

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**McCall Boulevard Widening Project  
Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	22.31	Acre	22.31	971,823.60	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>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use -
- Construction Phase - Construction phasing per Roadway Construction Emissions Model Defaults
- Off-road Equipment - Equipment per Roadway Construction Emissions Model Defaults
- Off-road Equipment - Ibid
- Off-road Equipment - Ibid
- Off-road Equipment - Ibid
- Grading - 22-acre site includes existing roadway pavement.
- Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40

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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	370.00	79.00
tblConstructionPhase	NumDays	35.00	119.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	10.00	26.00
tblGrading	AcresOfGrading	654.50	26.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

**2.0 Emissions Summary**

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.7687	77.3534	69.1565	0.1659	5.5789	3.1198	7.7143	1.5027	2.9048	3.5300	0.0000	16,355.61 43	16,355.61 43	4.1746	0.5310	16,569.37 45
2024	6.3613	52.2048	64.3352	0.1642	5.5789	1.9240	7.5029	1.5027	1.8250	3.3277	0.0000	16,178.92 26	16,178.92 26	2.2029	0.5169	16,388.02 46
<b>Maximum</b>	<b>7.7687</b>	<b>77.3534</b>	<b>69.1565</b>	<b>0.1659</b>	<b>5.5789</b>	<b>3.1198</b>	<b>7.7143</b>	<b>1.5027</b>	<b>2.9048</b>	<b>3.5300</b>	<b>0.0000</b>	<b>16,355.61 43</b>	<b>16,355.61 43</b>	<b>4.1746</b>	<b>0.5310</b>	<b>16,569.37 45</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					
2023	7.7687	77.3534	69.1565	0.1659	3.7029	3.1198	5.8383	1.0422	2.9048	3.0695	0.0000	16,355.61 43	16,355.61 43	4.1746	0.5310	16,569.37 45
2024	6.3613	52.2048	64.3352	0.1642	3.7029	1.9240	5.6269	1.0422	1.8250	2.8672	0.0000	16,178.92 26	16,178.92 26	2.2029	0.5169	16,388.02 46
<b>Maximum</b>	<b>7.7687</b>	<b>77.3534</b>	<b>69.1565</b>	<b>0.1659</b>	<b>3.7029</b>	<b>3.1198</b>	<b>5.8383</b>	<b>1.0422</b>	<b>2.9048</b>	<b>3.0695</b>	<b>0.0000</b>	<b>16,355.61 43</b>	<b>16,355.61 43</b>	<b>4.1746</b>	<b>0.5310</b>	<b>16,569.37 45</b>



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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4185	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.4185</b>	<b>2.0000e-005</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.8800e-003</b>	<b>4.8800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.2000e-003</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	0.4185	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.4185</b>	<b>2.0000e-005</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.8800e-003</b>	<b>4.8800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.2000e-003</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clearing & Grubbing	Site Preparation	6/5/2023	7/10/2023	5	26	
2	Grading & Excavation	Grading	7/11/2023	12/22/2023	5	119	
3	Drainage-Utilities-Subgrade	Building Construction	12/23/2023	4/11/2024	5	79	
4	Paving	Paving	4/12/2024	6/6/2024	5	40	

**Acres of Grading (Site Preparation Phase): 26**

**Acres of Grading (Grading Phase): 26**

**Acres of Paving: 22.31**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clearing & Grubbing	Crawler Tractors	2	8.00	212	0.43
Clearing & Grubbing	Excavators	3	8.00	158	0.38
Clearing & Grubbing	Rubber Tired Dozers	0	8.00	247	0.40
Clearing & Grubbing	Signal Boards	2	8.00	6	0.82
Clearing & Grubbing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading & Excavation	Crawler Tractors	2	8.00	212	0.43
Grading & Excavation	Excavators	4	8.00	158	0.38

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Grading & Excavation	Graders	3	8.00	187	0.41
Grading & Excavation	Pumps	3	8.00	84	0.74
Grading & Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Grading & Excavation	Rubber Tired Loaders	2	8.00	203	0.36
Grading & Excavation	Scrapers	3	8.00	367	0.48
Grading & Excavation	Signal Boards	2	8.00	6	0.82
Grading & Excavation	Tractors/Loaders/Backhoes	5	8.00	97	0.37
Drainage-Utilities-Subgrade	Air Compressors	2	8.00	78	0.48
Drainage-Utilities-Subgrade	Cranes	0	7.00	231	0.29
Drainage-Utilities-Subgrade	Forklifts	0	8.00	89	0.20
Drainage-Utilities-Subgrade	Generator Sets	2	8.00	84	0.74
Drainage-Utilities-Subgrade	Graders	2	8.00	187	0.41
Drainage-Utilities-Subgrade	Plate Compactors	2	8.00	8	0.43
Drainage-Utilities-Subgrade	Pumps	2	8.00	84	0.74
Drainage-Utilities-Subgrade	Rough Terrain Forklifts	2	8.00	100	0.40
Drainage-Utilities-Subgrade	Scrapers	2	8.00	367	0.48
Drainage-Utilities-Subgrade	Signal Boards	2	8.00	6	0.82
Drainage-Utilities-Subgrade	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Drainage-Utilities-Subgrade	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	3	8.00	80	0.38
Paving	Signal Boards	2	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**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
Clearing & Grubbing	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading & Excavation	24	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage-Utilities-Subgrade	20	408.00	159.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	13	33.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Clearing & Grubbing - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.5691	15.6139	14.8627	0.0326		0.6528	0.6528		0.6028	0.6028		3,115.4875	3,115.4875	0.9860		3,140.1363
<b>Total</b>	<b>1.5691</b>	<b>15.6139</b>	<b>14.8627</b>	<b>0.0326</b>	<b>1.0605</b>	<b>0.6528</b>	<b>1.7133</b>	<b>0.1145</b>	<b>0.6028</b>	<b>0.7173</b>		<b>3,115.4875</b>	<b>3,115.4875</b>	<b>0.9860</b>		<b>3,140.1363</b>



