

Markham Street - Riverside-South Coast County, Annual

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

**Markham Street**

**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.47	1000sqft	0.01	470.00	0
Other Asphalt Surfaces	355.57	1000sqft	8.16	355,567.00	0
Other Non-Asphalt Surfaces	49.38	1000sqft	1.13	49,384.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	531.98	<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 -
- Construction Phase - Per contractor.
- Off-road Equipment - Per Contractor.
- Grading -
- Off-road Equipment - Per contractor.
- Off-road Equipment - Per contractor
- Off-road Equipment - Per contractor.
- Vehicle Trips - Per TIA
- Fleet Mix - Per TIA

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Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	230.00	80.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	PhaseEndDate	2/2/2023	1/26/2023
tblConstructionPhase	PhaseEndDate	12/8/2022	5/12/2022
tblConstructionPhase	PhaseEndDate	12/23/2021	12/16/2021
tblFleetMix	HHD	0.02	0.22
tblFleetMix	LDA	0.53	0.32
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.31
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.15
tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblVehicleTrips	ST_TR	1.99	987.20
tblVehicleTrips	SU_TR	5.00	987.20
tblVehicleTrips	WD_TR	4.96	987.20

**2.0 Emissions Summary**

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	9.4900e-003	0.0999	0.0573	1.1000e-004	0.0456	4.7000e-003	0.0503	0.0196	4.3300e-003	0.0240	0.0000	9.8661	9.8661	3.0600e-003	1.0000e-005	9.9465
2022	0.0986	0.7478	0.8896	2.1700e-003	0.1457	0.0336	0.1793	0.0494	0.0315	0.0808	0.0000	196.9112	196.9112	0.0251	8.5300e-003	200.0801
2023	0.0640	0.0206	0.0367	7.0000e-005	2.9800e-003	1.0600e-003	4.0300e-003	7.9000e-004	1.0100e-003	1.8000e-003	0.0000	6.2112	6.2112	8.2000e-004	6.0000e-005	6.2496
<b>Maximum</b>	<b>0.0986</b>	<b>0.7478</b>	<b>0.8896</b>	<b>2.1700e-003</b>	<b>0.1457</b>	<b>0.0336</b>	<b>0.1793</b>	<b>0.0494</b>	<b>0.0315</b>	<b>0.0808</b>	<b>0.0000</b>	<b>196.9112</b>	<b>196.9112</b>	<b>0.0251</b>	<b>8.5300e-003</b>	<b>200.0801</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	9.4900e-003	0.0999	0.0573	1.1000e-004	0.0208	4.7000e-003	0.0255	8.9200e-003	4.3300e-003	0.0132	0.0000	9.8661	9.8661	3.0600e-003	1.0000e-005	9.9465
2022	0.0986	0.7478	0.8896	2.1700e-003	0.1166	0.0336	0.1503	0.0360	0.0315	0.0675	0.0000	196.9111	196.9111	0.0251	8.5300e-003	200.0800
2023	0.0640	0.0206	0.0367	7.0000e-005	2.9800e-003	1.0600e-003	4.0300e-003	7.9000e-004	1.0100e-003	1.8000e-003	0.0000	6.2112	6.2112	8.2000e-004	6.0000e-005	6.2496
<b>Maximum</b>	<b>0.0986</b>	<b>0.7478</b>	<b>0.8896</b>	<b>2.1700e-003</b>	<b>0.1166</b>	<b>0.0336</b>	<b>0.1503</b>	<b>0.0360</b>	<b>0.0315</b>	<b>0.0675</b>	<b>0.0000</b>	<b>196.9111</b>	<b>196.9111</b>	<b>0.0251</b>	<b>8.5300e-003</b>	<b>200.0800</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	27.70	0.00	23.02	34.53	0.00	22.61	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-10-2021	3-9-2022	0.5240	0.5240
2	3-10-2022	6-9-2022	0.3727	0.3727
4	9-10-2022	12-9-2022	0.0026	0.0026
5	12-10-2022	3-9-2023	0.1400	0.1400
		Highest	0.5240	0.5240

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0342	5.0000e-005	5.1800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0101	0.0101	3.0000e-005	0.0000	0.0107
Energy	8.0000e-005	7.4000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.9359	1.9359	9.0000e-005	2.0000e-005	1.9450
Mobile	0.1584	3.3245	1.7006	0.0160	0.8557	0.0406	0.8963	0.2386	0.0388	0.2774	0.0000	1,524.1103	1,524.1103	0.0183	0.1759	1,576.9821
Waste						0.0000	0.0000		0.0000	0.0000	0.1177	0.0000	0.1177	6.9600e-003	0.0000	0.2917
Water						0.0000	0.0000		0.0000	0.0000	0.0345	0.3415	0.3760	3.5600e-003	9.0000e-005	0.4907
<b>Total</b>	<b>0.1927</b>	<b>3.3253</b>	<b>1.7064</b>	<b>0.0160</b>	<b>0.8557</b>	<b>0.0407</b>	<b>0.8964</b>	<b>0.2386</b>	<b>0.0389</b>	<b>0.2774</b>	<b>0.1522</b>	<b>1,526.3978</b>	<b>1,526.5500</b>	<b>0.0289</b>	<b>0.1760</b>	<b>1,579.7202</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0342	5.0000e-005	5.1800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0101	0.0101	3.0000e-005	0.0000	0.0107
Energy	8.0000e-005	7.4000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.9359	1.9359	9.0000e-005	2.0000e-005	1.9450
Mobile	0.1584	3.3245	1.7006	0.0160	0.8557	0.0406	0.8963	0.2386	0.0388	0.2774	0.0000	1,524.1103	1,524.1103	0.0183	0.1759	1,576.9821
Waste						0.0000	0.0000		0.0000	0.0000	0.1177	0.0000	0.1177	6.9600e-003	0.0000	0.2917
Water						0.0000	0.0000		0.0000	0.0000	0.0345	0.3415	0.3760	3.5600e-003	9.0000e-005	0.4907
<b>Total</b>	<b>0.1927</b>	<b>3.3253</b>	<b>1.7064</b>	<b>0.0160</b>	<b>0.8557</b>	<b>0.0407</b>	<b>0.8964</b>	<b>0.2386</b>	<b>0.0389</b>	<b>0.2774</b>	<b>0.1522</b>	<b>1,526.3978</b>	<b>1,526.5500</b>	<b>0.0289</b>	<b>0.1760</b>	<b>1,579.7202</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>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	Site Preparation	Site Preparation	12/10/2021	12/16/2021	5	5	
2	Grading	Grading	12/24/2021	1/20/2022	5	20	
3	Building Construction	Building Construction	1/21/2022	5/12/2022	5	80	

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4	Paving	Paving	12/9/2022	1/5/2023	5	20
5	Architectural Coating	Architectural Coating	1/6/2023	1/26/2023	5	15

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 9.29**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 705; Non-Residential Outdoor: 235; Striped Parking Area: 24,297 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	4.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45

**Trips and VMT**

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	170.00	66.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0164	0.0000	0.0164	8.4200e-003	0.0000	8.4200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0369	0.0214	4.0000e-005		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	3.2413	3.2413	1.0500e-003	0.0000	3.2675
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0369</b>	<b>0.0214</b>	<b>4.0000e-005</b>	<b>0.0164</b>	<b>1.8900e-003</b>	<b>0.0183</b>	<b>8.4200e-003</b>	<b>1.7400e-003</b>	<b>0.0102</b>	<b>0.0000</b>	<b>3.2413</b>	<b>3.2413</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2675</b>



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**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	7.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1786	0.1786	1.0000e-005	1.0000e-005	0.1803
<b>Total</b>	<b>8.0000e-005</b>	<b>6.0000e-005</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1786</b>	<b>0.1786</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.1803</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.3700e-003	0.0000	7.3700e-003	3.7900e-003	0.0000	3.7900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0369	0.0214	4.0000e-005		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	3.2413	3.2413	1.0500e-003	0.0000	3.2675
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0369</b>	<b>0.0214</b>	<b>4.0000e-005</b>	<b>7.3700e-003</b>	<b>1.8900e-003</b>	<b>9.2600e-003</b>	<b>3.7900e-003</b>	<b>1.7400e-003</b>	<b>5.5300e-003</b>	<b>0.0000</b>	<b>3.2413</b>	<b>3.2413</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2675</b>

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**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	7.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1786	0.1786	1.0000e-005	1.0000e-005	0.1803
<b>Total</b>	<b>8.0000e-005</b>	<b>6.0000e-005</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1786</b>	<b>0.1786</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.1803</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0287	0.0000	0.0287	0.0111	0.0000	0.0111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7500e-003	0.0628	0.0340	7.0000e-005		2.8100e-003	2.8100e-003		2.5800e-003	2.5800e-003	0.0000	6.1783	6.1783	2.0000e-003	0.0000	6.2282
<b>Total</b>	<b>5.7500e-003</b>	<b>0.0628</b>	<b>0.0340</b>	<b>7.0000e-005</b>	<b>0.0287</b>	<b>2.8100e-003</b>	<b>0.0315</b>	<b>0.0111</b>	<b>2.5800e-003</b>	<b>0.0137</b>	<b>0.0000</b>	<b>6.1783</b>	<b>6.1783</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>6.2282</b>

