

## **ATTACHMENT 4**

Air Quality Modeling Worksheets

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8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Summer

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

**8837 Magnolia Avenue - Existing Conditions**

**San Diego Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Automobile Care Center	2.10	1000sqft	1.26	2,100.00	0
User Defined Commercial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2023
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<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 - Existing conditions include an approx. 2,100 sf RV sales facility.

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR EXISTING CONDITIONS SCENARIO.

Vehicle Trips - Trip rates provided by Transportation Consultant.

Energy Use - Historical Title 24 Standards applied to Existing Conditions scenario.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	12/7/2023	2/21/2023
tblConstructionPhase	PhaseEndDate	2/22/2023	2/8/2023

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Summer

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

tblConstructionPhase	PhaseStartDate	3/3/2023	2/8/2023
tblLandUse	LotAcreage	0.05	1.26
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PR_TP	21.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	0.00	11.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	0.00	11.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	0.00	11.00

**2.0 Emissions Summary**

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8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Summer

**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	0.0583	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004
Energy	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682
Mobile	0.0320	0.0323	0.2811	6.1000e-004	0.0615	4.6000e-004	0.0620	0.0164	4.3000e-004	0.0168		61.6841	61.6841	4.1900e-003	2.6400e-003	62.5770
<b>Total</b>	<b>0.0910</b>	<b>0.0393</b>	<b>0.2873</b>	<b>6.5000e-004</b>	<b>0.0615</b>	<b>9.9000e-004</b>	<b>0.0625</b>	<b>0.0164</b>	<b>9.6000e-004</b>	<b>0.0174</b>		<b>70.0036</b>	<b>70.0036</b>	<b>4.3500e-003</b>	<b>2.7900e-003</b>	<b>70.9460</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	0.0583	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004
Energy	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682
Mobile	0.0320	0.0323	0.2811	6.1000e-004	0.0615	4.6000e-004	0.0620	0.0164	4.3000e-004	0.0168		61.6841	61.6841	4.1900e-003	2.6400e-003	62.5770
<b>Total</b>	<b>0.0910</b>	<b>0.0393</b>	<b>0.2873</b>	<b>6.5000e-004</b>	<b>0.0615</b>	<b>9.9000e-004</b>	<b>0.0625</b>	<b>0.0164</b>	<b>9.6000e-004</b>	<b>0.0174</b>		<b>70.0036</b>	<b>70.0036</b>	<b>4.3500e-003</b>	<b>2.7900e-003</b>	<b>70.9460</b>

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**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	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	IGNORE Demolition	Demolition	1/26/2023	2/8/2023	5	10	
2	IGNORE Building Construction	Building Construction	2/8/2023	2/21/2023	5	10	

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

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
IGNORE Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
IGNORE Building Construction	Cranes	1	6.00	231	0.29
IGNORE Building Construction	Forklifts	1	6.00	89	0.20
IGNORE Building Construction	Generator Sets	1	8.00	84	0.74
IGNORE Demolition	Rubber Tired Dozers	1	8.00	247	0.40
IGNORE Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
IGNORE Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
IGNORE Building Construction	Welders	3	8.00	46	0.45

**Trips and VMT**

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Summer

**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
IGNORE Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
IGNORE Building Construction	7	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 IGNORE Demolition - 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	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>		<b>0.6766</b>	<b>0.6766</b>		<b>0.6328</b>	<b>0.6328</b>		<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>



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

**3.2 IGNORE Demolition - 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	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	0.0355	0.0221	0.3120	9.4000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		95.3763	95.3763	2.5800e-003	2.3800e-003	96.1495
<b>Total</b>	<b>0.0355</b>	<b>0.0221</b>	<b>0.3120</b>	<b>9.4000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>95.3763</b>	<b>95.3763</b>	<b>2.5800e-003</b>	<b>2.3800e-003</b>	<b>96.1495</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	lb/day										lb/day					
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>		<b>0.6766</b>	<b>0.6766</b>		<b>0.6328</b>	<b>0.6328</b>	<b>0.0000</b>	<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>

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

**3.2 IGNORE Demolition - 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	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	0.0355	0.0221	0.3120	9.4000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		95.3763	95.3763	2.5800e-003	2.3800e-003	96.1495
<b>Total</b>	<b>0.0355</b>	<b>0.0221</b>	<b>0.3120</b>	<b>9.4000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>95.3763</b>	<b>95.3763</b>	<b>2.5800e-003</b>	<b>2.3800e-003</b>	<b>96.1495</b>

**3.3 IGNORE 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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
<b>Total</b>	<b>1.5233</b>	<b>11.7104</b>	<b>12.6111</b>	<b>0.0221</b>		<b>0.5145</b>	<b>0.5145</b>		<b>0.4968</b>	<b>0.4968</b>		<b>2,001.7877</b>	<b>2,001.7877</b>	<b>0.3399</b>		<b>2,010.2858</b>

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Summer

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

**3.3 IGNORE 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	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	2.7300e-003	1.7000e-003	0.0240	7.0000e-005	8.2100e-003	4.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		7.3366	7.3366	2.0000e-004	1.8000e-004	7.3961
<b>Total</b>	<b>2.7300e-003</b>	<b>1.7000e-003</b>	<b>0.0240</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>4.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>7.3366</b>	<b>7.3366</b>	<b>2.0000e-004</b>	<b>1.8000e-004</b>	<b>7.3961</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	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
<b>Total</b>	<b>1.5233</b>	<b>11.7104</b>	<b>12.6111</b>	<b>0.0221</b>		<b>0.5145</b>	<b>0.5145</b>		<b>0.4968</b>	<b>0.4968</b>	<b>0.0000</b>	<b>2,001.7877</b>	<b>2,001.7877</b>	<b>0.3399</b>		<b>2,010.2858</b>

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Summer

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

**3.3 IGNORE 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	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	2.7300e-003	1.7000e-003	0.0240	7.0000e-005	8.2100e-003	4.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		7.3366	7.3366	2.0000e-004	1.8000e-004	7.3961
<b>Total</b>	<b>2.7300e-003</b>	<b>1.7000e-003</b>	<b>0.0240</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>4.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>7.3366</b>	<b>7.3366</b>	<b>2.0000e-004</b>	<b>1.8000e-004</b>	<b>7.3961</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

