

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**Civic Center**

**San Bernardino-Mojave Desert County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	14.05	1000sqft	0.32	14,050.00	0
Other Asphalt Surfaces	136.10	1000sqft	3.12	136,100.00	0
Other Non-Asphalt Surfaces	657.50	1000sqft	15.09	657,500.00	0
Health Club	17.30	1000sqft	0.40	17,300.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	531.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

- Project Characteristics - .
- Land Use - .
- Construction Phase -
- Trips and VMT -
- Grading - Per Engineer
- Vehicle Trips - Per Project Trip Generation

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	0.00	47,616.00

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tblArchitecturalCoating	EF_Parking	0.00	250.00
tblAreaCoating	Area_Parking	0	47616
tblGrading	MaterialExported	0.00	7,500.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.033
tblProjectCharacteristics	CO2IntensityFactor	0	531.98
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	PrecipitationFrequency	0	32
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblProjectCharacteristics	WindSpeed	0	2.6
tblVehicleTrips	CC_TL	6.60	7.30
tblVehicleTrips	CC_TL	6.60	7.30
tblVehicleTrips	CNW_TL	6.60	7.30
tblVehicleTrips	CNW_TL	6.60	7.30
tblVehicleTrips	CW_TL	14.70	9.50
tblVehicleTrips	CW_TL	14.70	9.50
tblVehicleTrips	HO_TL	0.00	7.30
tblVehicleTrips	HO_TL	0.00	7.30
tblVehicleTrips	HS_TL	0.00	7.30
tblVehicleTrips	HS_TL	0.00	7.30
tblVehicleTrips	HW_TL	0.00	9.50
tblVehicleTrips	HW_TL	0.00	9.50
tblVehicleTrips	ST_TR	0.00	11.30
tblVehicleTrips	ST_TR	20.87	28.90
tblVehicleTrips	SU_TR	0.00	11.30
tblVehicleTrips	SU_TR	26.73	28.90
tblVehicleTrips	WD_TR	33.98	11.30
tblVehicleTrips	WD_TR	32.93	28.90

**2.0 Emissions Summary**

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.8269	43.3806	31.6352	0.0879	19.8869	1.6810	21.5007	10.1634	1.5482	11.6481	0.0000	8,866.5896	8,866.5896	2.0355	0.4879	9,031.5426
2023	64.3895	20.2014	30.2198	0.0858	5.2342	0.7554	5.9896	1.4069	0.7109	2.1178	0.0000	8,645.7359	8,645.7359	0.7622	0.4636	8,802.9475
2024	64.3591	1.3876	4.0330	9.8800e-003	0.8813	0.0650	0.9464	0.2337	0.0647	0.2984	0.0000	979.6153	979.6153	0.0321	0.0175	985.6445
<b>Maximum</b>	<b>64.3895</b>	<b>43.3806</b>	<b>31.6352</b>	<b>0.0879</b>	<b>19.8869</b>	<b>1.6810</b>	<b>21.5007</b>	<b>10.1634</b>	<b>1.5482</b>	<b>11.6481</b>	<b>0.0000</b>	<b>8,866.5896</b>	<b>8,866.5896</b>	<b>2.0355</b>	<b>0.4879</b>	<b>9,031.5426</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.8269	43.3806	31.6352	0.0879	19.8869	1.6810	21.5007	10.1634	1.5482	11.6481	0.0000	8,866.5896	8,866.5896	2.0355	0.4879	9,031.5426
2023	64.3895	20.2014	30.2198	0.0858	5.2342	0.7554	5.9896	1.4069	0.7109	2.1178	0.0000	8,645.7359	8,645.7359	0.7622	0.4636	8,802.9474
2024	64.3591	1.3876	4.0330	9.8800e-003	0.8813	0.0650	0.9464	0.2337	0.0647	0.2984	0.0000	979.6153	979.6153	0.0321	0.0175	985.6445
<b>Maximum</b>	<b>64.3895</b>	<b>43.3806</b>	<b>31.6352</b>	<b>0.0879</b>	<b>19.8869</b>	<b>1.6810</b>	<b>21.5007</b>	<b>10.1634</b>	<b>1.5482</b>	<b>11.6481</b>	<b>0.0000</b>	<b>8,866.5896</b>	<b>8,866.5896</b>	<b>2.0355</b>	<b>0.4879</b>	<b>9,031.5426</b>