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**3.2 Clearing & Grubbing - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0657	0.0406	0.6586	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		178.8733	178.8733	4.1400e-003	4.2200e-003	180.2350
<b>Total</b>	<b>0.0657</b>	<b>0.0406</b>	<b>0.6586</b>	<b>1.7700e-003</b>	<b>0.2012</b>	<b>9.4000e-004</b>	<b>0.2021</b>	<b>0.0534</b>	<b>8.7000e-004</b>	<b>0.0542</b>		<b>178.8733</b>	<b>178.8733</b>	<b>4.1400e-003</b>	<b>4.2200e-003</b>	<b>180.2350</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4136	0.0000	0.4136	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	1.5691	15.6139	14.8627	0.0326		0.6528	0.6528		0.6028	0.6028	0.0000	3,115.4875	3,115.4875	0.9860		3,140.1363
<b>Total</b>	<b>1.5691</b>	<b>15.6139</b>	<b>14.8627</b>	<b>0.0326</b>	<b>0.4136</b>	<b>0.6528</b>	<b>1.0664</b>	<b>0.0447</b>	<b>0.6028</b>	<b>0.6475</b>	<b>0.0000</b>	<b>3,115.4875</b>	<b>3,115.4875</b>	<b>0.9860</b>		<b>3,140.1363</b>

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**3.2 Clearing & Grubbing - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0657	0.0406	0.6586	1.7700e-003	0.1312	9.4000e-004	0.1322	0.0362	8.7000e-004	0.0371		178.8733	178.8733	4.1400e-003	4.2200e-003	180.2350
<b>Total</b>	<b>0.0657</b>	<b>0.0406</b>	<b>0.6586</b>	<b>1.7700e-003</b>	<b>0.1312</b>	<b>9.4000e-004</b>	<b>0.1322</b>	<b>0.0362</b>	<b>8.7000e-004</b>	<b>0.0371</b>		<b>178.8733</b>	<b>178.8733</b>	<b>4.1400e-003</b>	<b>4.2200e-003</b>	<b>180.2350</b>

**3.3 Grading & Excavation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2317	0.0000	0.2317	0.0250	0.0000	0.0250			0.0000			0.0000
Off-Road	7.5496	77.2181	66.9613	0.1510		3.1167	3.1167		2.9019	2.9019		14,536.6534	14,536.6534	4.1608		14,640.6733
<b>Total</b>	<b>7.5496</b>	<b>77.2181</b>	<b>66.9613</b>	<b>0.1510</b>	<b>0.2317</b>	<b>3.1167</b>	<b>3.3484</b>	<b>0.0250</b>	<b>2.9019</b>	<b>2.9269</b>		<b>14,536.6534</b>	<b>14,536.6534</b>	<b>4.1608</b>		<b>14,640.6733</b>

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**3.3 Grading & Excavation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2191	0.1354	2.1952	5.9000e-003	0.6707	3.1400e-003	0.6738	0.1779	2.8900e-003	0.1808		596.2442	596.2442	0.0138	0.0141	600.7834
<b>Total</b>	<b>0.2191</b>	<b>0.1354</b>	<b>2.1952</b>	<b>5.9000e-003</b>	<b>0.6707</b>	<b>3.1400e-003</b>	<b>0.6738</b>	<b>0.1779</b>	<b>2.8900e-003</b>	<b>0.1808</b>		<b>596.2442</b>	<b>596.2442</b>	<b>0.0138</b>	<b>0.0141</b>	<b>600.7834</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0904	0.0000	0.0904	9.7600e-003	0.0000	9.7600e-003			0.0000			0.0000
Off-Road	7.5496	77.2181	66.9613	0.1510		3.1167	3.1167		2.9019	2.9019	0.0000	14,536.6534	14,536.6534	4.1608		14,640.6733
<b>Total</b>	<b>7.5496</b>	<b>77.2181</b>	<b>66.9613</b>	<b>0.1510</b>	<b>0.0904</b>	<b>3.1167</b>	<b>3.2070</b>	<b>9.7600e-003</b>	<b>2.9019</b>	<b>2.9117</b>	<b>0.0000</b>	<b>14,536.6534</b>	<b>14,536.6534</b>	<b>4.1608</b>		<b>14,640.6733</b>

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**3.3 Grading & Excavation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2191	0.1354	2.1952	5.9000e-003	0.4374	3.1400e-003	0.4406	0.1206	2.8900e-003	0.1235		596.2442	596.2442	0.0138	0.0141	600.7834
<b>Total</b>	<b>0.2191</b>	<b>0.1354</b>	<b>2.1952</b>	<b>5.9000e-003</b>	<b>0.4374</b>	<b>3.1400e-003</b>	<b>0.4406</b>	<b>0.1206</b>	<b>2.8900e-003</b>	<b>0.1235</b>		<b>596.2442</b>	<b>596.2442</b>	<b>0.0138</b>	<b>0.0141</b>	<b>600.7834</b>

**3.4 Drainage-Utilities-Subgrade - 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	5.0551	49.6795	48.6854	0.0980		2.0689	2.0689		1.9644	1.9644		9,355.3448	9,355.3448	2.0969		9,407.7670
<b>Total</b>	<b>5.0551</b>	<b>49.6795</b>	<b>48.6854</b>	<b>0.0980</b>		<b>2.0689</b>	<b>2.0689</b>		<b>1.9644</b>	<b>1.9644</b>		<b>9,355.3448</b>	<b>9,355.3448</b>	<b>2.0969</b>		<b>9,407.7670</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**3.4 Drainage-Utilities-Subgrade - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1792	5.1946	2.1389	0.0278	1.0184	0.0452	1.0636	0.2932	0.0433	0.3365		2,945.808 9	2,945.808 9	0.0300	0.4353	3,076.280 0
Worker	1.4897	0.9205	14.9276	0.0401	4.5605	0.0213	4.5818	1.2095	0.0196	1.2291		4,054.460 6	4,054.460 6	0.0937	0.0957	4,085.327 4
<b>Total</b>	<b>1.6689</b>	<b>6.1151</b>	<b>17.0665</b>	<b>0.0679</b>	<b>5.5789</b>	<b>0.0666</b>	<b>5.6455</b>	<b>1.5027</b>	<b>0.0629</b>	<b>1.5656</b>		<b>7,000.269 5</b>	<b>7,000.269 5</b>	<b>0.1238</b>	<b>0.5310</b>	<b>7,161.607 4</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.0551	49.6795	48.6854	0.0980		2.0689	2.0689		1.9644	1.9644	0.0000	9,355.344 8	9,355.344 8	2.0969		9,407.767 0
<b>Total</b>	<b>5.0551</b>	<b>49.6795</b>	<b>48.6854</b>	<b>0.0980</b>		<b>2.0689</b>	<b>2.0689</b>		<b>1.9644</b>	<b>1.9644</b>	<b>0.0000</b>	<b>9,355.344 8</b>	<b>9,355.344 8</b>	<b>2.0969</b>		<b>9,407.767 0</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**3.4 Drainage-Utilities-Subgrade - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1792	5.1946	2.1389	0.0278	0.7283	0.0452	0.7735	0.2220	0.0433	0.2653		2,945.808 9	2,945.808 9	0.0300	0.4353	3,076.280 0
Worker	1.4897	0.9205	14.9276	0.0401	2.9746	0.0213	2.9959	0.8202	0.0196	0.8398		4,054.460 6	4,054.460 6	0.0937	0.0957	4,085.327 4
<b>Total</b>	<b>1.6689</b>	<b>6.1151</b>	<b>17.0665</b>	<b>0.0679</b>	<b>3.7029</b>	<b>0.0666</b>	<b>3.7695</b>	<b>1.0422</b>	<b>0.0629</b>	<b>1.1051</b>		<b>7,000.269 5</b>	<b>7,000.269 5</b>	<b>0.1238</b>	<b>0.5310</b>	<b>7,161.607 4</b>