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**3.3 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	9.0000e-005	1.1200e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2680	0.2680	1.0000e-005	1.0000e-005	0.2705
<b>Total</b>	<b>1.1000e-004</b>	<b>9.0000e-005</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2680</b>	<b>0.2680</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2705</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0129	0.0000	0.0129	4.9800e-003	0.0000	4.9800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7500e-003	0.0628	0.0340	7.0000e-005		2.8100e-003	2.8100e-003		2.5800e-003	2.5800e-003	0.0000	6.1783	6.1783	2.0000e-003	0.0000	6.2282
<b>Total</b>	<b>5.7500e-003</b>	<b>0.0628</b>	<b>0.0340</b>	<b>7.0000e-005</b>	<b>0.0129</b>	<b>2.8100e-003</b>	<b>0.0157</b>	<b>4.9800e-003</b>	<b>2.5800e-003</b>	<b>7.5600e-003</b>	<b>0.0000</b>	<b>6.1783</b>	<b>6.1783</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>6.2282</b>

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

**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	9.0000e-005	1.1200e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2680	0.2680	1.0000e-005	1.0000e-005	0.2705
<b>Total</b>	<b>1.1000e-004</b>	<b>9.0000e-005</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2680</b>	<b>0.2680</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2705</b>

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0528	0.0000	0.0528	0.0243	0.0000	0.0243	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1225	0.0756	1.6000e-004		5.3200e-003	5.3200e-003		4.9000e-003	4.9000e-003	0.0000	14.4124	14.4124	4.6600e-003	0.0000	14.5290
<b>Total</b>	<b>0.0113</b>	<b>0.1225</b>	<b>0.0756</b>	<b>1.6000e-004</b>	<b>0.0528</b>	<b>5.3200e-003</b>	<b>0.0581</b>	<b>0.0243</b>	<b>4.9000e-003</b>	<b>0.0292</b>	<b>0.0000</b>	<b>14.4124</b>	<b>14.4124</b>	<b>4.6600e-003</b>	<b>0.0000</b>	<b>14.5290</b>

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

**3.3 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.9000e-004	2.3800e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6084	0.6084	2.0000e-005	2.0000e-005	0.6138
<b>Total</b>	<b>2.4000e-004</b>	<b>1.9000e-004</b>	<b>2.3800e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>7.7000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6084</b>	<b>0.6084</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6138</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0237	0.0000	0.0237	0.0109	0.0000	0.0109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1225	0.0756	1.6000e-004		5.3200e-003	5.3200e-003		4.9000e-003	4.9000e-003	0.0000	14.4124	14.4124	4.6600e-003	0.0000	14.5289
<b>Total</b>	<b>0.0113</b>	<b>0.1225</b>	<b>0.0756</b>	<b>1.6000e-004</b>	<b>0.0237</b>	<b>5.3200e-003</b>	<b>0.0291</b>	<b>0.0109</b>	<b>4.9000e-003</b>	<b>0.0158</b>	<b>0.0000</b>	<b>14.4124</b>	<b>14.4124</b>	<b>4.6600e-003</b>	<b>0.0000</b>	<b>14.5289</b>

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

**3.3 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.9000e-004	2.3800e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6084	0.6084	2.0000e-005	2.0000e-005	0.6138
<b>Total</b>	<b>2.4000e-004</b>	<b>1.9000e-004</b>	<b>2.3800e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>7.7000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6084</b>	<b>0.6084</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6138</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0458	0.4447	0.4800	7.8000e-004		0.0240	0.0240		0.0226	0.0226	0.0000	67.9921	67.9921	0.0158	0.0000	68.3859
<b>Total</b>	<b>0.0458</b>	<b>0.4447</b>	<b>0.4800</b>	<b>7.8000e-004</b>		<b>0.0240</b>	<b>0.0240</b>		<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>67.9921</b>	<b>67.9921</b>	<b>0.0158</b>	<b>0.0000</b>	<b>68.3859</b>

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

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-003	0.1172	0.0395	4.8000e-004	0.0167	1.6100e-003	0.0183	4.8100e-003	1.5400e-003	6.3500e-003	0.0000	46.2310	46.2310	4.9000e-004	6.8600e-003	48.2875
Worker	0.0238	0.0185	0.2316	6.4000e-004	0.0747	3.8000e-004	0.0751	0.0199	3.5000e-004	0.0202	0.0000	59.1000	59.1000	1.5800e-003	1.6400e-003	59.6270
<b>Total</b>	<b>0.0280</b>	<b>0.1357</b>	<b>0.2711</b>	<b>1.1200e-003</b>	<b>0.0914</b>	<b>1.9900e-003</b>	<b>0.0934</b>	<b>0.0247</b>	<b>1.8900e-003</b>	<b>0.0266</b>	<b>0.0000</b>	<b>105.3310</b>	<b>105.3310</b>	<b>2.0700e-003</b>	<b>8.5000e-003</b>	<b>107.9145</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0458	0.4447	0.4800	7.8000e-004		0.0240	0.0240		0.0226	0.0226	0.0000	67.9920	67.9920	0.0158	0.0000	68.3858
<b>Total</b>	<b>0.0458</b>	<b>0.4447</b>	<b>0.4800</b>	<b>7.8000e-004</b>		<b>0.0240</b>	<b>0.0240</b>		<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>67.9920</b>	<b>67.9920</b>	<b>0.0158</b>	<b>0.0000</b>	<b>68.3858</b>

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

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-003	0.1172	0.0395	4.8000e-004	0.0167	1.6100e-003	0.0183	4.8100e-003	1.5400e-003	6.3500e-003	0.0000	46.2310	46.2310	4.9000e-004	6.8600e-003	48.2875
Worker	0.0238	0.0185	0.2316	6.4000e-004	0.0747	3.8000e-004	0.0751	0.0199	3.5000e-004	0.0202	0.0000	59.1000	59.1000	1.5800e-003	1.6400e-003	59.6270
<b>Total</b>	<b>0.0280</b>	<b>0.1357</b>	<b>0.2711</b>	<b>1.1200e-003</b>	<b>0.0914</b>	<b>1.9900e-003</b>	<b>0.0934</b>	<b>0.0247</b>	<b>1.8900e-003</b>	<b>0.0266</b>	<b>0.0000</b>	<b>105.3310</b>	<b>105.3310</b>	<b>2.0700e-003</b>	<b>8.5000e-003</b>	<b>107.9145</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4100e-003	0.0445	0.0583	9.0000e-005		2.2700e-003	2.2700e-003		2.0900e-003	2.0900e-003	0.0000	8.0110	8.0110	2.5900e-003	0.0000	8.0758
Paving	8.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0130</b>	<b>0.0445</b>	<b>0.0583</b>	<b>9.0000e-005</b>		<b>2.2700e-003</b>	<b>2.2700e-003</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>	<b>0.0000</b>	<b>8.0110</b>	<b>8.0110</b>	<b>2.5900e-003</b>	<b>0.0000</b>	<b>8.0758</b>



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

**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.7000e-004	2.1800e-003	1.0000e-005	7.0000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5562	0.5562	1.0000e-005	2.0000e-005	0.5612
<b>Total</b>	<b>2.2000e-004</b>	<b>1.7000e-004</b>	<b>2.1800e-003</b>	<b>1.0000e-005</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>7.1000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5562</b>	<b>0.5562</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5612</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4100e-003	0.0445	0.0583	9.0000e-005		2.2700e-003	2.2700e-003		2.0900e-003	2.0900e-003	0.0000	8.0110	8.0110	2.5900e-003	0.0000	8.0758
Paving	8.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0130</b>	<b>0.0445</b>	<b>0.0583</b>	<b>9.0000e-005</b>		<b>2.2700e-003</b>	<b>2.2700e-003</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>	<b>0.0000</b>	<b>8.0110</b>	<b>8.0110</b>	<b>2.5900e-003</b>	<b>0.0000</b>	<b>8.0758</b>

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

**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.7000e-004	2.1800e-003	1.0000e-005	7.0000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5562	0.5562	1.0000e-005	2.0000e-005	0.5612
<b>Total</b>	<b>2.2000e-004</b>	<b>1.7000e-004</b>	<b>2.1800e-003</b>	<b>1.0000e-005</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>7.1000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5562</b>	<b>0.5562</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5612</b>

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0300e-003	0.0102	0.0146	2.0000e-005		5.1000e-004	5.1000e-004		4.7000e-004	4.7000e-004	0.0000	2.0027	2.0027	6.5000e-004	0.0000	2.0189
Paving	2.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.1700e-003</b>	<b>0.0102</b>	<b>0.0146</b>	<b>2.0000e-005</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>2.0027</b>	<b>2.0027</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>2.0189</b>

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

**3.5 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	5.0000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1354	0.1354	0.0000	0.0000	0.1366
<b>Total</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1354</b>	<b>0.1354</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1366</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0300e-003	0.0102	0.0146	2.0000e-005		5.1000e-004	5.1000e-004		4.7000e-004	4.7000e-004	0.0000	2.0027	2.0027	6.5000e-004	0.0000	2.0189
Paving	2.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.1700e-003</b>	<b>0.0102</b>	<b>0.0146</b>	<b>2.0000e-005</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>2.0027</b>	<b>2.0027</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>2.0189</b>