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**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	1.3100	7.6000e-004	0.0841	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		0.1805	0.1805	4.7000e-004		0.1923
Energy	0.0180	0.1632	0.1371	9.8000e-004		0.0124	0.0124		0.0124	0.0124		195.8100	195.8100	3.7500e-003	3.5900e-003	196.9736
Mobile	1.4576	1.8259	11.5669	0.0233	2.4648	0.0198	2.4846	0.6574	0.0185	0.6759		2,381.0064	2,381.0064	0.1725	0.1379	2,426.4201
<b>Total</b>	<b>2.7855</b>	<b>1.9898</b>	<b>11.7881</b>	<b>0.0243</b>	<b>2.4648</b>	<b>0.0325</b>	<b>2.4973</b>	<b>0.6574</b>	<b>0.0312</b>	<b>0.6886</b>		<b>2,576.9970</b>	<b>2,576.9970</b>	<b>0.1767</b>	<b>0.1415</b>	<b>2,623.5860</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	1.3100	7.6000e-004	0.0841	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		0.1805	0.1805	4.7000e-004		0.1923
Energy	0.0180	0.1632	0.1371	9.8000e-004		0.0124	0.0124		0.0124	0.0124		195.8100	195.8100	3.7500e-003	3.5900e-003	196.9736
Mobile	1.4576	1.8259	11.5669	0.0233	2.4648	0.0198	2.4846	0.6574	0.0185	0.6759		2,381.0064	2,381.0064	0.1725	0.1379	2,426.4201
<b>Total</b>	<b>2.7855</b>	<b>1.9898</b>	<b>11.7881</b>	<b>0.0243</b>	<b>2.4648</b>	<b>0.0325</b>	<b>2.4973</b>	<b>0.6574</b>	<b>0.0312</b>	<b>0.6886</b>		<b>2,576.9970</b>	<b>2,576.9970</b>	<b>0.1767</b>	<b>0.1415</b>	<b>2,623.5860</b>

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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	Site Preparation	Site Preparation	8/1/2022	8/12/2022	5	10	
2	Grading	Grading	8/13/2022	9/23/2022	5	30	
3	Building Construction	Building Construction	9/24/2022	11/17/2023	5	300	
4	Paving	Paving	11/18/2023	12/15/2023	5	20	
5	Architectural Coating	Architectural Coating	12/16/2023	1/12/2024	5	20	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 18.21**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 47,025; Non-Residential Outdoor: 15,675; Striped Parking Area: 47,616 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

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

**Trips and VMT**

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	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	345.00	135.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	69.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	0.0799	0.0566	0.6814	1.9200e-003	0.2299	1.1900e-003	0.2311	0.0610	1.1000e-003	0.0621		193.7862	193.7862	5.2300e-003	5.3800e-003	195.5200
<b>Total</b>	<b>0.0799</b>	<b>0.0566</b>	<b>0.6814</b>	<b>1.9200e-003</b>	<b>0.2299</b>	<b>1.1900e-003</b>	<b>0.2311</b>	<b>0.0610</b>	<b>1.1000e-003</b>	<b>0.0621</b>		<b>193.7862</b>	<b>193.7862</b>	<b>5.2300e-003</b>	<b>5.3800e-003</b>	<b>195.5200</b>

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**3.2 Site Preparation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	0.0799	0.0566	0.6814	1.9200e-003	0.2299	1.1900e-003	0.2311	0.0610	1.1000e-003	0.0621		193.7862	193.7862	5.2300e-003	5.3800e-003	195.5200
<b>Total</b>	<b>0.0799</b>	<b>0.0566</b>	<b>0.6814</b>	<b>1.9200e-003</b>	<b>0.2299</b>	<b>1.1900e-003</b>	<b>0.2311</b>	<b>0.0610</b>	<b>1.1000e-003</b>	<b>0.0621</b>		<b>193.7862</b>	<b>193.7862</b>	<b>5.2300e-003</b>	<b>5.3800e-003</b>	<b>195.5200</b>

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

**3.3 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					9.2387	0.0000	9.2387	3.6591	0.0000	3.6591			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>9.2387</b>	<b>1.6349</b>	<b>10.8736</b>	<b>3.6591</b>	<b>1.5041</b>	<b>5.1632</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	0.1134	4.4743	1.1370	0.0184	0.5476	0.0448	0.5924	0.1501	0.0429	0.1930		2,004.0160	2,004.0160	0.0855	0.3176	2,100.7902
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	0.0888	0.0629	0.7571	2.1300e-003	0.2555	1.3200e-003	0.2568	0.0678	1.2200e-003	0.0690		215.3179	215.3179	5.8100e-003	5.9800e-003	217.2445
<b>Total</b>	<b>0.2021</b>	<b>4.5372</b>	<b>1.8941</b>	<b>0.0205</b>	<b>0.8030</b>	<b>0.0462</b>	<b>0.8492</b>	<b>0.2179</b>	<b>0.0441</b>	<b>0.2620</b>		<b>2,219.3339</b>	<b>2,219.3339</b>	<b>0.0913</b>	<b>0.3236</b>	<b>2,318.0347</b>