**3.4 Drainage-Utilities-Subgrade - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.7966	46.1899	48.2669	0.0980		1.8587	1.8587		1.7633	1.7633		9,353.119 2	9,353.119 2	2.0870		9,405.293 0
<b>Total</b>	<b>4.7966</b>	<b>46.1899</b>	<b>48.2669</b>	<b>0.0980</b>		<b>1.8587</b>	<b>1.8587</b>		<b>1.7633</b>	<b>1.7633</b>		<b>9,353.119 2</b>	<b>9,353.119 2</b>	<b>2.0870</b>		<b>9,405.293 0</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**3.4 Drainage-Utilities-Subgrade - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1764	5.1951	2.1144	0.0273	1.0184	0.0449	1.0633	0.2932	0.0430	0.3362		2,900.407 7	2,900.407 7	0.0311	0.4280	3,028.713 5
Worker	1.3883	0.8199	13.9539	0.0388	4.5605	0.0203	4.5808	1.2095	0.0187	1.2282		3,925.395 7	3,925.395 7	0.0849	0.0889	3,954.018 2
<b>Total</b>	<b>1.5647</b>	<b>6.0149</b>	<b>16.0683</b>	<b>0.0662</b>	<b>5.5789</b>	<b>0.0653</b>	<b>5.6441</b>	<b>1.5027</b>	<b>0.0617</b>	<b>1.5644</b>		<b>6,825.803 4</b>	<b>6,825.803 4</b>	<b>0.1160</b>	<b>0.5169</b>	<b>6,982.731 7</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.7966	46.1899	48.2669	0.0980		1.8587	1.8587		1.7633	1.7633	0.0000	9,353.119 2	9,353.119 2	2.0870		9,405.293 0
<b>Total</b>	<b>4.7966</b>	<b>46.1899</b>	<b>48.2669</b>	<b>0.0980</b>		<b>1.8587</b>	<b>1.8587</b>		<b>1.7633</b>	<b>1.7633</b>	<b>0.0000</b>	<b>9,353.119 2</b>	<b>9,353.119 2</b>	<b>2.0870</b>		<b>9,405.293 0</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**3.4 Drainage-Utilities-Subgrade - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1764	5.1951	2.1144	0.0273	0.7283	0.0449	0.7732	0.2220	0.0430	0.2650		2,900.407 7	2,900.407 7	0.0311	0.4280	3,028.713 5
Worker	1.3883	0.8199	13.9539	0.0388	2.9746	0.0203	2.9949	0.8202	0.0187	0.8389		3,925.395 7	3,925.395 7	0.0849	0.0889	3,954.018 2
<b>Total</b>	<b>1.5647</b>	<b>6.0149</b>	<b>16.0683</b>	<b>0.0662</b>	<b>3.7029</b>	<b>0.0653</b>	<b>3.7681</b>	<b>1.0422</b>	<b>0.0617</b>	<b>1.1039</b>		<b>6,825.803 4</b>	<b>6,825.803 4</b>	<b>0.1160</b>	<b>0.5169</b>	<b>6,982.731 7</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8243	17.5607	26.0203	0.0393		0.8430	0.8430		0.7778	0.7778		3,767.387 0	3,767.387 0	1.1968		3,797.306 7
Paving	1.4613					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>3.2856</b>	<b>17.5607</b>	<b>26.0203</b>	<b>0.0393</b>		<b>0.8430</b>	<b>0.8430</b>		<b>0.7778</b>	<b>0.7778</b>		<b>3,767.387 0</b>	<b>3,767.387 0</b>	<b>1.1968</b>		<b>3,797.306 7</b>



McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1123	0.0663	1.1286	3.1400e-003	0.3689	1.6500e-003	0.3705	0.0978	1.5100e-003	0.0993		317.4952	317.4952	6.8700e-003	7.1900e-003	319.8103
<b>Total</b>	<b>0.1123</b>	<b>0.0663</b>	<b>1.1286</b>	<b>3.1400e-003</b>	<b>0.3689</b>	<b>1.6500e-003</b>	<b>0.3705</b>	<b>0.0978</b>	<b>1.5100e-003</b>	<b>0.0993</b>		<b>317.4952</b>	<b>317.4952</b>	<b>6.8700e-003</b>	<b>7.1900e-003</b>	<b>319.8103</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8243	17.5607	26.0203	0.0393		0.8430	0.8430		0.7778	0.7778	0.0000	3,767.3870	3,767.3870	1.1968		3,797.3067
Paving	1.4613					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>3.2856</b>	<b>17.5607</b>	<b>26.0203</b>	<b>0.0393</b>		<b>0.8430</b>	<b>0.8430</b>		<b>0.7778</b>	<b>0.7778</b>	<b>0.0000</b>	<b>3,767.3870</b>	<b>3,767.3870</b>	<b>1.1968</b>		<b>3,797.3067</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1123	0.0663	1.1286	3.1400e-003	0.2406	1.6500e-003	0.2422	0.0663	1.5100e-003	0.0679		317.4952	317.4952	6.8700e-003	7.1900e-003	319.8103
<b>Total</b>	<b>0.1123</b>	<b>0.0663</b>	<b>1.1286</b>	<b>3.1400e-003</b>	<b>0.2406</b>	<b>1.6500e-003</b>	<b>0.2422</b>	<b>0.0663</b>	<b>1.5100e-003</b>	<b>0.0679</b>		<b>317.4952</b>	<b>317.4952</b>	<b>6.8700e-003</b>	<b>7.1900e-003</b>	<b>319.8103</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	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
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