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

**3.5 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	5.0000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1354	0.1354	0.0000	0.0000	0.1366
<b>Total</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1354</b>	<b>0.1354</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1366</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0585					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4400e-003	9.7700e-003	0.0136	2.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	1.9149	1.9149	1.1000e-004	0.0000	1.9178
<b>Total</b>	<b>0.0599</b>	<b>9.7700e-003</b>	<b>0.0136</b>	<b>2.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.9149</b>	<b>1.9149</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9178</b>

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.1000e-004	8.0100e-003	2.0000e-005	2.8000e-003	1.0000e-005	2.8200e-003	7.4000e-004	1.0000e-005	7.6000e-004	0.0000	2.1582	2.1582	5.0000e-005	6.0000e-005	2.1763
<b>Total</b>	<b>8.3000e-004</b>	<b>6.1000e-004</b>	<b>8.0100e-003</b>	<b>2.0000e-005</b>	<b>2.8000e-003</b>	<b>1.0000e-005</b>	<b>2.8200e-003</b>	<b>7.4000e-004</b>	<b>1.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.1582</b>	<b>2.1582</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>2.1763</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0585					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4400e-003	9.7700e-003	0.0136	2.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	1.9149	1.9149	1.1000e-004	0.0000	1.9178
<b>Total</b>	<b>0.0599</b>	<b>9.7700e-003</b>	<b>0.0136</b>	<b>2.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.9149</b>	<b>1.9149</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9178</b>

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.1000e-004	8.0100e-003	2.0000e-005	2.8000e-003	1.0000e-005	2.8200e-003	7.4000e-004	1.0000e-005	7.6000e-004	0.0000	2.1582	2.1582	5.0000e-005	6.0000e-005	2.1763
<b>Total</b>	<b>8.3000e-004</b>	<b>6.1000e-004</b>	<b>8.0100e-003</b>	<b>2.0000e-005</b>	<b>2.8000e-003</b>	<b>1.0000e-005</b>	<b>2.8200e-003</b>	<b>7.4000e-004</b>	<b>1.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.1582</b>	<b>2.1582</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>2.1763</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1584	3.3245	1.7006	0.0160	0.8557	0.0406	0.8963	0.2386	0.0388	0.2774	0.0000	1,524.1103	1,524.1103	0.0183	0.1759	1,576.9821
Unmitigated	0.1584	3.3245	1.7006	0.0160	0.8557	0.0406	0.8963	0.2386	0.0388	0.2774	0.0000	1,524.1103	1,524.1103	0.0183	0.1759	1,576.9821

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	463.98	463.98	463.98	2,054,650	2,054,650
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>463.98</b>	<b>463.98</b>	<b>463.98</b>	<b>2,054,650</b>	<b>2,054,650</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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.320000	0.000000	0.000000	0.000000	0.310000	0.000000	0.150000	0.220000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

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

Other Non-Asphalt Surfaces	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.1251	1.1251	7.0000e-005	1.0000e-005	1.1293
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.1251	1.1251	7.0000e-005	1.0000e-005	1.1293
Natural Gas Mitigated	8.0000e-005	7.4000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8109	0.8109	2.0000e-005	1.0000e-005	0.8157
Natural Gas Unmitigated	8.0000e-005	7.4000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8109	0.8109	2.0000e-005	1.0000e-005	0.8157



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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	15195.1	8.0000e-005	7.4000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8109	0.8109	2.0000e-005	1.0000e-005	0.8157
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.0000e-005</b>	<b>7.4000e-004</b>	<b>6.3000e-004</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.8109</b>	<b>0.8109</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.8157</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
General Light Industry	15195.1	8.0000e-005	7.4000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8109	0.8109	2.0000e-005	1.0000e-005	0.8157
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.0000e-005</b>	<b>7.4000e-004</b>	<b>6.3000e-004</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.8109</b>	<b>0.8109</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.8157</b>

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	4662.4	1.1251	7.0000e-005	1.0000e-005	1.1293
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.1251</b>	<b>7.0000e-005</b>	<b>1.0000e-005</b>	<b>1.1293</b>

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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	4662.4	1.1251	7.0000e-005	1.0000e-005	1.1293
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.1251</b>	<b>7.0000e-005</b>	<b>1.0000e-005</b>	<b>1.1293</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0342	5.0000e-005	5.1800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0101	0.0101	3.0000e-005	0.0000	0.0107
Unmitigated	0.0342	5.0000e-005	5.1800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0101	0.0101	3.0000e-005	0.0000	0.0107

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.8500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0279					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.8000e-004	5.0000e-005	5.1800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0101	0.0101	3.0000e-005	0.0000	0.0107
<b>Total</b>	<b>0.0342</b>	<b>5.0000e-005</b>	<b>5.1800e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0101</b>	<b>0.0101</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0107</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.8500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0279					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.8000e-004	5.0000e-005	5.1800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0101	0.0101	3.0000e-005	0.0000	0.0107
<b>Total</b>	<b>0.0342</b>	<b>5.0000e-005</b>	<b>5.1800e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0101</b>	<b>0.0101</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0107</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3760	3.5600e-003	9.0000e-005	0.4907
Unmitigated	0.3760	3.5600e-003	9.0000e-005	0.4907

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.108688 / 0	0.3760	3.5600e-003	9.0000e-005	0.4907
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.3760</b>	<b>3.5600e-003</b>	<b>9.0000e-005</b>	<b>0.4907</b>

Markham Street - Riverside-South Coast County, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.108688 / 0	0.3760	3.5600e-003	9.0000e-005	0.4907
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.3760</b>	<b>3.5600e-003</b>	<b>9.0000e-005</b>	<b>0.4907</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**



Markham Street - Riverside-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1177	6.9600e-003	0.0000	0.2917
Unmitigated	0.1177	6.9600e-003	0.0000	0.2917

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.58	0.1177	6.9600e-003	0.0000	0.2917
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1177</b>	<b>6.9600e-003</b>	<b>0.0000</b>	<b>0.2917</b>

Markham Street - Riverside-South Coast County, Annual

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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.58	0.1177	6.9600e-003	0.0000	0.2917
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1177</b>	<b>6.9600e-003</b>	<b>0.0000</b>	<b>0.2917</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Markham Street - Riverside-South Coast County, Annual

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

**11.0 Vegetation**

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Markham Street - Riverside-South Coast County, Summer

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

**Markham Street**

**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.47	1000sqft	0.01	470.00	0
Other Asphalt Surfaces	355.57	1000sqft	8.16	355,567.00	0
Other Non-Asphalt Surfaces	49.38	1000sqft	1.13	49,384.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	531.98	<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 -

Construction Phase - Per contractor.

Off-road Equipment - Per Contractor.

Grading -

Off-road Equipment - Per contractor.

Off-road Equipment - Per contractor

Off-road Equipment - Per contractor.

Vehicle Trips - Per TIA

Fleet Mix - Per TIA

Markham Street - Riverside-South Coast County, Summer

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

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	230.00	80.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	PhaseEndDate	2/2/2023	1/26/2023
tblConstructionPhase	PhaseEndDate	12/8/2022	5/12/2022
tblConstructionPhase	PhaseEndDate	12/23/2021	12/16/2021
tblFleetMix	HHD	0.02	0.22
tblFleetMix	LDA	0.53	0.32
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.31
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.15
tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00

Markham Street - Riverside-South Coast County, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblVehicleTrips	ST_TR	1.99	987.20
tblVehicleTrips	SU_TR	5.00	987.20
tblVehicleTrips	WD_TR	4.96	987.20

**2.0 Emissions Summary**

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Markham Street - Riverside-South Coast County, Summer

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.9584	20.9741	11.7728	0.0245	7.1944	0.9370	8.1313	3.4544	0.8620	4.3164	0.0000	2,376.373 3	2,376.373 3	0.7371	2.7700e-003	2,395.624 3
2022	1.9229	17.5294	19.7473	0.0488	7.1944	0.7612	7.9555	3.4544	0.7003	4.1547	0.0000	4,904.166 1	4,904.166 1	0.7366	0.2321	4,985.597 2
2023	8.1141	5.1139	7.5856	0.0122	0.3800	0.2555	0.4526	0.1008	0.2351	0.2588	0.0000	1,184.288 3	1,184.288 3	0.3588	7.9800e-003	1,193.818 3
<b>Maximum</b>	<b>8.1141</b>	<b>20.9741</b>	<b>19.7473</b>	<b>0.0488</b>	<b>7.1944</b>	<b>0.9370</b>	<b>8.1313</b>	<b>3.4544</b>	<b>0.8620</b>	<b>4.3164</b>	<b>0.0000</b>	<b>4,904.166 1</b>	<b>4,904.166 1</b>	<b>0.7371</b>	<b>0.2321</b>	<b>4,985.597 2</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.9584	20.9741	11.7728	0.0245	3.2989	0.9370	4.2359	1.5708	0.8620	2.4328	0.0000	2,376.373 3	2,376.373 3	0.7371	2.7700e-003	2,395.624 3
2022	1.9229	17.5294	19.7473	0.0488	3.2989	0.7612	4.0601	1.5708	0.7003	2.2711	0.0000	4,904.166 1	4,904.166 1	0.7366	0.2321	4,985.597 2
2023	8.1141	5.1139	7.5856	0.0122	0.3800	0.2555	0.4526	0.1008	0.2351	0.2588	0.0000	1,184.288 3	1,184.288 3	0.3588	7.9800e-003	1,193.818 3
<b>Maximum</b>	<b>8.1141</b>	<b>20.9741</b>	<b>19.7473</b>	<b>0.0488</b>	<b>3.2989</b>	<b>0.9370</b>	<b>4.2359</b>	<b>1.5708</b>	<b>0.8620</b>	<b>2.4328</b>	<b>0.0000</b>	<b>4,904.166 1</b>	<b>4,904.166 1</b>	<b>0.7371</b>	<b>0.2321</b>	<b>4,985.597 2</b>