8837 Magnolia Avenue - Existing Conditions - San Diego 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	0.0320	0.0323	0.2811	6.1000e-004	0.0615	4.6000e-004	0.0620	0.0164	4.3000e-004	0.0168		61.6841	61.6841	4.1900e-003	2.6400e-003	62.5770
Unmitigated	0.0320	0.0323	0.2811	6.1000e-004	0.0615	4.6000e-004	0.0620	0.0164	4.3000e-004	0.0168		61.6841	61.6841	4.1900e-003	2.6400e-003	62.5770

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
User Defined Commercial	11.00	11.00	11.00	29,229	29,229
<b>Total</b>	<b>11.00</b>	<b>11.00</b>	<b>11.00</b>	<b>29,229</b>	<b>29,229</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
Automobile Care Center	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
User Defined Commercial	0.00	7.30	0.00	0.00	100.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164
User Defined Commercial	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164

**5.0 Energy Detail**

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Summer

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

Historical Energy Use: Y

**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	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682
NaturalGas Unmitigated	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682

**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					
Automobile Care Center	70.7096	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682
User Defined Commercial	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>7.6000e-004</b>	<b>6.9300e-003</b>	<b>5.8200e-003</b>	<b>4.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>8.3188</b>	<b>8.3188</b>	<b>1.6000e-004</b>	<b>1.5000e-004</b>	<b>8.3682</b>

8837 Magnolia Avenue - Existing Conditions - San Diego 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 - 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					
Automobile Care Center	0.0707096	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682
User Defined Commercial	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>7.6000e-004</b>	<b>6.9300e-003</b>	<b>5.8200e-003</b>	<b>4.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>8.3188</b>	<b>8.3188</b>	<b>1.6000e-004</b>	<b>1.5000e-004</b>	<b>8.3682</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0583	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004
Unmitigated	0.0583	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004

8837 Magnolia Avenue - Existing Conditions - San Diego 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**

**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	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004
<b>Total</b>	<b>0.0583</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>	<b>0.0000</b>		<b>7.2000e-004</b>



8837 Magnolia Avenue - Existing Conditions - San Diego 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	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004
<b>Total</b>	<b>0.0583</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>	<b>0.0000</b>		<b>7.2000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

8837 Magnolia Avenue - Existing Conditions - San Diego 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**

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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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8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Winter

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

**8837 Magnolia Avenue - Existing Conditions**

San Diego Air Basin, Winter

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Automobile Care Center	2.10	1000sqft	1.26	2,100.00	0
User Defined Commercial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2023
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<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 - Existing conditions include an approx. 2,100 sf RV sales facility.

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR EXISTING CONDITIONS SCENARIO.

Vehicle Trips - Trip rates provided by Transportation Consultant.

Energy Use - Historical Title 24 Standards applied to Existing Conditions scenario.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	12/7/2023	2/21/2023
tblConstructionPhase	PhaseEndDate	2/22/2023	2/8/2023

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Winter

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

tblConstructionPhase	PhaseStartDate	3/3/2023	2/8/2023
tblLandUse	LotAcreage	0.05	1.26
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PR_TP	21.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	0.00	11.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	0.00	11.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	0.00	11.00

**2.0 Emissions Summary**

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8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, 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	0.0583	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004
Energy	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682
Mobile	0.0312	0.0351	0.2884	5.8000e-004	0.0615	4.6000e-004	0.0620	0.0164	4.3000e-004	0.0168		59.0038	59.0038	4.4500e-003	2.7900e-003	59.9465
<b>Total</b>	<b>0.0903</b>	<b>0.0420</b>	<b>0.2946</b>	<b>6.2000e-004</b>	<b>0.0615</b>	<b>9.9000e-004</b>	<b>0.0625</b>	<b>0.0164</b>	<b>9.6000e-004</b>	<b>0.0174</b>		<b>67.3232</b>	<b>67.3232</b>	<b>4.6100e-003</b>	<b>2.9400e-003</b>	<b>68.3155</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	0.0583	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004
Energy	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682
Mobile	0.0312	0.0351	0.2884	5.8000e-004	0.0615	4.6000e-004	0.0620	0.0164	4.3000e-004	0.0168		59.0038	59.0038	4.4500e-003	2.7900e-003	59.9465
<b>Total</b>	<b>0.0903</b>	<b>0.0420</b>	<b>0.2946</b>	<b>6.2000e-004</b>	<b>0.0615</b>	<b>9.9000e-004</b>	<b>0.0625</b>	<b>0.0164</b>	<b>9.6000e-004</b>	<b>0.0174</b>		<b>67.3232</b>	<b>67.3232</b>	<b>4.6100e-003</b>	<b>2.9400e-003</b>	<b>68.3155</b>

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, 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	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	IGNORE Demolition	Demolition	1/26/2023	2/8/2023	5	10	
2	IGNORE Building Construction	Building Construction	2/8/2023	2/21/2023	5	10	

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

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
IGNORE Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
IGNORE Building Construction	Cranes	1	6.00	231	0.29
IGNORE Building Construction	Forklifts	1	6.00	89	0.20
IGNORE Building Construction	Generator Sets	1	8.00	84	0.74
IGNORE Demolition	Rubber Tired Dozers	1	8.00	247	0.40
IGNORE Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
IGNORE Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
IGNORE Building Construction	Welders	3	8.00	46	0.45

**Trips and VMT**

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Winter

**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
IGNORE Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
IGNORE Building Construction	7	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 IGNORE Demolition - 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	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>		<b>0.6766</b>	<b>0.6766</b>		<b>0.6328</b>	<b>0.6328</b>		<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>



8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Winter

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

**3.2 IGNORE Demolition - 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	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	0.0385	0.0248	0.2965	8.9000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		90.1341	90.1341	2.7500e-003	2.5700e-003	90.9692
<b>Total</b>	<b>0.0385</b>	<b>0.0248</b>	<b>0.2965</b>	<b>8.9000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>90.1341</b>	<b>90.1341</b>	<b>2.7500e-003</b>	<b>2.5700e-003</b>	<b>90.9692</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	lb/day										lb/day					
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>		<b>0.6766</b>	<b>0.6766</b>		<b>0.6328</b>	<b>0.6328</b>	<b>0.0000</b>	<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Winter