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**3.3 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2387	0.0000	9.2387	3.6591	0.0000	3.6591			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>9.2387</b>	<b>1.6349</b>	<b>10.8736</b>	<b>3.6591</b>	<b>1.5041</b>	<b>5.1632</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	0.1134	4.4743	1.1370	0.0184	0.5476	0.0448	0.5924	0.1501	0.0429	0.1930		2,004.0160	2,004.0160	0.0855	0.3176	2,100.7902
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	0.0888	0.0629	0.7571	2.1300e-003	0.2555	1.3200e-003	0.2568	0.0678	1.2200e-003	0.0690		215.3179	215.3179	5.8100e-003	5.9800e-003	217.2445
<b>Total</b>	<b>0.2021</b>	<b>4.5372</b>	<b>1.8941</b>	<b>0.0205</b>	<b>0.8030</b>	<b>0.0462</b>	<b>0.8492</b>	<b>0.2179</b>	<b>0.0441</b>	<b>0.2620</b>		<b>2,219.3339</b>	<b>2,219.3339</b>	<b>0.0913</b>	<b>0.3236</b>	<b>2,318.0347</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**3.4 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	0.2204	6.0168	2.2122	0.0242	0.8275	0.0676	0.8950	0.2383	0.0646	0.3029		2,598.0215	2,598.0215	0.0697	0.3848	2,714.4430
Worker	1.5309	1.0850	13.0596	0.0368	4.4067	0.0229	4.4296	1.1686	0.0210	1.1897		3,714.2345	3,714.2345	0.1002	0.1031	3,747.4674
<b>Total</b>	<b>1.7513</b>	<b>7.1018</b>	<b>15.2718</b>	<b>0.0610</b>	<b>5.2342</b>	<b>0.0904</b>	<b>5.3246</b>	<b>1.4069</b>	<b>0.0857</b>	<b>1.4926</b>		<b>6,312.2561</b>	<b>6,312.2561</b>	<b>0.1699</b>	<b>0.4879</b>	<b>6,461.9104</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**3.4 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	0.2204	6.0168	2.2122	0.0242	0.8275	0.0676	0.8950	0.2383	0.0646	0.3029		2,598.0215	2,598.0215	0.0697	0.3848	2,714.4430
Worker	1.5309	1.0850	13.0596	0.0368	4.4067	0.0229	4.4296	1.1686	0.0210	1.1897		3,714.2345	3,714.2345	0.1002	0.1031	3,747.4674
<b>Total</b>	<b>1.7513</b>	<b>7.1018</b>	<b>15.2718</b>	<b>0.0610</b>	<b>5.2342</b>	<b>0.0904</b>	<b>5.3246</b>	<b>1.4069</b>	<b>0.0857</b>	<b>1.4926</b>		<b>6,312.2561</b>	<b>6,312.2561</b>	<b>0.1699</b>	<b>0.4879</b>	<b>6,461.9104</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**3.4 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	0.1447	4.8640	2.0253	0.0233	0.8275	0.0342	0.8617	0.2383	0.0327	0.2710		2,495.5846	2,495.5846	0.0646	0.3689	2,607.1316
Worker	1.4174	0.9525	11.9505	0.0356	4.4067	0.0215	4.4282	1.1686	0.0198	1.1884		3,594.9414	3,594.9414	0.0898	0.0947	3,625.4098
<b>Total</b>	<b>1.5621</b>	<b>5.8165</b>	<b>13.9758</b>	<b>0.0588</b>	<b>5.2342</b>	<b>0.0557</b>	<b>5.2899</b>	<b>1.4069</b>	<b>0.0525</b>	<b>1.4594</b>		<b>6,090.5260</b>	<b>6,090.5260</b>	<b>0.1544</b>	<b>0.4636</b>	<b>6,232.5414</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**3.4 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	0.1447	4.8640	2.0253	0.0233	0.8275	0.0342	0.8617	0.2383	0.0327	0.2710		2,495.5846	2,495.5846	0.0646	0.3689	2,607.1316
Worker	1.4174	0.9525	11.9505	0.0356	4.4067	0.0215	4.4282	1.1686	0.0198	1.1884		3,594.9414	3,594.9414	0.0898	0.0947	3,625.4098
<b>Total</b>	<b>1.5621</b>	<b>5.8165</b>	<b>13.9758</b>	<b>0.0588</b>	<b>5.2342</b>	<b>0.0557</b>	<b>5.2899</b>	<b>1.4069</b>	<b>0.0525</b>	<b>1.4594</b>		<b>6,090.5260</b>	<b>6,090.5260</b>	<b>0.1544</b>	<b>0.4636</b>	<b>6,232.5414</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**3.5 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	0.4087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4415</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	0.0616	0.0414	0.5196	1.5500e-003	0.1916	9.3000e-004	0.1925	0.0508	8.6000e-004	0.0517		156.3018	156.3018	3.9000e-003	4.1200e-003	157.6265