## Markham Street - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.75	0.00	47.10	53.74	0.00	43.15	0.00	0.00	0.00	0.00	0.00	0.00



Markham Street - Riverside-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1886	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946
Energy	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268
Mobile	0.9188	17.3233	9.8035	0.0891	4.7734	0.2231	4.9965	1.3285	0.2131	1.5416		9,330.3285	9,330.3285	0.1105	1.0625	9,649.7093
<b>Total</b>	<b>1.1079</b>	<b>17.3277</b>	<b>9.8484</b>	<b>0.0891</b>	<b>4.7734</b>	<b>0.2236</b>	<b>4.9969</b>	<b>1.3285</b>	<b>0.2136</b>	<b>1.5421</b>		<b>9,335.3149</b>	<b>9,335.3149</b>	<b>0.1108</b>	<b>1.0626</b>	<b>9,654.7307</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	0.1886	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946
Energy	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268
Mobile	0.9188	17.3233	9.8035	0.0891	4.7734	0.2231	4.9965	1.3285	0.2131	1.5416		9,330.3285	9,330.3285	0.1105	1.0625	9,649.7093
<b>Total</b>	<b>1.1079</b>	<b>17.3277</b>	<b>9.8484</b>	<b>0.0891</b>	<b>4.7734</b>	<b>0.2236</b>	<b>4.9969</b>	<b>1.3285</b>	<b>0.2136</b>	<b>1.5421</b>		<b>9,335.3149</b>	<b>9,335.3149</b>	<b>0.1108</b>	<b>1.0626</b>	<b>9,654.7307</b>

Markham Street - Riverside-South Coast County, Summer

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/10/2021	12/16/2021	5	5	
2	Grading	Grading	12/24/2021	1/20/2022	5	20	
3	Building Construction	Building Construction	1/21/2022	5/12/2022	5	80	
4	Paving	Paving	12/9/2022	1/5/2023	5	20	
5	Architectural Coating	Architectural Coating	1/6/2023	1/26/2023	5	15	

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 9.29**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 705; Non-Residential Outdoor: 235; Striped Parking Area: 24,297 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	4.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

Markham Street - Riverside-South Coast County, Summer

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

Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	170.00	66.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Markham Street - Riverside-South Coast County, Summer

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

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.4209	14.7629	8.5583	0.0147		0.7560	0.7560		0.6955	0.6955		1,429.1523	1,429.1523	0.4622		1,440.7078
<b>Total</b>	<b>1.4209</b>	<b>14.7629</b>	<b>8.5583</b>	<b>0.0147</b>	<b>6.5523</b>	<b>0.7560</b>	<b>7.3083</b>	<b>3.3675</b>	<b>0.6955</b>	<b>4.0630</b>		<b>1,429.1523</b>	<b>1,429.1523</b>	<b>0.4622</b>		<b>1,440.7078</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0341	0.0232	0.3486	8.4000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		84.9960	84.9960	2.2900e-003	2.2100e-003	85.7126
<b>Total</b>	<b>0.0341</b>	<b>0.0232</b>	<b>0.3486</b>	<b>8.4000e-004</b>	<b>0.0894</b>	<b>4.8000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.4000e-004</b>	<b>0.0242</b>		<b>84.9960</b>	<b>84.9960</b>	<b>2.2900e-003</b>	<b>2.2100e-003</b>	<b>85.7126</b>

Markham Street - Riverside-South Coast County, Summer

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

**3.2 Site Preparation - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	1.4209	14.7629	8.5583	0.0147		0.7560	0.7560		0.6955	0.6955	0.0000	1,429.152 3	1,429.152 3	0.4622		1,440.707 8
<b>Total</b>	<b>1.4209</b>	<b>14.7629</b>	<b>8.5583</b>	<b>0.0147</b>	<b>2.9486</b>	<b>0.7560</b>	<b>3.7046</b>	<b>1.5154</b>	<b>0.6955</b>	<b>2.2109</b>	<b>0.0000</b>	<b>1,429.152 3</b>	<b>1,429.152 3</b>	<b>0.4622</b>		<b>1,440.707 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0341	0.0232	0.3486	8.4000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		84.9960	84.9960	2.2900e-003	2.2100e-003	85.7126
<b>Total</b>	<b>0.0341</b>	<b>0.0232</b>	<b>0.3486</b>	<b>8.4000e-004</b>	<b>0.0894</b>	<b>4.8000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.4000e-004</b>	<b>0.0242</b>		<b>84.9960</b>	<b>84.9960</b>	<b>2.2900e-003</b>	<b>2.2100e-003</b>	<b>85.7126</b>

Markham Street - Riverside-South Coast County, Summer

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

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9158	20.9451	11.3370	0.0234		0.9364	0.9364		0.8615	0.8615		2,270.1284	2,270.1284	0.7342		2,288.4835
<b>Total</b>	<b>1.9158</b>	<b>20.9451</b>	<b>11.3370</b>	<b>0.0234</b>	<b>7.0826</b>	<b>0.9364</b>	<b>8.0190</b>	<b>3.4247</b>	<b>0.8615</b>	<b>4.2862</b>		<b>2,270.1284</b>	<b>2,270.1284</b>	<b>0.7342</b>		<b>2,288.4835</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0426	0.0290	0.4358	1.0500e-003	0.1118	5.9000e-004	0.1124	0.0296	5.5000e-004	0.0302		106.2450	106.2450	2.8600e-003	2.7700e-003	107.1408
<b>Total</b>	<b>0.0426</b>	<b>0.0290</b>	<b>0.4358</b>	<b>1.0500e-003</b>	<b>0.1118</b>	<b>5.9000e-004</b>	<b>0.1124</b>	<b>0.0296</b>	<b>5.5000e-004</b>	<b>0.0302</b>		<b>106.2450</b>	<b>106.2450</b>	<b>2.8600e-003</b>	<b>2.7700e-003</b>	<b>107.1408</b>

Markham Street - Riverside-South Coast County, Summer

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

**3.3 Grading - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.9158	20.9451	11.3370	0.0234		0.9364	0.9364		0.8615	0.8615	0.0000	2,270.128 4	2,270.128 4	0.7342		2,288.483 5
<b>Total</b>	<b>1.9158</b>	<b>20.9451</b>	<b>11.3370</b>	<b>0.0234</b>	<b>3.1872</b>	<b>0.9364</b>	<b>4.1235</b>	<b>1.5411</b>	<b>0.8615</b>	<b>2.4026</b>	<b>0.0000</b>	<b>2,270.128 4</b>	<b>2,270.128 4</b>	<b>0.7342</b>		<b>2,288.483 5</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0426	0.0290	0.4358	1.0500e-003	0.1118	5.9000e-004	0.1124	0.0296	5.5000e-004	0.0302		106.2450	106.2450	2.8600e-003	2.7700e-003	107.1408
<b>Total</b>	<b>0.0426</b>	<b>0.0290</b>	<b>0.4358</b>	<b>1.0500e-003</b>	<b>0.1118</b>	<b>5.9000e-004</b>	<b>0.1124</b>	<b>0.0296</b>	<b>5.5000e-004</b>	<b>0.0302</b>		<b>106.2450</b>	<b>106.2450</b>	<b>2.8600e-003</b>	<b>2.7700e-003</b>	<b>107.1408</b>

Markham Street - Riverside-South Coast County, Summer

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

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.6192	17.5039	10.7968	0.0234		0.7606	0.7606		0.6998	0.6998		2,269.5685	2,269.5685	0.7340		2,287.9191
<b>Total</b>	<b>1.6192</b>	<b>17.5039</b>	<b>10.7968</b>	<b>0.0234</b>	<b>7.0826</b>	<b>0.7606</b>	<b>7.8432</b>	<b>3.4247</b>	<b>0.6998</b>	<b>4.1245</b>		<b>2,269.5685</b>	<b>2,269.5685</b>	<b>0.7340</b>		<b>2,287.9191</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0255	0.3987	1.0200e-003	0.1118	5.6000e-004	0.1123	0.0296	5.1000e-004	0.0302		103.3539	103.3539	2.5600e-003	2.5400e-003	104.1754
<b>Total</b>	<b>0.0394</b>	<b>0.0255</b>	<b>0.3987</b>	<b>1.0200e-003</b>	<b>0.1118</b>	<b>5.6000e-004</b>	<b>0.1123</b>	<b>0.0296</b>	<b>5.1000e-004</b>	<b>0.0302</b>		<b>103.3539</b>	<b>103.3539</b>	<b>2.5600e-003</b>	<b>2.5400e-003</b>	<b>104.1754</b>