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

**3.2 IGNORE Demolition - 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	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	0.0385	0.0248	0.2965	8.9000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		90.1341	90.1341	2.7500e-003	2.5700e-003	90.9692
<b>Total</b>	<b>0.0385</b>	<b>0.0248</b>	<b>0.2965</b>	<b>8.9000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>90.1341</b>	<b>90.1341</b>	<b>2.7500e-003</b>	<b>2.5700e-003</b>	<b>90.9692</b>

**3.3 IGNORE 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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
<b>Total</b>	<b>1.5233</b>	<b>11.7104</b>	<b>12.6111</b>	<b>0.0221</b>		<b>0.5145</b>	<b>0.5145</b>		<b>0.4968</b>	<b>0.4968</b>		<b>2,001.7877</b>	<b>2,001.7877</b>	<b>0.3399</b>		<b>2,010.2858</b>

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Winter

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

**3.3 IGNORE 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	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	2.9600e-003	1.9100e-003	0.0228	7.0000e-005	8.2100e-003	4.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		6.9334	6.9334	2.1000e-004	2.0000e-004	6.9976
<b>Total</b>	<b>2.9600e-003</b>	<b>1.9100e-003</b>	<b>0.0228</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>4.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>6.9334</b>	<b>6.9334</b>	<b>2.1000e-004</b>	<b>2.0000e-004</b>	<b>6.9976</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	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
<b>Total</b>	<b>1.5233</b>	<b>11.7104</b>	<b>12.6111</b>	<b>0.0221</b>		<b>0.5145</b>	<b>0.5145</b>		<b>0.4968</b>	<b>0.4968</b>	<b>0.0000</b>	<b>2,001.7877</b>	<b>2,001.7877</b>	<b>0.3399</b>		<b>2,010.2858</b>

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Winter

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

**3.3 IGNORE 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	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	2.9600e-003	1.9100e-003	0.0228	7.0000e-005	8.2100e-003	4.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		6.9334	6.9334	2.1000e-004	2.0000e-004	6.9976
<b>Total</b>	<b>2.9600e-003</b>	<b>1.9100e-003</b>	<b>0.0228</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>4.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>6.9334</b>	<b>6.9334</b>	<b>2.1000e-004</b>	<b>2.0000e-004</b>	<b>6.9976</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, 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	0.0312	0.0351	0.2884	5.8000e-004	0.0615	4.6000e-004	0.0620	0.0164	4.3000e-004	0.0168		59.0038	59.0038	4.4500e-003	2.7900e-003	59.9465
Unmitigated	0.0312	0.0351	0.2884	5.8000e-004	0.0615	4.6000e-004	0.0620	0.0164	4.3000e-004	0.0168		59.0038	59.0038	4.4500e-003	2.7900e-003	59.9465

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
User Defined Commercial	11.00	11.00	11.00	29,229	29,229
<b>Total</b>	<b>11.00</b>	<b>11.00</b>	<b>11.00</b>	<b>29,229</b>	<b>29,229</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
Automobile Care Center	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
User Defined Commercial	0.00	7.30	0.00	0.00	100.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164
User Defined Commercial	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164

**5.0 Energy Detail**

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, Winter

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

Historical Energy Use: Y

**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	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682
NaturalGas Unmitigated	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682

**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					
Automobile Care Center	70.7096	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682
User Defined Commercial	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>7.6000e-004</b>	<b>6.9300e-003</b>	<b>5.8200e-003</b>	<b>4.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>8.3188</b>	<b>8.3188</b>	<b>1.6000e-004</b>	<b>1.5000e-004</b>	<b>8.3682</b>

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, 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					
Automobile Care Center	0.0707096	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3188	8.3188	1.6000e-004	1.5000e-004	8.3682
User Defined Commercial	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>7.6000e-004</b>	<b>6.9300e-003</b>	<b>5.8200e-003</b>	<b>4.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>8.3188</b>	<b>8.3188</b>	<b>1.6000e-004</b>	<b>1.5000e-004</b>	<b>8.3682</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0583	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004
Unmitigated	0.0583	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, 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	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004
<b>Total</b>	<b>0.0583</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>	<b>0.0000</b>		<b>7.2000e-004</b>



8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, 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	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.8000e-004	6.8000e-004	0.0000		7.2000e-004
<b>Total</b>	<b>0.0583</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>	<b>0.0000</b>		<b>7.2000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

8837 Magnolia Avenue - Existing Conditions - San Diego Air Basin, 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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Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

**Super Star Car Wash Project - 8837 Magnolia  
San Diego Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1.00	User Defined Unit	0.00	0.00	0
Automobile Care Center	6.00	1000sqft	1.26	6,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2024
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<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 - Assumes approximate 6,000 sf as conservative estimate to account for 4,880 sf car wash building and 31 vacuum stations.

Construction Phase - Assumes approximate 6-month construction timeline.

Off-road Equipment - Equipment use on worst-case day.

Off-road Equipment - Equipment use on worst-case day.

Off-road Equipment - Equipment use on worst-case day.

Off-road Equipment -

Trips and VMT - Assumes same worker trip rates for building and architectural coatings phase.

Demolition - Demo existing approx. 2,100 sf dealership RV

Vehicle Trips - Trip rates provided by Traffic Consultant. Assumes 40% pass-by reduction.

Water And Wastewater - Annual water consumption 30 gallons per vehicle x 468 trip/day x 365 days/year.

