

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

Hesperia 003- Primaco Shopping Center
Mojave Desert Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	73.45	1000sqft	1.69	73,448.00	0
Gasoline/Service Station	16.00	Pump	0.05	2,258.80	0
Convenience Market with Gas Pumps	5.60	1000sqft	0.13	5,600.00	0
Fast Food Restaurant with Drive Thru	3.40	1000sqft	0.08	3,400.00	0
Parking Lot	360.00	Space	3.24	144,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - construction characteristics

Grading - 10.1 acre site

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	230.00	300.00

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tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	PhaseEndDate	9/20/2024	10/25/2024
tblConstructionPhase	PhaseEndDate	7/26/2024	11/1/2024
tblConstructionPhase	PhaseEndDate	7/28/2023	6/30/2023
tblConstructionPhase	PhaseEndDate	9/8/2023	9/1/2023
tblConstructionPhase	PhaseEndDate	8/23/2024	9/27/2024
tblConstructionPhase	PhaseEndDate	8/11/2023	8/18/2023
tblGrading	AcresOfGrading	15.00	10.00
tblGrading	AcresOfGrading	22.50	10.00

2.0 Emissions Summary

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.4909	45.5261	33.9665	0.0702	25.7734	2.0423	27.8157	13.4655	1.8789	15.3444	0.0000	6,810.1274	6,810.1274	2.1288	0.1249	6,865.3238
2024	49.1389	25.7209	36.4904	0.0687	1.2449	1.1594	2.4043	0.3359	1.0846	1.4205	0.0000	6,685.1002	6,685.1002	1.3608	0.1273	6,757.0677
Maximum	49.1389	45.5261	36.4904	0.0702	25.7734	2.0423	27.8157	13.4655	1.8789	15.3444	0.0000	6,810.1274	6,810.1274	2.1288	0.1273	6,865.3238

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.4909	45.5261	33.9665	0.0702	25.7734	2.0423	27.8157	13.4655	1.8789	15.3444	0.0000	6,810.1274	6,810.1274	2.1288	0.1249	6,865.3238
2024	49.1389	25.7209	36.4904	0.0687	1.2449	1.1594	2.4043	0.3359	1.0846	1.4205	0.0000	6,685.1002	6,685.1002	1.3608	0.1273	6,757.0677
Maximum	49.1389	45.5261	36.4904	0.0702	25.7734	2.0423	27.8157	13.4655	1.8789	15.3444	0.0000	6,810.1274	6,810.1274	2.1288	0.1273	6,865.3238

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4333	4.2000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1003	0.1003	2.6000e-004		0.1069
Energy	0.0347	0.3153	0.2649	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.3970	378.3970	7.2500e-003	6.9400e-003	380.6456
Mobile	32.0032	25.6381	159.6592	0.2653	24.1922	0.2445	24.4366	6.4524	0.2292	6.6816		27,032.5136	27,032.5136	2.2391	1.8110	27,628.1648
Total	34.4712	25.9538	159.9708	0.2672	24.1922	0.2686	24.4608	6.4524	0.2533	6.7057		27,411.0109	27,411.0109	2.2466	1.8179	28,008.9172

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	2.4333	4.2000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1003	0.1003	2.6000e-004		0.1069
Energy	0.0347	0.3153	0.2649	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.3970	378.3970	7.2500e-003	6.9400e-003	380.6456
Mobile	32.0032	25.6381	159.6592	0.2653	24.1922	0.2445	24.4366	6.4524	0.2292	6.6816		27,032.5136	27,032.5136	2.2391	1.8110	27,628.1648
Total	34.4712	25.9538	159.9708	0.2672	24.1922	0.2686	24.4608	6.4524	0.2533	6.7057		27,411.0109	27,411.0109	2.2466	1.8179	28,008.9172

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2023	6/30/2023	5	0	
2	Site Preparation	Site Preparation	7/29/2023	8/18/2023	5	15	
3	Grading	Grading	8/12/2023	9/1/2023	5	15	
4	Building Construction	Building Construction	9/9/2023	11/1/2024	5	300	
5	Paving	Paving	7/27/2024	9/27/2024	5	45	
6	Architectural Coating	Architectural Coating	8/24/2024	10/25/2024	5	45	

Acres of Grading (Site Preparation Phase): 10

Acres of Grading (Grading Phase): 10

Acres of Paving: 3.24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 127,060; Non-Residential Outdoor: 42,353; Striped Parking Area: 8,640 (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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38

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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
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	88.00	37.00	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	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.7733	0.0000	18.7733	10.0070	0.0000	10.0070			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	18.7733	1.2660	20.0393	10.0070	1.1647	11.1718		3,687.3081	3,687.3081	1.1926		3,717.1219