Markham Street - Riverside-South Coast County, Summer

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

**3.3 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.6192	17.5039	10.7968	0.0234		0.7606	0.7606		0.6998	0.6998	0.0000	2,269.5685	2,269.5685	0.7340		2,287.9191
<b>Total</b>	<b>1.6192</b>	<b>17.5039</b>	<b>10.7968</b>	<b>0.0234</b>	<b>3.1872</b>	<b>0.7606</b>	<b>3.9478</b>	<b>1.5411</b>	<b>0.6998</b>	<b>2.2409</b>	<b>0.0000</b>	<b>2,269.5685</b>	<b>2,269.5685</b>	<b>0.7340</b>		<b>2,287.9191</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0255	0.3987	1.0200e-003	0.1118	5.6000e-004	0.1123	0.0296	5.1000e-004	0.0302		103.3539	103.3539	2.5600e-003	2.5400e-003	104.1754
<b>Total</b>	<b>0.0394</b>	<b>0.0255</b>	<b>0.3987</b>	<b>1.0200e-003</b>	<b>0.1118</b>	<b>5.6000e-004</b>	<b>0.1123</b>	<b>0.0296</b>	<b>5.1000e-004</b>	<b>0.0302</b>		<b>103.3539</b>	<b>103.3539</b>	<b>2.5600e-003</b>	<b>2.5400e-003</b>	<b>104.1754</b>

Markham Street - Riverside-South Coast County, Summer

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

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1455	11.1175	11.9998	0.0195		0.6011	0.6011		0.5648	0.5648		1,873.7104	1,873.7104	0.4341		1,884.5628
<b>Total</b>	<b>1.1455</b>	<b>11.1175</b>	<b>11.9998</b>	<b>0.0195</b>		<b>0.6011</b>	<b>0.6011</b>		<b>0.5648</b>	<b>0.5648</b>		<b>1,873.7104</b>	<b>1,873.7104</b>	<b>0.4341</b>		<b>1,884.5628</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1074	2.7909	0.9704	0.0120	0.4227	0.0402	0.4630	0.1217	0.0385	0.1602		1,273.4392	1,273.4392	0.0135	0.1889	1,330.0521
Worker	0.6699	0.4342	6.7772	0.0173	1.9002	9.4700e-003	1.9097	0.5039	8.7200e-003	0.5127		1,757.0165	1,757.0165	0.0435	0.0432	1,770.9824
<b>Total</b>	<b>0.7773</b>	<b>3.2250</b>	<b>7.7476</b>	<b>0.0293</b>	<b>2.3229</b>	<b>0.0497</b>	<b>2.3727</b>	<b>0.6257</b>	<b>0.0472</b>	<b>0.6729</b>		<b>3,030.4557</b>	<b>3,030.4557</b>	<b>0.0570</b>	<b>0.2321</b>	<b>3,101.0345</b>

Markham Street - Riverside-South Coast County, Summer

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

**3.4 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1455	11.1175	11.9998	0.0195		0.6011	0.6011		0.5648	0.5648	0.0000	1,873.710 4	1,873.710 4	0.4341		1,884.562 8
<b>Total</b>	<b>1.1455</b>	<b>11.1175</b>	<b>11.9998</b>	<b>0.0195</b>		<b>0.6011</b>	<b>0.6011</b>		<b>0.5648</b>	<b>0.5648</b>	<b>0.0000</b>	<b>1,873.710 4</b>	<b>1,873.710 4</b>	<b>0.4341</b>		<b>1,884.562 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1074	2.7909	0.9704	0.0120	0.4227	0.0402	0.4630	0.1217	0.0385	0.1602		1,273.439 2	1,273.439 2	0.0135	0.1889	1,330.052 1
Worker	0.6699	0.4342	6.7772	0.0173	1.9002	9.4700e-003	1.9097	0.5039	8.7200e-003	0.5127		1,757.016 5	1,757.016 5	0.0435	0.0432	1,770.982 4
<b>Total</b>	<b>0.7773</b>	<b>3.2250</b>	<b>7.7476</b>	<b>0.0293</b>	<b>2.3229</b>	<b>0.0497</b>	<b>2.3727</b>	<b>0.6257</b>	<b>0.0472</b>	<b>0.6729</b>		<b>3,030.455 7</b>	<b>3,030.455 7</b>	<b>0.0570</b>	<b>0.2321</b>	<b>3,101.034 5</b>

Markham Street - Riverside-South Coast County, Summer

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

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.830 2	1,103.830 2	0.3570		1,112.755 2
Paving	1.0690					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6204</b>	<b>5.5624</b>	<b>7.2902</b>	<b>0.0114</b>		<b>0.2840</b>	<b>0.2840</b>		<b>0.2612</b>	<b>0.2612</b>		<b>1,103.830 2</b>	<b>1,103.830 2</b>	<b>0.3570</b>		<b>1,112.755 2</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0204	0.3189	8.1000e-004	0.0894	4.5000e-004	0.0899	0.0237	4.1000e-004	0.0241		82.6831	82.6831	2.0500e-003	2.0300e-003	83.3404
<b>Total</b>	<b>0.0315</b>	<b>0.0204</b>	<b>0.3189</b>	<b>8.1000e-004</b>	<b>0.0894</b>	<b>4.5000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.1000e-004</b>	<b>0.0241</b>		<b>82.6831</b>	<b>82.6831</b>	<b>2.0500e-003</b>	<b>2.0300e-003</b>	<b>83.3404</b>

Markham Street - Riverside-South Coast County, Summer

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

**3.5 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612	0.0000	1,103.830 2	1,103.830 2	0.3570		1,112.755 2
Paving	1.0690					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6204</b>	<b>5.5624</b>	<b>7.2902</b>	<b>0.0114</b>		<b>0.2840</b>	<b>0.2840</b>		<b>0.2612</b>	<b>0.2612</b>	<b>0.0000</b>	<b>1,103.830 2</b>	<b>1,103.830 2</b>	<b>0.3570</b>		<b>1,112.755 2</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0204	0.3189	8.1000e-004	0.0894	4.5000e-004	0.0899	0.0237	4.1000e-004	0.0241		82.6831	82.6831	2.0500e-003	2.0300e-003	83.3404
<b>Total</b>	<b>0.0315</b>	<b>0.0204</b>	<b>0.3189</b>	<b>8.1000e-004</b>	<b>0.0894</b>	<b>4.5000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.1000e-004</b>	<b>0.0241</b>		<b>82.6831</b>	<b>82.6831</b>	<b>2.0500e-003</b>	<b>2.0300e-003</b>	<b>83.3404</b>

Markham Street - Riverside-South Coast County, Summer

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

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5164	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347		1,103.7921	1,103.7921	0.3570		1,112.7168
Paving	1.0690					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5853</b>	<b>5.0958</b>	<b>7.2921</b>	<b>0.0114</b>		<b>0.2551</b>	<b>0.2551</b>		<b>0.2347</b>	<b>0.2347</b>		<b>1,103.7921</b>	<b>1,103.7921</b>	<b>0.3570</b>		<b>1,112.7168</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0292	0.0181	0.2935	7.9000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.9000e-004	0.0241		80.4962	80.4962	1.8400e-003	1.8800e-003	81.1015
<b>Total</b>	<b>0.0292</b>	<b>0.0181</b>	<b>0.2935</b>	<b>7.9000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.9000e-004</b>	<b>0.0241</b>		<b>80.4962</b>	<b>80.4962</b>	<b>1.8400e-003</b>	<b>1.8800e-003</b>	<b>81.1015</b>

Markham Street - Riverside-South Coast County, Summer

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

**3.5 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5164	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347	0.0000	1,103.792 1	1,103.792 1	0.3570		1,112.716 8
Paving	1.0690					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5853</b>	<b>5.0958</b>	<b>7.2921</b>	<b>0.0114</b>		<b>0.2551</b>	<b>0.2551</b>		<b>0.2347</b>	<b>0.2347</b>	<b>0.0000</b>	<b>1,103.792 1</b>	<b>1,103.792 1</b>	<b>0.3570</b>		<b>1,112.716 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0292	0.0181	0.2935	7.9000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.9000e-004	0.0241		80.4962	80.4962	1.8400e-003	1.8800e-003	81.1015
<b>Total</b>	<b>0.0292</b>	<b>0.0181</b>	<b>0.2935</b>	<b>7.9000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.9000e-004</b>	<b>0.0241</b>		<b>80.4962</b>	<b>80.4962</b>	<b>1.8400e-003</b>	<b>1.8800e-003</b>	<b>81.1015</b>