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

Construction Off-road Equipment Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	200.00	66.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	10.00	21.00
tblLandUse	LotAcreage	0.14	1.26
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	2.00	18.00
tblTripsAndVMT	WorkerTripNumber	0.00	13.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	0.00	48.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	0.00	33.00
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PB_TP	0.00	40.00
tblVehicleTrips	PR_TP	21.00	0.00
tblVehicleTrips	PR_TP	0.00	60.00
tblVehicleTrips	ST_TR	23.72	0.00

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

tblVehicleTrips	ST_TR	0.00	468.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	0.00	468.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	0.00	468.00
tblWater	OutdoorWaterUseRate	345,975.69	5,124,600.00

**2.0 Emissions Summary**

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Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

**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	0.1666	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003
Energy	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112
Mobile	1.0971	0.9495	8.2840	0.0168	1.7413	0.0131	1.7544	0.4638	0.0122	0.4761		1,711.1560	1,711.1560	0.1310	0.0806	1,738.4359
Stationary	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
<b>Total</b>	<b>2.0862</b>	<b>4.6374</b>	<b>10.3925</b>	<b>0.0209</b>	<b>1.7413</b>	<b>0.1352</b>	<b>1.8765</b>	<b>0.4638</b>	<b>0.1343</b>	<b>0.5982</b>		<b>2,153.1934</b>	<b>2,153.1934</b>	<b>0.1903</b>	<b>0.0810</b>	<b>2,182.0771</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

**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	lb/day										lb/day					
Area	0.1570	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003
Energy	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112
Mobile	1.0971	0.9495	8.2840	0.0168	1.7413	0.0131	1.7544	0.4638	0.0122	0.4761		1,711.1560	1,711.1560	0.1310	0.0806	1,738.4359
Stationary	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
<b>Total</b>	<b>2.0766</b>	<b>4.6374</b>	<b>10.3925</b>	<b>0.0209</b>	<b>1.7413</b>	<b>0.1352</b>	<b>1.8765</b>	<b>0.4638</b>	<b>0.1343</b>	<b>0.5982</b>		<b>2,153.1934</b>	<b>2,153.1934</b>	<b>0.1903</b>	<b>0.0810</b>	<b>2,182.0771</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>0.46</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>	<b>0.00</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>	<b>0.00</b>	<b>0.00</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	Demolition/Site Clearing	Demolition	7/3/2023	8/1/2023	5	22	
2	Building Construction	Building Construction	8/1/2023	10/31/2023	5	66	
3	Architectural Coating	Architectural Coating	11/1/2023	11/30/2023	5	22	
4	Paving	Paving	12/1/2023	12/31/2023	5	21	



Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,000; Non-Residential Outdoor: 3,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition/Site Clearing	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition/Site Clearing	Rubber Tired Dozers	2	8.00	247	0.40
Demolition/Site Clearing	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Architectural Coating	Air Compressors	3	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**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/Site Clearing	7	18.00	0.00	10.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

Building Construction	7	18.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition/Site Clearing - 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					0.0951	0.0000	0.0951	0.0144	0.0000	0.0144			0.0000			0.0000
Off-Road	2.4909	24.0298	20.2214	0.0389		1.1258	1.1258		1.0563	1.0563		3,744.0623	3,744.0623	0.8860		3,766.2109
<b>Total</b>	<b>2.4909</b>	<b>24.0298</b>	<b>20.2214</b>	<b>0.0389</b>	<b>0.0951</b>	<b>1.1258</b>	<b>1.2210</b>	<b>0.0144</b>	<b>1.0563</b>	<b>1.0707</b>		<b>3,744.0623</b>	<b>3,744.0623</b>	<b>0.8860</b>		<b>3,766.2109</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

**3.2 Demolition/Site Clearing - 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	lb/day										lb/day					
Hauling	1.0300e-003	0.0595	0.0163	2.7000e-004	7.9500e-003	5.0000e-004	8.4500e-003	2.1800e-003	4.8000e-004	2.6600e-003		30.0581	30.0581	1.5100e-003	4.7800e-003	31.5204
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	0.0492	0.0306	0.4320	1.3100e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		132.0595	132.0595	3.5800e-003	3.2900e-003	133.1300
<b>Total</b>	<b>0.0502</b>	<b>0.0900</b>	<b>0.4483</b>	<b>1.5800e-003</b>	<b>0.1558</b>	<b>1.2900e-003</b>	<b>0.1571</b>	<b>0.0414</b>	<b>1.2100e-003</b>	<b>0.0426</b>		<b>162.1176</b>	<b>162.1176</b>	<b>5.0900e-003</b>	<b>8.0700e-003</b>	<b>164.6504</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	lb/day										lb/day					
Fugitive Dust					0.0428	0.0000	0.0428	6.4800e-003	0.0000	6.4800e-003			0.0000			0.0000
Off-Road	2.4909	24.0298	20.2214	0.0389		1.1258	1.1258		1.0563	1.0563	0.0000	3,744.0623	3,744.0623	0.8860		3,766.2109
<b>Total</b>	<b>2.4909</b>	<b>24.0298</b>	<b>20.2214</b>	<b>0.0389</b>	<b>0.0428</b>	<b>1.1258</b>	<b>1.1686</b>	<b>6.4800e-003</b>	<b>1.0563</b>	<b>1.0628</b>	<b>0.0000</b>	<b>3,744.0623</b>	<b>3,744.0623</b>	<b>0.8860</b>		<b>3,766.2109</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

**3.2 Demolition/Site Clearing - 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	lb/day										lb/day					
Hauling	1.0300e-003	0.0595	0.0163	2.7000e-004	7.9500e-003	5.0000e-004	8.4500e-003	2.1800e-003	4.8000e-004	2.6600e-003		30.0581	30.0581	1.5100e-003	4.7800e-003	31.5204
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	0.0492	0.0306	0.4320	1.3100e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		132.0595	132.0595	3.5800e-003	3.2900e-003	133.1300
<b>Total</b>	<b>0.0502</b>	<b>0.0900</b>	<b>0.4483</b>	<b>1.5800e-003</b>	<b>0.1558</b>	<b>1.2900e-003</b>	<b>0.1571</b>	<b>0.0414</b>	<b>1.2100e-003</b>	<b>0.0426</b>		<b>162.1176</b>	<b>162.1176</b>	<b>5.0900e-003</b>	<b>8.0700e-003</b>	<b>164.6504</b>