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0658	0.0360	0.5299	1.3500e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		136.4336	136.4336	3.8800e-003	3.6200e-003	137.6094
Total	0.0658	0.0360	0.5299	1.3500e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		136.4336	136.4336	3.8800e-003	3.6200e-003	137.6094

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.7733	0.0000	18.7733	10.0070	0.0000	10.0070			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	18.7733	1.2660	20.0393	10.0070	1.1647	11.1718	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0658	0.0360	0.5299	1.3500e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		136.4336	136.4336	3.8800e-003	3.6200e-003	137.6094
Total	0.0658	0.0360	0.5299	1.3500e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		136.4336	136.4336	3.8800e-003	3.6200e-003	137.6094

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3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7291	0.0000	6.7291	3.3866	0.0000	3.3866			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	6.7291	0.7749	7.5040	3.3866	0.7129	4.0995		2,872.6910	2,872.6910	0.9291		2,895.9182

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0300	0.4416	1.1200e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		113.6947	113.6947	3.2400e-003	3.0200e-003	114.6745
Total	0.0548	0.0300	0.4416	1.1200e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		113.6947	113.6947	3.2400e-003	3.0200e-003	114.6745

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3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7291	0.0000	6.7291	3.3866	0.0000	3.3866			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	6.7291	0.7749	7.5040	3.3866	0.7129	4.0995	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0300	0.4416	1.1200e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		113.6947	113.6947	3.2400e-003	3.0200e-003	114.6745
Total	0.0548	0.0300	0.4416	1.1200e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		113.6947	113.6947	3.2400e-003	3.0200e-003	114.6745

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3.5 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0539	1.3331	0.6321	7.3100e-003	0.2510	0.0120	0.2629	0.0723	0.0115	0.0837		769.0088	769.0088	3.3100e-003	0.1072	801.0493
Worker	0.3215	0.1762	2.5907	6.6000e-003	0.7229	3.5900e-003	0.7265	0.1918	3.3000e-003	0.1951		667.0089	667.0089	0.0190	0.0177	672.7568
Total	0.3754	1.5092	3.2227	0.0139	0.9739	0.0156	0.9894	0.2640	0.0148	0.2788		1,436.0177	1,436.0177	0.0223	0.1249	1,473.8061

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3.5 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0539	1.3331	0.6321	7.3100e-003	0.2510	0.0120	0.2629	0.0723	0.0115	0.0837		769.0088	769.0088	3.3100e-003	0.1072	801.0493
Worker	0.3215	0.1762	2.5907	6.6000e-003	0.7229	3.5900e-003	0.7265	0.1918	3.3000e-003	0.1951		667.0089	667.0089	0.0190	0.0177	672.7568
Total	0.3754	1.5092	3.2227	0.0139	0.9739	0.0156	0.9894	0.2640	0.0148	0.2788		1,436.0177	1,436.0177	0.0223	0.1249	1,473.8061

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.3192	0.6122	7.1600e-003	0.2510	0.0120	0.2630	0.0723	0.0115	0.0838		753.0686	753.0686	3.1700e-003	0.1048	784.3835
Worker	0.2973	0.1561	2.3822	6.3800e-003	0.7229	3.3800e-003	0.7263	0.1918	3.1100e-003	0.1949		645.3364	645.3364	0.0171	0.0164	650.6443
Total	0.3496	1.4752	2.9944	0.0135	0.9739	0.0154	0.9892	0.2640	0.0146	0.2786		1,398.4050	1,398.4050	0.0202	0.1212	1,435.0278

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.3192	0.6122	7.1600e-003	0.2510	0.0120	0.2630	0.0723	0.0115	0.0838		753.0686	753.0686	3.1700e-003	0.1048	784.3835
Worker	0.2973	0.1561	2.3822	6.3800e-003	0.7229	3.3800e-003	0.7263	0.1918	3.1100e-003	0.1949		645.3364	645.3364	0.0171	0.0164	650.6443
Total	0.3496	1.4752	2.9944	0.0135	0.9739	0.0154	0.9892	0.2640	0.0146	0.2786		1,398.4050	1,398.4050	0.0202	0.1212	1,435.0278

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.1886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1768	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0507	0.0266	0.4061	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		110.0005	110.0005	2.9100e-003	2.7900e-003	110.9053
Total	0.0507	0.0266	0.4061	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		110.0005	110.0005	2.9100e-003	2.7900e-003	110.9053

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

3.6 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.1886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1768	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0507	0.0266	0.4061	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		110.0005	110.0005	2.9100e-003	2.7900e-003	110.9053
Total	0.0507	0.0266	0.4061	1.0900e-003	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		110.0005	110.0005	2.9100e-003	2.7900e-003	110.9053

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

3.7 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	45.8487					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
Total	46.0294	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0608	0.0319	0.4873	1.3100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		132.0006	132.0006	3.4900e-003	3.3500e-003	133.0863
Total	0.0608	0.0319	0.4873	1.3100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		132.0006	132.0006	3.4900e-003	3.3500e-003	133.0863