Markham Street - Riverside-South Coast County, Summer

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.7982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>7.9899</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1242	0.0768	1.2473	3.3400e-003	0.3800	1.7800e-003	0.3818	0.1008	1.6400e-003	0.1024		342.1090	342.1090	7.8100e-003	7.9800e-003	344.6813
<b>Total</b>	<b>0.1242</b>	<b>0.0768</b>	<b>1.2473</b>	<b>3.3400e-003</b>	<b>0.3800</b>	<b>1.7800e-003</b>	<b>0.3818</b>	<b>0.1008</b>	<b>1.6400e-003</b>	<b>0.1024</b>		<b>342.1090</b>	<b>342.1090</b>	<b>7.8100e-003</b>	<b>7.9800e-003</b>	<b>344.6813</b>



Markham Street - Riverside-South Coast County, Summer

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.7982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>7.9899</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1242	0.0768	1.2473	3.3400e-003	0.3800	1.7800e-003	0.3818	0.1008	1.6400e-003	0.1024		342.1090	342.1090	7.8100e-003	7.9800e-003	344.6813
<b>Total</b>	<b>0.1242</b>	<b>0.0768</b>	<b>1.2473</b>	<b>3.3400e-003</b>	<b>0.3800</b>	<b>1.7800e-003</b>	<b>0.3818</b>	<b>0.1008</b>	<b>1.6400e-003</b>	<b>0.1024</b>		<b>342.1090</b>	<b>342.1090</b>	<b>7.8100e-003</b>	<b>7.9800e-003</b>	<b>344.6813</b>

Markham Street - Riverside-South Coast County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9188	17.3233	9.8035	0.0891	4.7734	0.2231	4.9965	1.3285	0.2131	1.5416		9,330.3285	9,330.3285	0.1105	1.0625	9,649.7093
Unmitigated	0.9188	17.3233	9.8035	0.0891	4.7734	0.2231	4.9965	1.3285	0.2131	1.5416		9,330.3285	9,330.3285	0.1105	1.0625	9,649.7093

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	463.98	463.98	463.98	2,054,650	2,054,650
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	463.98	463.98	463.98	2,054,650	2,054,650

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Markham Street - Riverside-South Coast County, Summer

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.320000	0.000000	0.000000	0.000000	0.310000	0.000000	0.150000	0.220000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Other Non-Asphalt Surfaces	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268
NaturalGas Unmitigated	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268

Markham Street - Riverside-South Coast County, Summer

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

**5.2 Energy by Land Use - Natural Gas**

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	41.6304	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5000e-004</b>	<b>4.0800e-003</b>	<b>3.4300e-003</b>	<b>2.0000e-005</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>		<b>4.8977</b>	<b>4.8977</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>4.9268</b>

Markham Street - Riverside-South Coast County, Summer

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

**5.2 Energy by Land Use - Natural Gas**

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.0416304	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5000e-004</b>	<b>4.0800e-003</b>	<b>3.4300e-003</b>	<b>2.0000e-005</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>		<b>4.8977</b>	<b>4.8977</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>4.9268</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Markham Street - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1886	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946
Unmitigated	0.1886	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946

**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	0.0321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1527					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8600e-003	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946
<b>Total</b>	<b>0.1887</b>	<b>3.8000e-004</b>	<b>0.0415</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0887</b>	<b>0.0887</b>	<b>2.3000e-004</b>		<b>0.0946</b>

Markham Street - Riverside-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1527					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8600e-003	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946
<b>Total</b>	<b>0.1887</b>	<b>3.8000e-004</b>	<b>0.0415</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0887</b>	<b>0.0887</b>	<b>2.3000e-004</b>		<b>0.0946</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Markham Street - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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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Markham Street - Riverside-South Coast County, Winter

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

**Markham Street**

**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.47	1000sqft	0.01	470.00	0
Other Asphalt Surfaces	355.57	1000sqft	8.16	355,567.00	0
Other Non-Asphalt Surfaces	49.38	1000sqft	1.13	49,384.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	531.98	<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 -

Construction Phase - Per contractor.

Off-road Equipment - Per Contractor.

Grading -

Off-road Equipment - Per contractor.

Off-road Equipment - Per contractor

Off-road Equipment - Per contractor.

Vehicle Trips - Per TIA

Fleet Mix - Per TIA

Markham Street - Riverside-South Coast County, Winter

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

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	230.00	80.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	PhaseEndDate	2/2/2023	1/26/2023
tblConstructionPhase	PhaseEndDate	12/8/2022	5/12/2022
tblConstructionPhase	PhaseEndDate	12/23/2021	12/16/2021
tblFleetMix	HHD	0.02	0.22
tblFleetMix	LDA	0.53	0.32
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.31
tblFleetMix	LHD2	7.4220e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.15
tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00

Markham Street - Riverside-South Coast County, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblVehicleTrips	ST_TR	1.99	987.20
tblVehicleTrips	SU_TR	5.00	987.20
tblVehicleTrips	WD_TR	4.96	987.20

**2.0 Emissions Summary**

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Markham Street - Riverside-South Coast County, Winter

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.9555	20.9752	11.6894	0.0244	7.1944	0.9370	8.1313	3.4544	0.8620	4.3164	0.0000	2,366.3307	2,366.3307	0.7370	2.8300e-003	2,385.6007
2022	1.8742	17.5304	18.4999	0.0472	7.1944	0.7612	7.9555	3.4544	0.7003	4.1547	0.0000	4,740.0340	4,740.0340	0.7366	0.2334	4,821.8635
2023	8.1063	5.1146	7.5304	0.0121	0.3800	0.2555	0.4526	0.1008	0.2351	0.2588	0.0000	1,176.7289	1,176.7289	0.3588	8.1600e-003	1,186.2718
<b>Maximum</b>	<b>8.1063</b>	<b>20.9752</b>	<b>18.4999</b>	<b>0.0472</b>	<b>7.1944</b>	<b>0.9370</b>	<b>8.1313</b>	<b>3.4544</b>	<b>0.8620</b>	<b>4.3164</b>	<b>0.0000</b>	<b>4,740.0340</b>	<b>4,740.0340</b>	<b>0.7370</b>	<b>0.2334</b>	<b>4,821.8635</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.9555	20.9752	11.6894	0.0244	3.2989	0.9370	4.2359	1.5708	0.8620	2.4328	0.0000	2,366.3307	2,366.3307	0.7370	2.8300e-003	2,385.6007
2022	1.8742	17.5304	18.4999	0.0472	3.2989	0.7612	4.0601	1.5708	0.7003	2.2711	0.0000	4,740.0340	4,740.0340	0.7366	0.2334	4,821.8635
2023	8.1063	5.1146	7.5304	0.0121	0.3800	0.2555	0.4526	0.1008	0.2351	0.2588	0.0000	1,176.7289	1,176.7289	0.3588	8.1600e-003	1,186.2718
<b>Maximum</b>	<b>8.1063</b>	<b>20.9752</b>	<b>18.4999</b>	<b>0.0472</b>	<b>3.2989</b>	<b>0.9370</b>	<b>4.2359</b>	<b>1.5708</b>	<b>0.8620</b>	<b>2.4328</b>	<b>0.0000</b>	<b>4,740.0340</b>	<b>4,740.0340</b>	<b>0.7370</b>	<b>0.2334</b>	<b>4,821.8635</b>

## Markham Street - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.75	0.00	47.10	53.74	0.00	43.15	0.00	0.00	0.00	0.00	0.00	0.00

Markham Street - Riverside-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1886	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946
Energy	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268
Mobile	0.8650	18.2269	9.2695	0.0880	4.7734	0.2234	4.9967	1.3285	0.2134	1.5419		9,219.798 3	9,219.798 3	0.1103	1.0663	9,540.308 7
<b>Total</b>	<b>1.0541</b>	<b>18.2314</b>	<b>9.3144</b>	<b>0.0881</b>	<b>4.7734</b>	<b>0.2238</b>	<b>4.9972</b>	<b>1.3285</b>	<b>0.2139</b>	<b>1.5423</b>		<b>9,224.784 8</b>	<b>9,224.784 8</b>	<b>0.1106</b>	<b>1.0664</b>	<b>9,545.330 0</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	0.1886	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946
Energy	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268
Mobile	0.8650	18.2269	9.2695	0.0880	4.7734	0.2234	4.9967	1.3285	0.2134	1.5419		9,219.798 3	9,219.798 3	0.1103	1.0663	9,540.308 7
<b>Total</b>	<b>1.0541</b>	<b>18.2314</b>	<b>9.3144</b>	<b>0.0881</b>	<b>4.7734</b>	<b>0.2238</b>	<b>4.9972</b>	<b>1.3285</b>	<b>0.2139</b>	<b>1.5423</b>		<b>9,224.784 8</b>	<b>9,224.784 8</b>	<b>0.1106</b>	<b>1.0664</b>	<b>9,545.330 0</b>

Markham Street - Riverside-South Coast County, Winter

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/10/2021	12/16/2021	5	5	
2	Grading	Grading	12/24/2021	1/20/2022	5	20	
3	Building Construction	Building Construction	1/21/2022	5/12/2022	5	80	
4	Paving	Paving	12/9/2022	1/5/2023	5	20	
5	Architectural Coating	Architectural Coating	1/6/2023	1/26/2023	5	15	

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 9.29**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 705; Non-Residential Outdoor: 235; Striped Parking Area: 24,297 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	4.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