**3.3 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	1.3185	9.2169	11.5436	0.0184		0.4093	0.4093		0.4012	0.4012		1,633.1896	1,633.1896	0.2096		1,638.4300
<b>Total</b>	<b>1.3185</b>	<b>9.2169</b>	<b>11.5436</b>	<b>0.0184</b>		<b>0.4093</b>	<b>0.4093</b>		<b>0.4012</b>	<b>0.4012</b>		<b>1,633.1896</b>	<b>1,633.1896</b>	<b>0.2096</b>		<b>1,638.4300</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

**3.3 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	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	1.1900e-003	0.0429	0.0155	2.0000e-004	6.7700e-003	2.6000e-004	7.0300e-003	1.9500e-003	2.5000e-004	2.2000e-003		22.1047	22.1047	6.7000e-004	3.2000e-003	23.0752
Worker	0.0492	0.0306	0.4320	1.3100e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		132.0595	132.0595	3.5800e-003	3.2900e-003	133.1300
<b>Total</b>	<b>0.0504</b>	<b>0.0734</b>	<b>0.4474</b>	<b>1.5100e-003</b>	<b>0.1546</b>	<b>1.0500e-003</b>	<b>0.1557</b>	<b>0.0412</b>	<b>9.8000e-004</b>	<b>0.0422</b>		<b>154.1642</b>	<b>154.1642</b>	<b>4.2500e-003</b>	<b>6.4900e-003</b>	<b>156.2053</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	lb/day										lb/day					
Off-Road	1.3185	9.2169	11.5436	0.0184		0.4093	0.4093		0.4012	0.4012	0.0000	1,633.1896	1,633.1896	0.2096		1,638.4300
<b>Total</b>	<b>1.3185</b>	<b>9.2169</b>	<b>11.5436</b>	<b>0.0184</b>		<b>0.4093</b>	<b>0.4093</b>		<b>0.4012</b>	<b>0.4012</b>	<b>0.0000</b>	<b>1,633.1896</b>	<b>1,633.1896</b>	<b>0.2096</b>		<b>1,638.4300</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

**3.3 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	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	1.1900e-003	0.0429	0.0155	2.0000e-004	6.7700e-003	2.6000e-004	7.0300e-003	1.9500e-003	2.5000e-004	2.2000e-003		22.1047	22.1047	6.7000e-004	3.2000e-003	23.0752
Worker	0.0492	0.0306	0.4320	1.3100e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		132.0595	132.0595	3.5800e-003	3.2900e-003	133.1300
<b>Total</b>	<b>0.0504</b>	<b>0.0734</b>	<b>0.4474</b>	<b>1.5100e-003</b>	<b>0.1546</b>	<b>1.0500e-003</b>	<b>0.1557</b>	<b>0.0412</b>	<b>9.8000e-004</b>	<b>0.0422</b>		<b>154.1642</b>	<b>154.1642</b>	<b>4.2500e-003</b>	<b>6.4900e-003</b>	<b>156.2053</b>

**3.4 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	6.3205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6442	4.9755	7.6174	0.0123		0.2309	0.2309		0.2294	0.2294		1,169.5838	1,169.5838	0.1557		1,173.4765
<b>Total</b>	<b>6.9647</b>	<b>4.9755</b>	<b>7.6174</b>	<b>0.0123</b>		<b>0.2309</b>	<b>0.2309</b>		<b>0.2294</b>	<b>0.2294</b>		<b>1,169.5838</b>	<b>1,169.5838</b>	<b>0.1557</b>		<b>1,173.4765</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

**3.4 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	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	0.0355	0.0221	0.3120	9.4000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		95.3763	95.3763	2.5800e-003	2.3800e-003	96.1495
<b>Total</b>	<b>0.0355</b>	<b>0.0221</b>	<b>0.3120</b>	<b>9.4000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>95.3763</b>	<b>95.3763</b>	<b>2.5800e-003</b>	<b>2.3800e-003</b>	<b>96.1495</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	lb/day										lb/day					
Archit. Coating	6.3205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6442	4.9755	7.6174	0.0123		0.2309	0.2309		0.2294	0.2294	0.0000	1,169.5838	1,169.5838	0.1557		1,173.4765
<b>Total</b>	<b>6.9647</b>	<b>4.9755</b>	<b>7.6174</b>	<b>0.0123</b>		<b>0.2309</b>	<b>0.2309</b>		<b>0.2294</b>	<b>0.2294</b>	<b>0.0000</b>	<b>1,169.5838</b>	<b>1,169.5838</b>	<b>0.1557</b>		<b>1,173.4765</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

**3.4 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	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	0.0355	0.0221	0.3120	9.4000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		95.3763	95.3763	2.5800e-003	2.3800e-003	96.1495
<b>Total</b>	<b>0.0355</b>	<b>0.0221</b>	<b>0.3120</b>	<b>9.4000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>95.3763</b>	<b>95.3763</b>	<b>2.5800e-003</b>	<b>2.3800e-003</b>	<b>96.1495</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	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6446</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>		<b>1,297.6880</b>	<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>



Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, 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 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	0.0355	0.0221	0.3120	9.4000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		95.3763	95.3763	2.5800e-003	2.3800e-003	96.1495
<b>Total</b>	<b>0.0355</b>	<b>0.0221</b>	<b>0.3120</b>	<b>9.4000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>95.3763</b>	<b>95.3763</b>	<b>2.5800e-003</b>	<b>2.3800e-003</b>	<b>96.1495</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	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6446</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>	<b>0.0000</b>	<b>1,297.6880</b>	<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, 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 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	0.0355	0.0221	0.3120	9.4000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		95.3763	95.3763	2.5800e-003	2.3800e-003	96.1495
<b>Total</b>	<b>0.0355</b>	<b>0.0221</b>	<b>0.3120</b>	<b>9.4000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>95.3763</b>	<b>95.3763</b>	<b>2.5800e-003</b>	<b>2.3800e-003</b>	<b>96.1495</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Super Star Car Wash Project - 8837 Magnolia - San Diego 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	1.0971	0.9495	8.2840	0.0168	1.7413	0.0131	1.7544	0.4638	0.0122	0.4761		1,711.1560	1,711.1560	0.1310	0.0806	1,738.4359
Unmitigated	1.0971	0.9495	8.2840	0.0168	1.7413	0.0131	1.7544	0.4638	0.0122	0.4761		1,711.1560	1,711.1560	0.1310	0.0806	1,738.4359