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

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4185	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Unmitigated	0.4185	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0740					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.8800e-003	4.8800e-003	1.0000e-005	5.2000e-003
<b>Total</b>	<b>0.4185</b>	<b>2.0000e-005</b>	<b>2.2700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>4.8800e-003</b>	<b>4.8800e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-003</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0740					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.8800e-003	4.8800e-003	1.0000e-005	5.2000e-003
<b>Total</b>	<b>0.4185</b>	<b>2.0000e-005</b>	<b>2.2700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>4.8800e-003</b>	<b>4.8800e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

McCall Boulevard Widening Project - Riverside-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**McCall Boulevard Widening Project  
Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	22.31	Acre	22.31	971,823.60	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>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use -
- Construction Phase - Construction phasing per Roadway Construction Emissions Model Defaults
- Off-road Equipment - Equipment per Roadway Construction Emissions Model Defaults
- Off-road Equipment - Ibid
- Off-road Equipment - Ibid
- Off-road Equipment - Ibid
- Grading - 22-acre site includes existing roadway pavement.
- Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	370.00	79.00
tblConstructionPhase	NumDays	35.00	119.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	10.00	26.00
tblGrading	AcresOfGrading	654.50	26.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

**2.0 Emissions Summary**

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McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.7549	77.3585	68.7439	0.1622	5.5789	3.1198	7.7145	1.5027	2.9048	3.5301	0.0000	15,982.19 22	15,982.19 22	4.1745	0.5347	16,197.03 06
2024	6.2650	52.5500	61.7893	0.1606	5.5789	1.9242	7.5030	1.5027	1.8252	3.3279	0.0000	15,818.23 59	15,818.23 59	2.2022	0.5204	16,028.35 61
<b>Maximum</b>	<b>7.7549</b>	<b>77.3585</b>	<b>68.7439</b>	<b>0.1622</b>	<b>5.5789</b>	<b>3.1198</b>	<b>7.7145</b>	<b>1.5027</b>	<b>2.9048</b>	<b>3.5301</b>	<b>0.0000</b>	<b>15,982.19 22</b>	<b>15,982.19 22</b>	<b>4.1745</b>	<b>0.5347</b>	<b>16,197.03 06</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					
2023	7.7549	77.3585	68.7439	0.1622	3.7029	3.1198	5.8385	1.0422	2.9048	3.0697	0.0000	15,982.19 22	15,982.19 22	4.1745	0.5347	16,197.03 06
2024	6.2650	52.5500	61.7893	0.1606	3.7029	1.9242	5.6270	1.0422	1.8252	2.8674	0.0000	15,818.23 59	15,818.23 59	2.2022	0.5204	16,028.35 61
<b>Maximum</b>	<b>7.7549</b>	<b>77.3585</b>	<b>68.7439</b>	<b>0.1622</b>	<b>3.7029</b>	<b>3.1198</b>	<b>5.8385</b>	<b>1.0422</b>	<b>2.9048</b>	<b>3.0697</b>	<b>0.0000</b>	<b>15,982.19 22</b>	<b>15,982.19 22</b>	<b>4.1745</b>	<b>0.5347</b>	<b>16,197.03 06</b>

## McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	33.63	0.00	24.66	30.64	0.00	13.43	0.00	0.00	0.00	0.00	0.00	0.00

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4185	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.4185</b>	<b>2.0000e-005</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.8800e-003</b>	<b>4.8800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.2000e-003</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	0.4185	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.4185</b>	<b>2.0000e-005</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.8800e-003</b>	<b>4.8800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.2000e-003</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Clearing & Grubbing	Site Preparation	6/5/2023	7/10/2023	5	26	
2	Grading & Excavation	Grading	7/11/2023	12/22/2023	5	119	
3	Drainage-Utilities-Subgrade	Building Construction	12/23/2023	4/11/2024	5	79	
4	Paving	Paving	4/12/2024	6/6/2024	5	40	

**Acres of Grading (Site Preparation Phase): 26**

**Acres of Grading (Grading Phase): 26**

**Acres of Paving: 22.31**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clearing & Grubbing	Crawler Tractors	2	8.00	212	0.43
Clearing & Grubbing	Excavators	3	8.00	158	0.38
Clearing & Grubbing	Rubber Tired Dozers	0	8.00	247	0.40
Clearing & Grubbing	Signal Boards	2	8.00	6	0.82
Clearing & Grubbing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading & Excavation	Crawler Tractors	2	8.00	212	0.43
Grading & Excavation	Excavators	4	8.00	158	0.38

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

Grading & Excavation	Graders	3	8.00	187	0.41
Grading & Excavation	Pumps	3	8.00	84	0.74
Grading & Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Grading & Excavation	Rubber Tired Loaders	2	8.00	203	0.36
Grading & Excavation	Scrapers	3	8.00	367	0.48
Grading & Excavation	Signal Boards	2	8.00	6	0.82
Grading & Excavation	Tractors/Loaders/Backhoes	5	8.00	97	0.37
Drainage-Utilities-Subgrade	Air Compressors	2	8.00	78	0.48
Drainage-Utilities-Subgrade	Cranes	0	7.00	231	0.29
Drainage-Utilities-Subgrade	Forklifts	0	8.00	89	0.20
Drainage-Utilities-Subgrade	Generator Sets	2	8.00	84	0.74
Drainage-Utilities-Subgrade	Graders	2	8.00	187	0.41
Drainage-Utilities-Subgrade	Plate Compactors	2	8.00	8	0.43
Drainage-Utilities-Subgrade	Pumps	2	8.00	84	0.74
Drainage-Utilities-Subgrade	Rough Terrain Forklifts	2	8.00	100	0.40
Drainage-Utilities-Subgrade	Scrapers	2	8.00	367	0.48
Drainage-Utilities-Subgrade	Signal Boards	2	8.00	6	0.82
Drainage-Utilities-Subgrade	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Drainage-Utilities-Subgrade	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	3	8.00	80	0.38
Paving	Signal Boards	2	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**Trips and VMT**

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Clearing & Grubbing	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading & Excavation	24	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage-Utilities-Subgrade	20	408.00	159.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	13	33.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Clearing & Grubbing - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.5691	15.6139	14.8627	0.0326		0.6528	0.6528		0.6028	0.6028		3,115.4875	3,115.4875	0.9860		3,140.1363
<b>Total</b>	<b>1.5691</b>	<b>15.6139</b>	<b>14.8627</b>	<b>0.0326</b>	<b>1.0605</b>	<b>0.6528</b>	<b>1.7133</b>	<b>0.1145</b>	<b>0.6028</b>	<b>0.7173</b>		<b>3,115.4875</b>	<b>3,115.4875</b>	<b>0.9860</b>		<b>3,140.1363</b>



McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**3.2 Clearing & Grubbing - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0616	0.0421	0.5348	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		162.0762	162.0762	4.1200e-003	4.3200e-003	163.4672
<b>Total</b>	<b>0.0616</b>	<b>0.0421</b>	<b>0.5348</b>	<b>1.6000e-003</b>	<b>0.2012</b>	<b>9.4000e-004</b>	<b>0.2021</b>	<b>0.0534</b>	<b>8.7000e-004</b>	<b>0.0542</b>		<b>162.0762</b>	<b>162.0762</b>	<b>4.1200e-003</b>	<b>4.3200e-003</b>	<b>163.4672</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4136	0.0000	0.4136	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	1.5691	15.6139	14.8627	0.0326		0.6528	0.6528		0.6028	0.6028	0.0000	3,115.4875	3,115.4875	0.9860		3,140.1363
<b>Total</b>	<b>1.5691</b>	<b>15.6139</b>	<b>14.8627</b>	<b>0.0326</b>	<b>0.4136</b>	<b>0.6528</b>	<b>1.0664</b>	<b>0.0447</b>	<b>0.6028</b>	<b>0.6475</b>	<b>0.0000</b>	<b>3,115.4875</b>	<b>3,115.4875</b>	<b>0.9860</b>		<b>3,140.1363</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**3.2 Clearing & Grubbing - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0616	0.0421	0.5348	1.6000e-003	0.1312	9.4000e-004	0.1322	0.0362	8.7000e-004	0.0371		162.0762	162.0762	4.1200e-003	4.3200e-003	163.4672
<b>Total</b>	<b>0.0616</b>	<b>0.0421</b>	<b>0.5348</b>	<b>1.6000e-003</b>	<b>0.1312</b>	<b>9.4000e-004</b>	<b>0.1322</b>	<b>0.0362</b>	<b>8.7000e-004</b>	<b>0.0371</b>		<b>162.0762</b>	<b>162.0762</b>	<b>4.1200e-003</b>	<b>4.3200e-003</b>	<b>163.4672</b>

**3.3 Grading & Excavation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2317	0.0000	0.2317	0.0250	0.0000	0.0250			0.0000			0.0000
Off-Road	7.5496	77.2181	66.9613	0.1510		3.1167	3.1167		2.9019	2.9019		14,536.65 34	14,536.65 34	4.1608		14,640.67 33
<b>Total</b>	<b>7.5496</b>	<b>77.2181</b>	<b>66.9613</b>	<b>0.1510</b>	<b>0.2317</b>	<b>3.1167</b>	<b>3.3484</b>	<b>0.0250</b>	<b>2.9019</b>	<b>2.9269</b>		<b>14,536.65 34</b>	<b>14,536.65 34</b>	<b>4.1608</b>		<b>14,640.67 33</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**3.3 Grading & Excavation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2053	0.1405	1.7826	5.3500e-003	0.6707	3.1400e-003	0.6738	0.1779	2.8900e-003	0.1808		540.2541	540.2541	0.0137	0.0144	544.8905
<b>Total</b>	<b>0.2053</b>	<b>0.1405</b>	<b>1.7826</b>	<b>5.3500e-003</b>	<b>0.6707</b>	<b>3.1400e-003</b>	<b>0.6738</b>	<b>0.1779</b>	<b>2.8900e-003</b>	<b>0.1808</b>		<b>540.2541</b>	<b>540.2541</b>	<b>0.0137</b>	<b>0.0144</b>	<b>544.8905</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0904	0.0000	0.0904	9.7600e-003	0.0000	9.7600e-003			0.0000			0.0000
Off-Road	7.5496	77.2181	66.9613	0.1510		3.1167	3.1167		2.9019	2.9019	0.0000	14,536.6534	14,536.6534	4.1608		14,640.6733
<b>Total</b>	<b>7.5496</b>	<b>77.2181</b>	<b>66.9613</b>	<b>0.1510</b>	<b>0.0904</b>	<b>3.1167</b>	<b>3.2070</b>	<b>9.7600e-003</b>	<b>2.9019</b>	<b>2.9117</b>	<b>0.0000</b>	<b>14,536.6534</b>	<b>14,536.6534</b>	<b>4.1608</b>		<b>14,640.6733</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**3.3 Grading & Excavation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2053	0.1405	1.7826	5.3500e-003	0.4374	3.1400e-003	0.4406	0.1206	2.8900e-003	0.1235		540.2541	540.2541	0.0137	0.0144	544.8905
<b>Total</b>	<b>0.2053</b>	<b>0.1405</b>	<b>1.7826</b>	<b>5.3500e-003</b>	<b>0.4374</b>	<b>3.1400e-003</b>	<b>0.4406</b>	<b>0.1206</b>	<b>2.8900e-003</b>	<b>0.1235</b>		<b>540.2541</b>	<b>540.2541</b>	<b>0.0137</b>	<b>0.0144</b>	<b>544.8905</b>