Markham Street - Riverside-South Coast County, Winter

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

Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	170.00	66.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area



Markham Street - Riverside-South Coast County, Winter

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

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.4209	14.7629	8.5583	0.0147		0.7560	0.7560		0.6955	0.6955		1,429.1523	1,429.1523	0.4622		1,440.7078
<b>Total</b>	<b>1.4209</b>	<b>14.7629</b>	<b>8.5583</b>	<b>0.0147</b>	<b>6.5523</b>	<b>0.7560</b>	<b>7.3083</b>	<b>3.3675</b>	<b>0.6955</b>	<b>4.0630</b>		<b>1,429.1523</b>	<b>1,429.1523</b>	<b>0.4622</b>		<b>1,440.7078</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0318	0.0241	0.2819	7.6000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		76.9619	76.9619	2.2600e-003	2.2700e-003	77.6938
<b>Total</b>	<b>0.0318</b>	<b>0.0241</b>	<b>0.2819</b>	<b>7.6000e-004</b>	<b>0.0894</b>	<b>4.8000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.4000e-004</b>	<b>0.0242</b>		<b>76.9619</b>	<b>76.9619</b>	<b>2.2600e-003</b>	<b>2.2700e-003</b>	<b>77.6938</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.2 Site Preparation - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	1.4209	14.7629	8.5583	0.0147		0.7560	0.7560		0.6955	0.6955	0.0000	1,429.1523	1,429.1523	0.4622		1,440.7078
<b>Total</b>	<b>1.4209</b>	<b>14.7629</b>	<b>8.5583</b>	<b>0.0147</b>	<b>2.9486</b>	<b>0.7560</b>	<b>3.7046</b>	<b>1.5154</b>	<b>0.6955</b>	<b>2.2109</b>	<b>0.0000</b>	<b>1,429.1523</b>	<b>1,429.1523</b>	<b>0.4622</b>		<b>1,440.7078</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0318	0.0241	0.2819	7.6000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		76.9619	76.9619	2.2600e-003	2.2700e-003	77.6938
<b>Total</b>	<b>0.0318</b>	<b>0.0241</b>	<b>0.2819</b>	<b>7.6000e-004</b>	<b>0.0894</b>	<b>4.8000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.4000e-004</b>	<b>0.0242</b>		<b>76.9619</b>	<b>76.9619</b>	<b>2.2600e-003</b>	<b>2.2700e-003</b>	<b>77.6938</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9158	20.9451	11.3370	0.0234		0.9364	0.9364		0.8615	0.8615		2,270.128 4	2,270.128 4	0.7342		2,288.483 5
<b>Total</b>	<b>1.9158</b>	<b>20.9451</b>	<b>11.3370</b>	<b>0.0234</b>	<b>7.0826</b>	<b>0.9364</b>	<b>8.0190</b>	<b>3.4247</b>	<b>0.8615</b>	<b>4.2862</b>		<b>2,270.128 4</b>	<b>2,270.128 4</b>	<b>0.7342</b>		<b>2,288.483 5</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0397	0.0301	0.3524	9.5000e-004	0.1118	5.9000e-004	0.1124	0.0296	5.5000e-004	0.0302		96.2024	96.2024	2.8300e-003	2.8300e-003	97.1172
<b>Total</b>	<b>0.0397</b>	<b>0.0301</b>	<b>0.3524</b>	<b>9.5000e-004</b>	<b>0.1118</b>	<b>5.9000e-004</b>	<b>0.1124</b>	<b>0.0296</b>	<b>5.5000e-004</b>	<b>0.0302</b>		<b>96.2024</b>	<b>96.2024</b>	<b>2.8300e-003</b>	<b>2.8300e-003</b>	<b>97.1172</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.3 Grading - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.9158	20.9451	11.3370	0.0234		0.9364	0.9364		0.8615	0.8615	0.0000	2,270.1284	2,270.1284	0.7342		2,288.4835
<b>Total</b>	<b>1.9158</b>	<b>20.9451</b>	<b>11.3370</b>	<b>0.0234</b>	<b>3.1872</b>	<b>0.9364</b>	<b>4.1235</b>	<b>1.5411</b>	<b>0.8615</b>	<b>2.4026</b>	<b>0.0000</b>	<b>2,270.1284</b>	<b>2,270.1284</b>	<b>0.7342</b>		<b>2,288.4835</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0397	0.0301	0.3524	9.5000e-004	0.1118	5.9000e-004	0.1124	0.0296	5.5000e-004	0.0302		96.2024	96.2024	2.8300e-003	2.8300e-003	97.1172
<b>Total</b>	<b>0.0397</b>	<b>0.0301</b>	<b>0.3524</b>	<b>9.5000e-004</b>	<b>0.1118</b>	<b>5.9000e-004</b>	<b>0.1124</b>	<b>0.0296</b>	<b>5.5000e-004</b>	<b>0.0302</b>		<b>96.2024</b>	<b>96.2024</b>	<b>2.8300e-003</b>	<b>2.8300e-003</b>	<b>97.1172</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.6192	17.5039	10.7968	0.0234		0.7606	0.7606		0.6998	0.6998		2,269.5685	2,269.5685	0.7340		2,287.9191
<b>Total</b>	<b>1.6192</b>	<b>17.5039</b>	<b>10.7968</b>	<b>0.0234</b>	<b>7.0826</b>	<b>0.7606</b>	<b>7.8432</b>	<b>3.4247</b>	<b>0.6998</b>	<b>4.1245</b>		<b>2,269.5685</b>	<b>2,269.5685</b>	<b>0.7340</b>		<b>2,287.9191</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0368	0.0265	0.3231	9.2000e-004	0.1118	5.6000e-004	0.1123	0.0296	5.1000e-004	0.0302		93.6174	93.6174	2.5400e-003	2.6000e-003	94.4564
<b>Total</b>	<b>0.0368</b>	<b>0.0265</b>	<b>0.3231</b>	<b>9.2000e-004</b>	<b>0.1118</b>	<b>5.6000e-004</b>	<b>0.1123</b>	<b>0.0296</b>	<b>5.1000e-004</b>	<b>0.0302</b>		<b>93.6174</b>	<b>93.6174</b>	<b>2.5400e-003</b>	<b>2.6000e-003</b>	<b>94.4564</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.3 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.6192	17.5039	10.7968	0.0234		0.7606	0.7606		0.6998	0.6998	0.0000	2,269.5685	2,269.5685	0.7340		2,287.9191
<b>Total</b>	<b>1.6192</b>	<b>17.5039</b>	<b>10.7968</b>	<b>0.0234</b>	<b>3.1872</b>	<b>0.7606</b>	<b>3.9478</b>	<b>1.5411</b>	<b>0.6998</b>	<b>2.2409</b>	<b>0.0000</b>	<b>2,269.5685</b>	<b>2,269.5685</b>	<b>0.7340</b>		<b>2,287.9191</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0368	0.0265	0.3231	9.2000e-004	0.1118	5.6000e-004	0.1123	0.0296	5.1000e-004	0.0302		93.6174	93.6174	2.5400e-003	2.6000e-003	94.4564
<b>Total</b>	<b>0.0368</b>	<b>0.0265</b>	<b>0.3231</b>	<b>9.2000e-004</b>	<b>0.1118</b>	<b>5.6000e-004</b>	<b>0.1123</b>	<b>0.0296</b>	<b>5.1000e-004</b>	<b>0.0302</b>		<b>93.6174</b>	<b>93.6174</b>	<b>2.5400e-003</b>	<b>2.6000e-003</b>	<b>94.4564</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1455	11.1175	11.9998	0.0195		0.6011	0.6011		0.5648	0.5648		1,873.7104	1,873.7104	0.4341		1,884.5628
<b>Total</b>	<b>1.1455</b>	<b>11.1175</b>	<b>11.9998</b>	<b>0.0195</b>		<b>0.6011</b>	<b>0.6011</b>		<b>0.5648</b>	<b>0.5648</b>		<b>1,873.7104</b>	<b>1,873.7104</b>	<b>0.4341</b>		<b>1,884.5628</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1028	2.9402	1.0077	0.0120	0.4227	0.0403	0.4631	0.1217	0.0386	0.1603		1,274.8281	1,274.8281	0.0133	0.1892	1,331.5414
Worker	0.6258	0.4507	5.4925	0.0156	1.9002	9.4700e-003	1.9097	0.5039	8.7200e-003	0.5127		1,591.4955	1,591.4955	0.0432	0.0442	1,605.7594
<b>Total</b>	<b>0.7286</b>	<b>3.3909</b>	<b>6.5001</b>	<b>0.0277</b>	<b>2.3229</b>	<b>0.0498</b>	<b>2.3728</b>	<b>0.6257</b>	<b>0.0473</b>	<b>0.6730</b>		<b>2,866.3236</b>	<b>2,866.3236</b>	<b>0.0565</b>	<b>0.2334</b>	<b>2,937.3007</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.4 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1455	11.1175	11.9998	0.0195		0.6011	0.6011		0.5648	0.5648	0.0000	1,873.710 4	1,873.710 4	0.4341		1,884.562 8
<b>Total</b>	<b>1.1455</b>	<b>11.1175</b>	<b>11.9998</b>	<b>0.0195</b>		<b>0.6011</b>	<b>0.6011</b>		<b>0.5648</b>	<b>0.5648</b>	<b>0.0000</b>	<b>1,873.710 4</b>	<b>1,873.710 4</b>	<b>0.4341</b>		<b>1,884.562 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1028	2.9402	1.0077	0.0120	0.4227	0.0403	0.4631	0.1217	0.0386	0.1603		1,274.828 1	1,274.828 1	0.0133	0.1892	1,331.541 4
Worker	0.6258	0.4507	5.4925	0.0156	1.9002	9.4700e-003	1.9097	0.5039	8.7200e-003	0.5127		1,591.495 5	1,591.495 5	0.0432	0.0442	1,605.759 4
<b>Total</b>	<b>0.7286</b>	<b>3.3909</b>	<b>6.5001</b>	<b>0.0277</b>	<b>2.3229</b>	<b>0.0498</b>	<b>2.3728</b>	<b>0.6257</b>	<b>0.0473</b>	<b>0.6730</b>		<b>2,866.323 6</b>	<b>2,866.323 6</b>	<b>0.0565</b>	<b>0.2334</b>	<b>2,937.300 7</b>