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
User Defined Commercial	468.00	468.00	468.00	827,161	827,161
<b>Total</b>	<b>468.00</b>	<b>468.00</b>	<b>468.00</b>	<b>827,161</b>	<b>827,161</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
Automobile Care Center	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
User Defined Commercial	9.50	7.30	7.30	33.00	48.00	19.00	60	0	40

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
User Defined Commercial	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949

**5.0 Energy Detail**

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

**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	lb/day										lb/day					
NaturalGas Mitigated	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112
NaturalGas Unmitigated	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112

**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					
Automobile Care Center	189.37	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112
User Defined Commercial	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>2.0400e-003</b>	<b>0.0186</b>	<b>0.0156</b>	<b>1.1000e-004</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>22.2788</b>	<b>22.2788</b>	<b>4.3000e-004</b>	<b>4.1000e-004</b>	<b>22.4112</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego 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 - 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					
Automobile Care Center	0.18937	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112
User Defined Commercial	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>2.0400e-003</b>	<b>0.0186</b>	<b>0.0156</b>	<b>1.1000e-004</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>22.2788</b>	<b>22.2788</b>	<b>4.3000e-004</b>	<b>4.1000e-004</b>	<b>22.4112</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Use Low VOC Cleaning Supplies

Super Star Car Wash Project - 8837 Magnolia - San Diego 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	0.1570	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003
Unmitigated	0.1666	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.0000e-005	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003
<b>Total</b>	<b>0.1666</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>		<b>1.6300e-003</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego 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	0.0381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1188					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.0000e-005	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003
<b>Total</b>	<b>0.1570</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>		<b>1.6300e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Summer

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

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	12	1000	0.73	Diesel

**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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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
<b>Total</b>	<b>0.8205</b>	<b>3.6694</b>	<b>2.0922</b>	<b>3.9400e-003</b>		<b>0.1207</b>	<b>0.1207</b>		<b>0.1207</b>	<b>0.1207</b>		<b>419.7571</b>	<b>419.7571</b>	<b>0.0589</b>		<b>421.2283</b>

**11.0 Vegetation**



Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

**Super Star Car Wash Project - 8837 Magnolia**

**San Diego Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1.00	User Defined Unit	0.00	0.00	0
Automobile Care Center	6.00	1000sqft	1.26	6,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2024
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<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 - Assumes approximate 6,000 sf as conservative estimate to account for 4,880 sf car wash building and 31 vacuum stations.

Construction Phase - Assumes approximate 6-month construction timeline.

Off-road Equipment - Equipment use on worst-case day.

Off-road Equipment - Equipment use on worst-case day.

Off-road Equipment - Equipment use on worst-case day.

Off-road Equipment -

Trips and VMT - Assumes same worker trip rates for building and architectural coatings phase.

Demolition - Demo existing approx. 2,100 sf dealership RV

Vehicle Trips - Trip rates provided by Traffic Consultant. Assumes 40% pass-by reduction.

Water And Wastewater - Annual water consumption 30 gallons per vehicle x 468 trip/day x 365 days/year.

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

Construction Off-road Equipment Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	200.00	66.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	10.00	21.00
tblLandUse	LotAcreage	0.14	1.26
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	2.00	18.00
tblTripsAndVMT	WorkerTripNumber	0.00	13.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	0.00	48.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	0.00	33.00
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PB_TP	0.00	40.00
tblVehicleTrips	PR_TP	21.00	0.00
tblVehicleTrips	PR_TP	0.00	60.00
tblVehicleTrips	ST_TR	23.72	0.00

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

tblVehicleTrips	ST_TR	0.00	468.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	0.00	468.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	0.00	468.00
tblWater	OutdoorWaterUseRate	345,975.69	5,124,600.00

**2.0 Emissions Summary**

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Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, 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	0.1666	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003
Energy	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112
Mobile	1.0599	1.0314	8.6871	0.0161	1.7413	0.0131	1.7544	0.4638	0.0122	0.4761		1,638.4697	1,638.4697	0.1410	0.0852	1,667.3912
Stationary	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
<b>Total</b>	<b>2.0490</b>	<b>4.7194</b>	<b>10.7956</b>	<b>0.0201</b>	<b>1.7413</b>	<b>0.1352</b>	<b>1.8765</b>	<b>0.4638</b>	<b>0.1344</b>	<b>0.5982</b>		<b>2,080.5071</b>	<b>2,080.5071</b>	<b>0.2002</b>	<b>0.0856</b>	<b>2,111.0323</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

**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	lb/day										lb/day					
Area	0.1570	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003
Energy	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112
Mobile	1.0599	1.0314	8.6871	0.0161	1.7413	0.0131	1.7544	0.4638	0.0122	0.4761		1,638.4697	1,638.4697	0.1410	0.0852	1,667.3912
Stationary	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
<b>Total</b>	<b>2.0394</b>	<b>4.7194</b>	<b>10.7956</b>	<b>0.0201</b>	<b>1.7413</b>	<b>0.1352</b>	<b>1.8765</b>	<b>0.4638</b>	<b>0.1344</b>	<b>0.5982</b>		<b>2,080.5071</b>	<b>2,080.5071</b>	<b>0.2002</b>	<b>0.0856</b>	<b>2,111.0323</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>0.47</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>	<b>0.00</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>	<b>0.00</b>	<b>0.00</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	Demolition/Site Clearing	Demolition	7/3/2023	8/1/2023	5	22	
2	Building Construction	Building Construction	8/1/2023	10/31/2023	5	66	
3	Architectural Coating	Architectural Coating	11/1/2023	11/30/2023	5	22	
4	Paving	Paving	12/1/2023	12/31/2023	5	21	

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,000; Non-Residential Outdoor: 3,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition/Site Clearing	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition/Site Clearing	Rubber Tired Dozers	2	8.00	247	0.40
Demolition/Site Clearing	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Architectural Coating	Air Compressors	3	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**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/Site Clearing	7	18.00	0.00	10.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