**3.4 Drainage-Utilities-Subgrade - 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	5.0551	49.6795	48.6854	0.0980		2.0689	2.0689		1.9644	1.9644		9,355.3448	9,355.3448	2.0969		9,407.7670
<b>Total</b>	<b>5.0551</b>	<b>49.6795</b>	<b>48.6854</b>	<b>0.0980</b>		<b>2.0689</b>	<b>2.0689</b>		<b>1.9644</b>	<b>1.9644</b>		<b>9,355.3448</b>	<b>9,355.3448</b>	<b>2.0969</b>		<b>9,407.7670</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**3.4 Drainage-Utilities-Subgrade - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1660	5.5090	2.2109	0.0279	1.0184	0.0454	1.0638	0.2932	0.0434	0.3367		2,953.119 7	2,953.119 7	0.0295	0.4368	3,084.007 9
Worker	1.3963	0.9550	12.1214	0.0364	4.5605	0.0213	4.5818	1.2095	0.0196	1.2291		3,673.727 7	3,673.727 7	0.0934	0.0980	3,705.255 6
<b>Total</b>	<b>1.5622</b>	<b>6.4641</b>	<b>14.3324</b>	<b>0.0642</b>	<b>5.5789</b>	<b>0.0667</b>	<b>5.6456</b>	<b>1.5027</b>	<b>0.0631</b>	<b>1.5658</b>		<b>6,626.847 4</b>	<b>6,626.847 4</b>	<b>0.1229</b>	<b>0.5347</b>	<b>6,789.263 5</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.0551	49.6795	48.6854	0.0980		2.0689	2.0689		1.9644	1.9644	0.0000	9,355.344 8	9,355.344 8	2.0969		9,407.767 0
<b>Total</b>	<b>5.0551</b>	<b>49.6795</b>	<b>48.6854</b>	<b>0.0980</b>		<b>2.0689</b>	<b>2.0689</b>		<b>1.9644</b>	<b>1.9644</b>	<b>0.0000</b>	<b>9,355.344 8</b>	<b>9,355.344 8</b>	<b>2.0969</b>		<b>9,407.767 0</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**3.4 Drainage-Utilities-Subgrade - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1660	5.5090	2.2109	0.0279	0.7283	0.0454	0.7737	0.2220	0.0434	0.2655		2,953.119 7	2,953.119 7	0.0295	0.4368	3,084.007 9
Worker	1.3963	0.9550	12.1214	0.0364	2.9746	0.0213	2.9959	0.8202	0.0196	0.8398		3,673.727 7	3,673.727 7	0.0934	0.0980	3,705.255 6
<b>Total</b>	<b>1.5622</b>	<b>6.4641</b>	<b>14.3324</b>	<b>0.0642</b>	<b>3.7029</b>	<b>0.0667</b>	<b>3.7696</b>	<b>1.0422</b>	<b>0.0631</b>	<b>1.1053</b>		<b>6,626.847 4</b>	<b>6,626.847 4</b>	<b>0.1229</b>	<b>0.5347</b>	<b>6,789.263 5</b>

**3.4 Drainage-Utilities-Subgrade - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.7966	46.1899	48.2669	0.0980		1.8587	1.8587		1.7633	1.7633		9,353.119 2	9,353.119 2	2.0870		9,405.293 0
<b>Total</b>	<b>4.7966</b>	<b>46.1899</b>	<b>48.2669</b>	<b>0.0980</b>		<b>1.8587</b>	<b>1.8587</b>		<b>1.7633</b>	<b>1.7633</b>		<b>9,353.119 2</b>	<b>9,353.119 2</b>	<b>2.0870</b>		<b>9,405.293 0</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**3.4 Drainage-Utilities-Subgrade - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1632	5.5098	2.1862	0.0274	1.0184	0.0451	1.0635	0.2932	0.0431	0.3364		2,907.656 2	2,907.656 2	0.0305	0.4294	3,036.369 1
Worker	1.3052	0.8503	11.3362	0.0352	4.5605	0.0203	4.5808	1.2095	0.0187	1.2282		3,557.460 5	3,557.460 5	0.0848	0.0910	3,586.694 0
<b>Total</b>	<b>1.4684</b>	<b>6.3601</b>	<b>13.5224</b>	<b>0.0626</b>	<b>5.5789</b>	<b>0.0654</b>	<b>5.6443</b>	<b>1.5027</b>	<b>0.0619</b>	<b>1.5646</b>		<b>6,465.116 7</b>	<b>6,465.116 7</b>	<b>0.1153</b>	<b>0.5204</b>	<b>6,623.063 1</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.7966	46.1899	48.2669	0.0980		1.8587	1.8587		1.7633	1.7633	0.0000	9,353.119 2	9,353.119 2	2.0870		9,405.293 0
<b>Total</b>	<b>4.7966</b>	<b>46.1899</b>	<b>48.2669</b>	<b>0.0980</b>		<b>1.8587</b>	<b>1.8587</b>		<b>1.7633</b>	<b>1.7633</b>	<b>0.0000</b>	<b>9,353.119 2</b>	<b>9,353.119 2</b>	<b>2.0870</b>		<b>9,405.293 0</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**3.4 Drainage-Utilities-Subgrade - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1632	5.5098	2.1862	0.0274	0.7283	0.0451	0.7734	0.2220	0.0431	0.2652		2,907.656 2	2,907.656 2	0.0305	0.4294	3,036.369 1
Worker	1.3052	0.8503	11.3362	0.0352	2.9746	0.0203	2.9949	0.8202	0.0187	0.8389		3,557.460 5	3,557.460 5	0.0848	0.0910	3,586.694 0
<b>Total</b>	<b>1.4684</b>	<b>6.3601</b>	<b>13.5224</b>	<b>0.0626</b>	<b>3.7029</b>	<b>0.0654</b>	<b>3.7683</b>	<b>1.0422</b>	<b>0.0619</b>	<b>1.1041</b>		<b>6,465.116 7</b>	<b>6,465.116 7</b>	<b>0.1153</b>	<b>0.5204</b>	<b>6,623.063 1</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8243	17.5607	26.0203	0.0393		0.8430	0.8430		0.7778	0.7778		3,767.387 0	3,767.387 0	1.1968		3,797.306 7
Paving	1.4613					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>3.2856</b>	<b>17.5607</b>	<b>26.0203</b>	<b>0.0393</b>		<b>0.8430</b>	<b>0.8430</b>		<b>0.7778</b>	<b>0.7778</b>		<b>3,767.387 0</b>	<b>3,767.387 0</b>	<b>1.1968</b>		<b>3,797.306 7</b>



McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1056	0.0688	0.9169	2.8500e-003	0.3689	1.6500e-003	0.3705	0.0978	1.5100e-003	0.0993		287.7358	287.7358	6.8600e-003	7.3600e-003	290.1003
<b>Total</b>	<b>0.1056</b>	<b>0.0688</b>	<b>0.9169</b>	<b>2.8500e-003</b>	<b>0.3689</b>	<b>1.6500e-003</b>	<b>0.3705</b>	<b>0.0978</b>	<b>1.5100e-003</b>	<b>0.0993</b>		<b>287.7358</b>	<b>287.7358</b>	<b>6.8600e-003</b>	<b>7.3600e-003</b>	<b>290.1003</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8243	17.5607	26.0203	0.0393		0.8430	0.8430		0.7778	0.7778	0.0000	3,767.3870	3,767.3870	1.1968		3,797.3067
Paving	1.4613					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>3.2856</b>	<b>17.5607</b>	<b>26.0203</b>	<b>0.0393</b>		<b>0.8430</b>	<b>0.8430</b>		<b>0.7778</b>	<b>0.7778</b>	<b>0.0000</b>	<b>3,767.3870</b>	<b>3,767.3870</b>	<b>1.1968</b>		<b>3,797.3067</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1056	0.0688	0.9169	2.8500e-003	0.2406	1.6500e-003	0.2422	0.0663	1.5100e-003	0.0679		287.7358	287.7358	6.8600e-003	7.3600e-003	290.1003
<b>Total</b>	<b>0.1056</b>	<b>0.0688</b>	<b>0.9169</b>	<b>2.8500e-003</b>	<b>0.2406</b>	<b>1.6500e-003</b>	<b>0.2422</b>	<b>0.0663</b>	<b>1.5100e-003</b>	<b>0.0679</b>		<b>287.7358</b>	<b>287.7358</b>	<b>6.8600e-003</b>	<b>7.3600e-003</b>	<b>290.1003</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	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
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4185	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Unmitigated	0.4185	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**6.2 Area by SubCategory**

