 20434 Hesperia**

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

No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
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)	25.00		
Yes	Clean Paved Road	% PM Reduction	10.00				

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	0.09	0.08
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.26	0.07	0.24	0.07	0.08	0.08
Grading	Fugitive Dust	0.28	0.09	0.11	0.04	0.61	0.61
Grading	Roads	0.00	0.00	0.00	0.00	0.09	0.07
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	0.09	0.07
Site Preparation	Fugitive Dust	0.20	0.10	0.08	0.04	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.08	0.10

**Operational Percent Reduction Summary**

**TTM 20434 Hesperia**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.00	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	100.00	100.00	100.00	100.00	100.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	0.10	0.31		
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			

**TTM 20434 Hesperia**

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

**TTM 20434 Hesperia**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

**Energy Mitigation Measures**

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

**TTM 20434 Hesperia**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

**TTM 20434 Hesperia**

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

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