Building Construction	7	18.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition/Site Clearing - 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					0.0951	0.0000	0.0951	0.0144	0.0000	0.0144			0.0000			0.0000
Off-Road	2.4909	24.0298	20.2214	0.0389		1.1258	1.1258		1.0563	1.0563		3,744.0623	3,744.0623	0.8860		3,766.2109
<b>Total</b>	<b>2.4909</b>	<b>24.0298</b>	<b>20.2214</b>	<b>0.0389</b>	<b>0.0951</b>	<b>1.1258</b>	<b>1.2210</b>	<b>0.0144</b>	<b>1.0563</b>	<b>1.0707</b>		<b>3,744.0623</b>	<b>3,744.0623</b>	<b>0.8860</b>		<b>3,766.2109</b>



Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

**3.2 Demolition/Site Clearing - 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	lb/day										lb/day					
Hauling	9.7000e-004	0.0619	0.0165	2.7000e-004	7.9500e-003	5.1000e-004	8.4600e-003	2.1800e-003	4.8000e-004	2.6600e-003		30.0873	30.0873	1.5100e-003	4.7800e-003	31.5509
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	0.0533	0.0344	0.4105	1.2300e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		124.8010	124.8010	3.8100e-003	3.5600e-003	125.9573
<b>Total</b>	<b>0.0543</b>	<b>0.0962</b>	<b>0.4270</b>	<b>1.5000e-003</b>	<b>0.1558</b>	<b>1.3000e-003</b>	<b>0.1571</b>	<b>0.0414</b>	<b>1.2100e-003</b>	<b>0.0426</b>		<b>154.8883</b>	<b>154.8883</b>	<b>5.3200e-003</b>	<b>8.3400e-003</b>	<b>157.5082</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	lb/day										lb/day					
Fugitive Dust					0.0428	0.0000	0.0428	6.4800e-003	0.0000	6.4800e-003			0.0000			0.0000
Off-Road	2.4909	24.0298	20.2214	0.0389		1.1258	1.1258		1.0563	1.0563	0.0000	3,744.0623	3,744.0623	0.8860		3,766.2109
<b>Total</b>	<b>2.4909</b>	<b>24.0298</b>	<b>20.2214</b>	<b>0.0389</b>	<b>0.0428</b>	<b>1.1258</b>	<b>1.1686</b>	<b>6.4800e-003</b>	<b>1.0563</b>	<b>1.0628</b>	<b>0.0000</b>	<b>3,744.0623</b>	<b>3,744.0623</b>	<b>0.8860</b>		<b>3,766.2109</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

**3.2 Demolition/Site Clearing - 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	lb/day										lb/day					
Hauling	9.7000e-004	0.0619	0.0165	2.7000e-004	7.9500e-003	5.1000e-004	8.4600e-003	2.1800e-003	4.8000e-004	2.6600e-003		30.0873	30.0873	1.5100e-003	4.7800e-003	31.5509
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	0.0533	0.0344	0.4105	1.2300e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		124.8010	124.8010	3.8100e-003	3.5600e-003	125.9573
<b>Total</b>	<b>0.0543</b>	<b>0.0962</b>	<b>0.4270</b>	<b>1.5000e-003</b>	<b>0.1558</b>	<b>1.3000e-003</b>	<b>0.1571</b>	<b>0.0414</b>	<b>1.2100e-003</b>	<b>0.0426</b>		<b>154.8883</b>	<b>154.8883</b>	<b>5.3200e-003</b>	<b>8.3400e-003</b>	<b>157.5082</b>

**3.3 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	1.3185	9.2169	11.5436	0.0184		0.4093	0.4093		0.4012	0.4012		1,633.1896	1,633.1896	0.2096		1,638.4300
<b>Total</b>	<b>1.3185</b>	<b>9.2169</b>	<b>11.5436</b>	<b>0.0184</b>		<b>0.4093</b>	<b>0.4093</b>		<b>0.4012</b>	<b>0.4012</b>		<b>1,633.1896</b>	<b>1,633.1896</b>	<b>0.2096</b>		<b>1,638.4300</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

**3.3 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	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	1.1600e-003	0.0447	0.0159	2.1000e-004	6.7700e-003	2.6000e-004	7.0400e-003	1.9500e-003	2.5000e-004	2.2000e-003		22.1361	22.1361	6.7000e-004	3.2100e-003	23.1088
Worker	0.0533	0.0344	0.4105	1.2300e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		124.8010	124.8010	3.8100e-003	3.5600e-003	125.9573
<b>Total</b>	<b>0.0545</b>	<b>0.0790</b>	<b>0.4264</b>	<b>1.4400e-003</b>	<b>0.1546</b>	<b>1.0500e-003</b>	<b>0.1557</b>	<b>0.0412</b>	<b>9.8000e-004</b>	<b>0.0422</b>		<b>146.9371</b>	<b>146.9371</b>	<b>4.4800e-003</b>	<b>6.7700e-003</b>	<b>149.0661</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	lb/day										lb/day					
Off-Road	1.3185	9.2169	11.5436	0.0184		0.4093	0.4093		0.4012	0.4012	0.0000	1,633.1896	1,633.1896	0.2096		1,638.4300
<b>Total</b>	<b>1.3185</b>	<b>9.2169</b>	<b>11.5436</b>	<b>0.0184</b>		<b>0.4093</b>	<b>0.4093</b>		<b>0.4012</b>	<b>0.4012</b>	<b>0.0000</b>	<b>1,633.1896</b>	<b>1,633.1896</b>	<b>0.2096</b>		<b>1,638.4300</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

**3.3 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	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	1.1600e-003	0.0447	0.0159	2.1000e-004	6.7700e-003	2.6000e-004	7.0400e-003	1.9500e-003	2.5000e-004	2.2000e-003		22.1361	22.1361	6.7000e-004	3.2100e-003	23.1088
Worker	0.0533	0.0344	0.4105	1.2300e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		124.8010	124.8010	3.8100e-003	3.5600e-003	125.9573
<b>Total</b>	<b>0.0545</b>	<b>0.0790</b>	<b>0.4264</b>	<b>1.4400e-003</b>	<b>0.1546</b>	<b>1.0500e-003</b>	<b>0.1557</b>	<b>0.0412</b>	<b>9.8000e-004</b>	<b>0.0422</b>		<b>146.9371</b>	<b>146.9371</b>	<b>4.4800e-003</b>	<b>6.7700e-003</b>	<b>149.0661</b>