**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	0.0740					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.8800e-003	4.8800e-003	1.0000e-005	5.2000e-003
<b>Total</b>	<b>0.4185</b>	<b>2.0000e-005</b>	<b>2.2700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>4.8800e-003</b>	<b>4.8800e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-003</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0740					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.8800e-003	4.8800e-003	1.0000e-005	5.2000e-003
<b>Total</b>	<b>0.4185</b>	<b>2.0000e-005</b>	<b>2.2700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>4.8800e-003</b>	<b>4.8800e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

McCall Boulevard Widening Project - Riverside-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

**McCall Boulevard Widening Project  
Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	22.31	Acre	22.31	971,823.60	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>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use -
- Construction Phase - Construction phasing per Roadway Construction Emissions Model Defaults
- Off-road Equipment - Equipment per Roadway Construction Emissions Model Defaults
- Off-road Equipment - Ibid
- Off-road Equipment - Ibid
- Off-road Equipment - Ibid
- Grading - 22-acre site includes existing roadway pavement.
- Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40

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

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	370.00	79.00
tblConstructionPhase	NumDays	35.00	119.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	10.00	26.00
tblGrading	AcresOfGrading	654.50	26.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

**2.0 Emissions Summary**

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

**2.1 Overall Construction**

**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					
2023	0.4983	4.9469	4.4556	0.0102	0.0831	0.1995	0.2826	0.0178	0.1858	0.2035	0.0000	889.6214	889.6214	0.2421	2.0600e-003	896.2863
2024	0.2972	2.2957	2.8471	6.8100e-003	0.2103	0.0881	0.2984	0.0567	0.0831	0.1398	0.0000	607.2836	607.2836	0.0958	0.0176	614.9336
<b>Maximum</b>	<b>0.4983</b>	<b>4.9469</b>	<b>4.4556</b>	<b>0.0102</b>	<b>0.2103</b>	<b>0.1995</b>	<b>0.2984</b>	<b>0.0567</b>	<b>0.1858</b>	<b>0.2035</b>	<b>0.0000</b>	<b>889.6214</b>	<b>889.6214</b>	<b>0.2421</b>	<b>0.0176</b>	<b>896.2863</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					
2023	0.4983	4.9469	4.4556	0.0102	0.0472	0.1995	0.2467	0.0113	0.1858	0.1970	0.0000	889.6204	889.6204	0.2421	2.0600e-003	896.2853
2024	0.2972	2.2957	2.8471	6.8100e-003	0.1398	0.0881	0.2278	0.0394	0.0831	0.1225	0.0000	607.2832	607.2832	0.0958	0.0176	614.9332
<b>Maximum</b>	<b>0.4983</b>	<b>4.9469</b>	<b>4.4556</b>	<b>0.0102</b>	<b>0.1398</b>	<b>0.1995</b>	<b>0.2467</b>	<b>0.0394</b>	<b>0.1858</b>	<b>0.1970</b>	<b>0.0000</b>	<b>889.6204</b>	<b>889.6204</b>	<b>0.2421</b>	<b>0.0176</b>	<b>896.2853</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	36.30	0.00	18.33	31.99	0.00	6.94	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)
2	3-8-2023	6-7-2023	0.0185	0.0185
3	6-8-2023	9-7-2023	1.9974	1.9974
4	9-8-2023	12-7-2023	2.7663	2.7663
5	12-8-2023	3-7-2024	2.0651	2.0651
6	3-8-2024	6-7-2024	1.1547	1.1547
		Highest	2.7663	2.7663

**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	0.0764	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0764</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.9000e-004</b>

McCall Boulevard Widening Project - Riverside-South Coast County, Annual

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0764	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0764</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.9000e-004</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	Clearing & Grubbing	Site Preparation	6/5/2023	7/10/2023	5	26	
2	Grading & Excavation	Grading	7/11/2023	12/22/2023	5	119	
3	Drainage-Utilities-Subgrade	Building Construction	12/23/2023	4/11/2024	5	79	

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

4	Paving	Paving	4/12/2024	6/6/2024	5	40
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**Acres of Grading (Site Preparation Phase): 26**

**Acres of Grading (Grading Phase): 26**

**Acres of Paving: 22.31**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clearing & Grubbing	Crawler Tractors	2	8.00	212	0.43
Clearing & Grubbing	Excavators	3	8.00	158	0.38
Clearing & Grubbing	Rubber Tired Dozers	0	8.00	247	0.40
Clearing & Grubbing	Signal Boards	2	8.00	6	0.82
Clearing & Grubbing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading & Excavation	Crawler Tractors	2	8.00	212	0.43
Grading & Excavation	Excavators	4	8.00	158	0.38
Grading & Excavation	Graders	3	8.00	187	0.41
Grading & Excavation	Pumps	3	8.00	84	0.74
Grading & Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Grading & Excavation	Rubber Tired Loaders	2	8.00	203	0.36
Grading & Excavation	Scrapers	3	8.00	367	0.48
Grading & Excavation	Signal Boards	2	8.00	6	0.82
Grading & Excavation	Tractors/Loaders/Backhoes	5	8.00	97	0.37
Drainage-Utilities-Subgrade	Air Compressors	2	8.00	78	0.48
Drainage-Utilities-Subgrade	Cranes	0	7.00	231	0.29
Drainage-Utilities-Subgrade	Forklifts	0	8.00	89	0.20
Drainage-Utilities-Subgrade	Generator Sets	2	8.00	84	0.74
Drainage-Utilities-Subgrade	Graders	2	8.00	187	0.41