<b>Total</b>	<b>0.0616</b>	<b>0.0414</b>	<b>0.5196</b>	<b>1.5500e-003</b>	<b>0.1916</b>	<b>9.3000e-004</b>	<b>0.1925</b>	<b>0.0508</b>	<b>8.6000e-004</b>	<b>0.0517</b>		<b>156.3018</b>	<b>156.3018</b>	<b>3.9000e-003</b>	<b>4.1200e-003</b>	<b>157.6265</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**3.5 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.4087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4415</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>2,207.584 1</b>	<b>2,207.584 1</b>	<b>0.7140</b>		<b>2,225.433 6</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	0.0616	0.0414	0.5196	1.5500e-003	0.1916	9.3000e-004	0.1925	0.0508	8.6000e-004	0.0517		156.3018	156.3018	3.9000e-003	4.1200e-003	157.6265
<b>Total</b>	<b>0.0616</b>	<b>0.0414</b>	<b>0.5196</b>	<b>1.5500e-003</b>	<b>0.1916</b>	<b>9.3000e-004</b>	<b>0.1925</b>	<b>0.0508</b>	<b>8.6000e-004</b>	<b>0.0517</b>		<b>156.3018</b>	<b>156.3018</b>	<b>3.9000e-003</b>	<b>4.1200e-003</b>	<b>157.6265</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**3.6 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	63.9143					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>64.1060</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	0.2835	0.1905	2.3901	7.1100e-003	0.8813	4.2900e-003	0.8856	0.2337	3.9500e-003	0.2377		718.9883	718.9883	0.0180	0.0189	725.0820
<b>Total</b>	<b>0.2835</b>	<b>0.1905</b>	<b>2.3901</b>	<b>7.1100e-003</b>	<b>0.8813</b>	<b>4.2900e-003</b>	<b>0.8856</b>	<b>0.2337</b>	<b>3.9500e-003</b>	<b>0.2377</b>		<b>718.9883</b>	<b>718.9883</b>	<b>0.0180</b>	<b>0.0189</b>	<b>725.0820</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**3.6 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	63.9143					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>64.1060</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	0.2835	0.1905	2.3901	7.1100e-003	0.8813	4.2900e-003	0.8856	0.2337	3.9500e-003	0.2377		718.9883	718.9883	0.0180	0.0189	725.0820
<b>Total</b>	<b>0.2835</b>	<b>0.1905</b>	<b>2.3901</b>	<b>7.1100e-003</b>	<b>0.8813</b>	<b>4.2900e-003</b>	<b>0.8856</b>	<b>0.2337</b>	<b>3.9500e-003</b>	<b>0.2377</b>		<b>718.9883</b>	<b>718.9883</b>	<b>0.0180</b>	<b>0.0189</b>	<b>725.0820</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**3.6 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	63.9143					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>64.0951</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	0.2640	0.1688	2.2229	6.9100e-003	0.8813	4.1200e-003	0.8855	0.2337	3.7900e-003	0.2375		698.1673	698.1673	0.0163	0.0175	703.8002
<b>Total</b>	<b>0.2640</b>	<b>0.1688</b>	<b>2.2229</b>	<b>6.9100e-003</b>	<b>0.8813</b>	<b>4.1200e-003</b>	<b>0.8855</b>	<b>0.2337</b>	<b>3.7900e-003</b>	<b>0.2375</b>		<b>698.1673</b>	<b>698.1673</b>	<b>0.0163</b>	<b>0.0175</b>	<b>703.8002</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**3.6 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	63.9143					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>64.0951</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	0.2640	0.1688	2.2229	6.9100e-003	0.8813	4.1200e-003	0.8855	0.2337	3.7900e-003	0.2375		698.1673	698.1673	0.0163	0.0175	703.8002
<b>Total</b>	<b>0.2640</b>	<b>0.1688</b>	<b>2.2229</b>	<b>6.9100e-003</b>	<b>0.8813</b>	<b>4.1200e-003</b>	<b>0.8855</b>	<b>0.2337</b>	<b>3.7900e-003</b>	<b>0.2375</b>		<b>698.1673</b>	<b>698.1673</b>	<b>0.0163</b>	<b>0.0175</b>	<b>703.8002</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4576	1.8259	11.5669	0.0233	2.4648	0.0198	2.4846	0.6574	0.0185	0.6759		2,381,006 4	2,381,006 4	0.1725	0.1379	2,426,420 1
Unmitigated	1.4576	1.8259	11.5669	0.0233	2.4648	0.0198	2.4846	0.6574	0.0185	0.6759		2,381,006 4	2,381,006 4	0.1725	0.1379	2,426,420 1