**3.4 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	6.3205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6442	4.9755	7.6174	0.0123		0.2309	0.2309		0.2294	0.2294		1,169.5838	1,169.5838	0.1557		1,173.4765
<b>Total</b>	<b>6.9647</b>	<b>4.9755</b>	<b>7.6174</b>	<b>0.0123</b>		<b>0.2309</b>	<b>0.2309</b>		<b>0.2294</b>	<b>0.2294</b>		<b>1,169.5838</b>	<b>1,169.5838</b>	<b>0.1557</b>		<b>1,173.4765</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

**3.4 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	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	0.0385	0.0248	0.2965	8.9000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		90.1341	90.1341	2.7500e-003	2.5700e-003	90.9692
<b>Total</b>	<b>0.0385</b>	<b>0.0248</b>	<b>0.2965</b>	<b>8.9000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>90.1341</b>	<b>90.1341</b>	<b>2.7500e-003</b>	<b>2.5700e-003</b>	<b>90.9692</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	lb/day										lb/day					
Archit. Coating	6.3205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6442	4.9755	7.6174	0.0123		0.2309	0.2309		0.2294	0.2294	0.0000	1,169.5838	1,169.5838	0.1557		1,173.4765
<b>Total</b>	<b>6.9647</b>	<b>4.9755</b>	<b>7.6174</b>	<b>0.0123</b>		<b>0.2309</b>	<b>0.2309</b>		<b>0.2294</b>	<b>0.2294</b>	<b>0.0000</b>	<b>1,169.5838</b>	<b>1,169.5838</b>	<b>0.1557</b>		<b>1,173.4765</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

**3.4 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	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	0.0385	0.0248	0.2965	8.9000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		90.1341	90.1341	2.7500e-003	2.5700e-003	90.9692
<b>Total</b>	<b>0.0385</b>	<b>0.0248</b>	<b>0.2965</b>	<b>8.9000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>90.1341</b>	<b>90.1341</b>	<b>2.7500e-003</b>	<b>2.5700e-003</b>	<b>90.9692</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	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6446</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>		<b>1,297.6880</b>	<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, 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 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	0.0385	0.0248	0.2965	8.9000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		90.1341	90.1341	2.7500e-003	2.5700e-003	90.9692
<b>Total</b>	<b>0.0385</b>	<b>0.0248</b>	<b>0.2965</b>	<b>8.9000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>90.1341</b>	<b>90.1341</b>	<b>2.7500e-003</b>	<b>2.5700e-003</b>	<b>90.9692</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	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6446</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>	<b>0.0000</b>	<b>1,297.6880</b>	<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, 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 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	0.0385	0.0248	0.2965	8.9000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289		90.1341	90.1341	2.7500e-003	2.5700e-003	90.9692
<b>Total</b>	<b>0.0385</b>	<b>0.0248</b>	<b>0.2965</b>	<b>8.9000e-004</b>	<b>0.1068</b>	<b>5.7000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>90.1341</b>	<b>90.1341</b>	<b>2.7500e-003</b>	<b>2.5700e-003</b>	<b>90.9692</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, 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	1.0599	1.0314	8.6871	0.0161	1.7413	0.0131	1.7544	0.4638	0.0122	0.4761		1,638.4697	1,638.4697	0.1410	0.0852	1,667.3912
Unmitigated	1.0599	1.0314	8.6871	0.0161	1.7413	0.0131	1.7544	0.4638	0.0122	0.4761		1,638.4697	1,638.4697	0.1410	0.0852	1,667.3912

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
User Defined Commercial	468.00	468.00	468.00	827,161	827,161
<b>Total</b>	<b>468.00</b>	<b>468.00</b>	<b>468.00</b>	<b>827,161</b>	<b>827,161</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
Automobile Care Center	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
User Defined Commercial	9.50	7.30	7.30	33.00	48.00	19.00	60	0	40

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
User Defined Commercial	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949

**5.0 Energy Detail**

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

**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	lb/day										lb/day					
NaturalGas Mitigated	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112
NaturalGas Unmitigated	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112

**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					
Automobile Care Center	189.37	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112
User Defined Commercial	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>2.0400e-003</b>	<b>0.0186</b>	<b>0.0156</b>	<b>1.1000e-004</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>22.2788</b>	<b>22.2788</b>	<b>4.3000e-004</b>	<b>4.1000e-004</b>	<b>22.4112</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, 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					
Automobile Care Center	0.18937	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003		22.2788	22.2788	4.3000e-004	4.1000e-004	22.4112
User Defined Commercial	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>2.0400e-003</b>	<b>0.0186</b>	<b>0.0156</b>	<b>1.1000e-004</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>22.2788</b>	<b>22.2788</b>	<b>4.3000e-004</b>	<b>4.1000e-004</b>	<b>22.4112</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Use Low VOC Cleaning Supplies

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, 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	0.1570	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003
Unmitigated	0.1666	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.0000e-005	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003
<b>Total</b>	<b>0.1666</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>		<b>1.6300e-003</b>

Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, 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	0.0381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1188					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.0000e-005	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5300e-003	1.5300e-003	0.0000		1.6300e-003
<b>Total</b>	<b>0.1570</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>		<b>1.6300e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**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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Super Star Car Wash Project - 8837 Magnolia - San Diego Air Basin, Winter

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

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	12	1000	0.73	Diesel

**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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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
<b>Total</b>	<b>0.8205</b>	<b>3.6694</b>	<b>2.0922</b>	<b>3.9400e-003</b>		<b>0.1207</b>	<b>0.1207</b>		<b>0.1207</b>	<b>0.1207</b>		<b>419.7571</b>	<b>419.7571</b>	<b>0.0589</b>		<b>421.2283</b>

**11.0 Vegetation**