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

3.7 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	45.8487					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
Total	46.0294	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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0608	0.0319	0.4873	1.3100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		132.0006	132.0006	3.4900e-003	3.3500e-003	133.0863
Total	0.0608	0.0319	0.4873	1.3100e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		132.0006	132.0006	3.4900e-003	3.3500e-003	133.0863

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, 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	32.0032	25.6381	159.6592	0.2653	24.1922	0.2445	24.4366	6.4524	0.2292	6.6816		27,032.51 36	27,032.51 36	2.2391	1.8110	27,628.16 48
Unmitigated	32.0032	25.6381	159.6592	0.2653	24.1922	0.2445	24.4366	6.4524	0.2292	6.6816		27,032.51 36	27,032.51 36	2.2391	1.8110	27,628.16 48

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	3,495.52	3,495.52	3495.52	1,875,012	1,875,012
Fast Food Restaurant with Drive Thru	1,601.23	2,094.81	1606.77	1,562,689	1,562,689
Gasoline/Service Station	2,752.16	2,914.72	2670.08	1,592,332	1,592,332
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	2,772.66	3,387.42	1549.75	4,708,997	4,708,997
Total	10,621.57	11,892.47	9,322.12	9,739,030	9,739,030

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
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.531780	0.056022	0.172399	0.135630	0.029743	0.007796	0.007114	0.023242	0.000520	0.000194	0.028649	0.001160	0.005752
Fast Food Restaurant with Drive Thru	0.531780	0.056022	0.172399	0.135630	0.029743	0.007796	0.007114	0.023242	0.000520	0.000194	0.028649	0.001160	0.005752
Gasoline/Service Station	0.531780	0.056022	0.172399	0.135630	0.029743	0.007796	0.007114	0.023242	0.000520	0.000194	0.028649	0.001160	0.005752
Parking Lot	0.531780	0.056022	0.172399	0.135630	0.029743	0.007796	0.007114	0.023242	0.000520	0.000194	0.028649	0.001160	0.005752
Regional Shopping Center	0.531780	0.056022	0.172399	0.135630	0.029743	0.007796	0.007114	0.023242	0.000520	0.000194	0.028649	0.001160	0.005752

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0347	0.3153	0.2649	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.3970	378.3970	7.2500e-003	6.9400e-003	380.6456
NaturalGas Unmitigated	0.0347	0.3153	0.2649	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.3970	378.3970	7.2500e-003	6.9400e-003	380.6456

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					
Convenience Market with Gas Pumps	33.7534	3.6000e-004	3.3100e-003	2.7800e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9710	3.9710	8.0000e-005	7.0000e-005	3.9946
Fast Food Restaurant with Drive Thru	2539.85	0.0274	0.2490	0.2092	1.4900e-003		0.0189	0.0189		0.0189	0.0189		298.8055	298.8055	5.7300e-003	5.4800e-003	300.5811
Gasoline/Service Station	200.074	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5381	23.5381	4.5000e-004	4.3000e-004	23.6780
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	442.7	4.7700e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.0824	52.0824	1.0000e-003	9.5000e-004	52.3919
Total		0.0347	0.3153	0.2649	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.3970	378.3970	7.2600e-003	6.9300e-003	380.6456

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, 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 - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	0.0337534	3.6000e-004	3.3100e-003	2.7800e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9710	3.9710	8.0000e-005	7.0000e-005	3.9946
Fast Food Restaurant with Drive Thru	2.53985	0.0274	0.2490	0.2092	1.4900e-003		0.0189	0.0189		0.0189	0.0189		298.8055	298.8055	5.7300e-003	5.4800e-003	300.5811
Gasoline/Service Station	0.200074	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5381	23.5381	4.5000e-004	4.3000e-004	23.6780
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.4427	4.7700e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.0824	52.0824	1.0000e-003	9.5000e-004	52.3919
Total		0.0347	0.3153	0.2649	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.3970	378.3970	7.2600e-003	6.9300e-003	380.6456

6.0 Area Detail

6.1 Mitigation Measures Area

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4333	4.2000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1003	0.1003	2.6000e-004		0.1069
Unmitigated	2.4333	4.2000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1003	0.1003	2.6000e-004		0.1069

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5653					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8637					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3100e-003	4.2000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1003	0.1003	2.6000e-004		0.1069
Total	2.4333	4.2000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1003	0.1003	2.6000e-004		0.1069

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5653					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8637					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3100e-003	4.2000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1003	0.1003	2.6000e-004		0.1069
Total	2.4333	4.2000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1003	0.1003	2.6000e-004		0.1069

7.0 Water Detail

7.1 Mitigation Measures Water

Hesperia 003- Primaco Shopping Center - Mojave Desert Air Basin, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