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	158.77	158.77	158.77	303,501	303,501
Health Club	499.97	499.97	499.97	863,781	863,781
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>658.74</b>	<b>658.74</b>	<b>658.74</b>	<b>1,167,282</b>	<b>1,167,282</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
Government (Civic Center)	9.50	7.30	7.30	75.00	20.00	5.00	50	34	16
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Civic Center - San Bernardino-Mojave Desert County, Winter

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

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Health Club	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Other Asphalt Surfaces	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Other Non-Asphalt Surfaces	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0180	0.1632	0.1371	9.8000e-004		0.0124	0.0124		0.0124	0.0124		195.8100	195.8100	3.7500e-003	3.5900e-003	196.9736
NaturalGas Unmitigated	0.0180	0.1632	0.1371	9.8000e-004		0.0124	0.0124		0.0124	0.0124		195.8100	195.8100	3.7500e-003	3.5900e-003	196.9736

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

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					
Government (Civic Center)	132.032	1.4200e-003	0.0129	0.0109	8.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		15.5331	15.5331	3.0000e-004	2.8000e-004	15.6254
Health Club	1532.35	0.0165	0.1502	0.1262	9.0000e-004		0.0114	0.0114		0.0114	0.0114		180.2769	180.2769	3.4600e-003	3.3100e-003	181.3482
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0180</b>	<b>0.1632</b>	<b>0.1371</b>	<b>9.8000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0124</b>	<b>0.0124</b>		<b>195.8100</b>	<b>195.8100</b>	<b>3.7600e-003</b>	<b>3.5900e-003</b>	<b>196.9736</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Government (Civic Center)	0.132032	1.4200e-003	0.0129	0.0109	8.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		15.5331	15.5331	3.0000e-004	2.8000e-004	15.6254
Health Club	1.53235	0.0165	0.1502	0.1262	9.0000e-004		0.0114	0.0114		0.0114	0.0114		180.2769	180.2769	3.4600e-003	3.3100e-003	181.3482
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0180</b>	<b>0.1632</b>	<b>0.1371</b>	<b>9.8000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0124</b>	<b>0.0124</b>		<b>195.8100</b>	<b>195.8100</b>	<b>3.7600e-003</b>	<b>3.5900e-003</b>	<b>196.9736</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Civic Center - San Bernardino-Mojave Desert County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3100	7.6000e-004	0.0841	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		0.1805	0.1805	4.7000e-004		0.1923
Unmitigated	1.3100	7.6000e-004	0.0841	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		0.1805	0.1805	4.7000e-004		0.1923

**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	0.3502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9520					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.7600e-003	7.6000e-004	0.0841	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		0.1805	0.1805	4.7000e-004		0.1923
<b>Total</b>	<b>1.3100</b>	<b>7.6000e-004</b>	<b>0.0841</b>	<b>1.0000e-005</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>0.1805</b>	<b>0.1805</b>	<b>4.7000e-004</b>		<b>0.1923</b>

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9520					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.7600e-003	7.6000e-004	0.0841	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		0.1805	0.1805	4.7000e-004		0.1923
<b>Total</b>	<b>1.3100</b>	<b>7.6000e-004</b>	<b>0.0841</b>	<b>1.0000e-005</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>0.1805</b>	<b>0.1805</b>	<b>4.7000e-004</b>		<b>0.1923</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Civic Center - San Bernardino-Mojave Desert County, Winter

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

**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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