Markham Street - Riverside-South Coast County, Winter

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

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.830 2	1,103.830 2	0.3570		1,112.755 2
Paving	1.0690					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6204</b>	<b>5.5624</b>	<b>7.2902</b>	<b>0.0114</b>		<b>0.2840</b>	<b>0.2840</b>		<b>0.2612</b>	<b>0.2612</b>		<b>1,103.830 2</b>	<b>1,103.830 2</b>	<b>0.3570</b>		<b>1,112.755 2</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0295	0.0212	0.2585	7.4000e-004	0.0894	4.5000e-004	0.0899	0.0237	4.1000e-004	0.0241		74.8939	74.8939	2.0300e-003	2.0800e-003	75.5652
<b>Total</b>	<b>0.0295</b>	<b>0.0212</b>	<b>0.2585</b>	<b>7.4000e-004</b>	<b>0.0894</b>	<b>4.5000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.1000e-004</b>	<b>0.0241</b>		<b>74.8939</b>	<b>74.8939</b>	<b>2.0300e-003</b>	<b>2.0800e-003</b>	<b>75.5652</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.5 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612	0.0000	1,103.830 2	1,103.830 2	0.3570		1,112.755 2
Paving	1.0690					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6204</b>	<b>5.5624</b>	<b>7.2902</b>	<b>0.0114</b>		<b>0.2840</b>	<b>0.2840</b>		<b>0.2612</b>	<b>0.2612</b>	<b>0.0000</b>	<b>1,103.830 2</b>	<b>1,103.830 2</b>	<b>0.3570</b>		<b>1,112.755 2</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0295	0.0212	0.2585	7.4000e-004	0.0894	4.5000e-004	0.0899	0.0237	4.1000e-004	0.0241		74.8939	74.8939	2.0300e-003	2.0800e-003	75.5652
<b>Total</b>	<b>0.0295</b>	<b>0.0212</b>	<b>0.2585</b>	<b>7.4000e-004</b>	<b>0.0894</b>	<b>4.5000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.1000e-004</b>	<b>0.0241</b>		<b>74.8939</b>	<b>74.8939</b>	<b>2.0300e-003</b>	<b>2.0800e-003</b>	<b>75.5652</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5164	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347		1,103.7921	1,103.7921	0.3570		1,112.7168
Paving	1.0690					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5853</b>	<b>5.0958</b>	<b>7.2921</b>	<b>0.0114</b>		<b>0.2551</b>	<b>0.2551</b>		<b>0.2347</b>	<b>0.2347</b>		<b>1,103.7921</b>	<b>1,103.7921</b>	<b>0.3570</b>		<b>1,112.7168</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0274	0.0187	0.2383	7.1000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.9000e-004	0.0241		72.9368	72.9368	1.8300e-003	1.9200e-003	73.5550
<b>Total</b>	<b>0.0274</b>	<b>0.0187</b>	<b>0.2383</b>	<b>7.1000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.9000e-004</b>	<b>0.0241</b>		<b>72.9368</b>	<b>72.9368</b>	<b>1.8300e-003</b>	<b>1.9200e-003</b>	<b>73.5550</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.5 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5164	5.0958	7.2921	0.0114		0.2551	0.2551		0.2347	0.2347	0.0000	1,103.792 1	1,103.792 1	0.3570		1,112.716 8
Paving	1.0690					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5853</b>	<b>5.0958</b>	<b>7.2921</b>	<b>0.0114</b>		<b>0.2551</b>	<b>0.2551</b>		<b>0.2347</b>	<b>0.2347</b>	<b>0.0000</b>	<b>1,103.792 1</b>	<b>1,103.792 1</b>	<b>0.3570</b>		<b>1,112.716 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0274	0.0187	0.2383	7.1000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.9000e-004	0.0241		72.9368	72.9368	1.8300e-003	1.9200e-003	73.5550
<b>Total</b>	<b>0.0274</b>	<b>0.0187</b>	<b>0.2383</b>	<b>7.1000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.9000e-004</b>	<b>0.0241</b>		<b>72.9368</b>	<b>72.9368</b>	<b>1.8300e-003</b>	<b>1.9200e-003</b>	<b>73.5550</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.7982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>7.9899</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1164	0.0796	1.0128	3.0300e-003	0.3800	1.7800e-003	0.3818	0.1008	1.6400e-003	0.1024		309.9815	309.9815	7.7900e-003	8.1600e-003	312.6088
<b>Total</b>	<b>0.1164</b>	<b>0.0796</b>	<b>1.0128</b>	<b>3.0300e-003</b>	<b>0.3800</b>	<b>1.7800e-003</b>	<b>0.3818</b>	<b>0.1008</b>	<b>1.6400e-003</b>	<b>0.1024</b>		<b>309.9815</b>	<b>309.9815</b>	<b>7.7900e-003</b>	<b>8.1600e-003</b>	<b>312.6088</b>

Markham Street - Riverside-South Coast County, Winter

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.7982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>7.9899</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1164	0.0796	1.0128	3.0300e-003	0.3800	1.7800e-003	0.3818	0.1008	1.6400e-003	0.1024		309.9815	309.9815	7.7900e-003	8.1600e-003	312.6088
<b>Total</b>	<b>0.1164</b>	<b>0.0796</b>	<b>1.0128</b>	<b>3.0300e-003</b>	<b>0.3800</b>	<b>1.7800e-003</b>	<b>0.3818</b>	<b>0.1008</b>	<b>1.6400e-003</b>	<b>0.1024</b>		<b>309.9815</b>	<b>309.9815</b>	<b>7.7900e-003</b>	<b>8.1600e-003</b>	<b>312.6088</b>

Markham Street - Riverside-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8650	18.2269	9.2695	0.0880	4.7734	0.2234	4.9967	1.3285	0.2134	1.5419		9,219.798 3	9,219.798 3	0.1103	1.0663	9,540.308 7
Unmitigated	0.8650	18.2269	9.2695	0.0880	4.7734	0.2234	4.9967	1.3285	0.2134	1.5419		9,219.798 3	9,219.798 3	0.1103	1.0663	9,540.308 7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	463.98	463.98	463.98	2,054,650	2,054,650
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	463.98	463.98	463.98	2,054,650	2,054,650

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Markham Street - Riverside-South Coast County, Winter

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.320000	0.000000	0.000000	0.000000	0.310000	0.000000	0.150000	0.220000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Other Non-Asphalt Surfaces	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268
NaturalGas Unmitigated	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268



Markham Street - Riverside-South Coast County, Winter

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

**5.2 Energy by Land Use - Natural Gas**

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	41.6304	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5000e-004</b>	<b>4.0800e-003</b>	<b>3.4300e-003</b>	<b>2.0000e-005</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>		<b>4.8977</b>	<b>4.8977</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>4.9268</b>

Markham Street - Riverside-South Coast County, Winter

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

**5.2 Energy by Land Use - Natural Gas**

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.0416304	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8977	4.8977	9.0000e-005	9.0000e-005	4.9268
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5000e-004</b>	<b>4.0800e-003</b>	<b>3.4300e-003</b>	<b>2.0000e-005</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>		<b>4.8977</b>	<b>4.8977</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>4.9268</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Markham Street - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1886	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946
Unmitigated	0.1886	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946

**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	0.0321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1527					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8600e-003	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946
<b>Total</b>	<b>0.1887</b>	<b>3.8000e-004</b>	<b>0.0415</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0887</b>	<b>0.0887</b>	<b>2.3000e-004</b>		<b>0.0946</b>

Markham Street - Riverside-South Coast County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1527					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8600e-003	3.8000e-004	0.0415	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0887	0.0887	2.3000e-004		0.0946
<b>Total</b>	<b>0.1887</b>	<b>3.8000e-004</b>	<b>0.0415</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0887</b>	<b>0.0887</b>	<b>2.3000e-004</b>		<b>0.0946</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Markham Street - Riverside-South Coast County, Winter

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