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

Drainage-Utilities-Subgrade	Plate Compactors	2	8.00	8	0.43
Drainage-Utilities-Subgrade	Pumps	2	8.00	84	0.74
Drainage-Utilities-Subgrade	Rough Terrain Forklifts	2	8.00	100	0.40
Drainage-Utilities-Subgrade	Scrapers	2	8.00	367	0.48
Drainage-Utilities-Subgrade	Signal Boards	2	8.00	6	0.82
Drainage-Utilities-Subgrade	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Drainage-Utilities-Subgrade	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	3	8.00	80	0.38
Paving	Signal Boards	2	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Clearing & Grubbing	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading & Excavation	24	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage-Utilities-Subgrade	20	408.00	159.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	13	33.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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

**3.2 Clearing & Grubbing - 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					
Fugitive Dust					0.0138	0.0000	0.0138	1.4900e-003	0.0000	1.4900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2030	0.1932	4.2000e-004		8.4900e-003	8.4900e-003		7.8400e-003	7.8400e-003	0.0000	36.7422	36.7422	0.0116	0.0000	37.0329
<b>Total</b>	<b>0.0204</b>	<b>0.2030</b>	<b>0.1932</b>	<b>4.2000e-004</b>	<b>0.0138</b>	<b>8.4900e-003</b>	<b>0.0223</b>	<b>1.4900e-003</b>	<b>7.8400e-003</b>	<b>9.3300e-003</b>	<b>0.0000</b>	<b>36.7422</b>	<b>36.7422</b>	<b>0.0116</b>	<b>0.0000</b>	<b>37.0329</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	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	7.6000e-004	5.6000e-004	7.3300e-003	2.0000e-005	2.5700e-003	1.0000e-005	2.5800e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	1.9559	1.9559	5.0000e-005	5.0000e-005	1.9726
<b>Total</b>	<b>7.6000e-004</b>	<b>5.6000e-004</b>	<b>7.3300e-003</b>	<b>2.0000e-005</b>	<b>2.5700e-003</b>	<b>1.0000e-005</b>	<b>2.5800e-003</b>	<b>6.8000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>1.9559</b>	<b>1.9559</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>1.9726</b>



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

**3.2 Clearing & Grubbing - 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	tons/yr										MT/yr					
Fugitive Dust					5.3800e-003	0.0000	5.3800e-003	5.8000e-004	0.0000	5.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2030	0.1932	4.2000e-004		8.4900e-003	8.4900e-003		7.8400e-003	7.8400e-003	0.0000	36.7422	36.7422	0.0116	0.0000	37.0328
<b>Total</b>	<b>0.0204</b>	<b>0.2030</b>	<b>0.1932</b>	<b>4.2000e-004</b>	<b>5.3800e-003</b>	<b>8.4900e-003</b>	<b>0.0139</b>	<b>5.8000e-004</b>	<b>7.8400e-003</b>	<b>8.4200e-003</b>	<b>0.0000</b>	<b>36.7422</b>	<b>36.7422</b>	<b>0.0116</b>	<b>0.0000</b>	<b>37.0328</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	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	7.6000e-004	5.6000e-004	7.3300e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.6900e-003	4.6000e-004	1.0000e-005	4.8000e-004	0.0000	1.9559	1.9559	5.0000e-005	5.0000e-005	1.9726
<b>Total</b>	<b>7.6000e-004</b>	<b>5.6000e-004</b>	<b>7.3300e-003</b>	<b>2.0000e-005</b>	<b>1.6800e-003</b>	<b>1.0000e-005</b>	<b>1.6900e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.9559</b>	<b>1.9559</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>1.9726</b>

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

**3.3 Grading & Excavation - 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					
Fugitive Dust					0.0138	0.0000	0.0138	1.4900e-003	0.0000	1.4900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4492	4.5945	3.9842	8.9800e-003		0.1854	0.1854		0.1727	0.1727	0.0000	784.6521	784.6521	0.2246	0.0000	790.2668
<b>Total</b>	<b>0.4492</b>	<b>4.5945</b>	<b>3.9842</b>	<b>8.9800e-003</b>	<b>0.0138</b>	<b>0.1854</b>	<b>0.1992</b>	<b>1.4900e-003</b>	<b>0.1727</b>	<b>0.1742</b>	<b>0.0000</b>	<b>784.6521</b>	<b>784.6521</b>	<b>0.2246</b>	<b>0.0000</b>	<b>790.2668</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	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	0.0116	8.5800e-003	0.1118	3.3000e-004	0.0392	1.9000e-004	0.0394	0.0104	1.7000e-004	0.0106	0.0000	29.8400	29.8400	7.4000e-004	7.9000e-004	30.0947
<b>Total</b>	<b>0.0116</b>	<b>8.5800e-003</b>	<b>0.1118</b>	<b>3.3000e-004</b>	<b>0.0392</b>	<b>1.9000e-004</b>	<b>0.0394</b>	<b>0.0104</b>	<b>1.7000e-004</b>	<b>0.0106</b>	<b>0.0000</b>	<b>29.8400</b>	<b>29.8400</b>	<b>7.4000e-004</b>	<b>7.9000e-004</b>	<b>30.0947</b>

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

**3.3 Grading & Excavation - 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	tons/yr										MT/yr					
Fugitive Dust					5.3800e-003	0.0000	5.3800e-003	5.8000e-004	0.0000	5.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4492	4.5945	3.9842	8.9800e-003		0.1854	0.1854		0.1727	0.1727	0.0000	784.6512	784.6512	0.2246	0.0000	790.2659
<b>Total</b>	<b>0.4492</b>	<b>4.5945</b>	<b>3.9842</b>	<b>8.9800e-003</b>	<b>5.3800e-003</b>	<b>0.1854</b>	<b>0.1908</b>	<b>5.8000e-004</b>	<b>0.1727</b>	<b>0.1732</b>	<b>0.0000</b>	<b>784.6512</b>	<b>784.6512</b>	<b>0.2246</b>	<b>0.0000</b>	<b>790.2659</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	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	0.0116	8.5800e-003	0.1118	3.3000e-004	0.0256	1.9000e-004	0.0258	7.0800e-003	1.7000e-004	7.2500e-003	0.0000	29.8400	29.8400	7.4000e-004	7.9000e-004	30.0947
<b>Total</b>	<b>0.0116</b>	<b>8.5800e-003</b>	<b>0.1118</b>	<b>3.3000e-004</b>	<b>0.0256</b>	<b>1.9000e-004</b>	<b>0.0258</b>	<b>7.0800e-003</b>	<b>1.7000e-004</b>	<b>7.2500e-003</b>	<b>0.0000</b>	<b>29.8400</b>	<b>29.8400</b>	<b>7.4000e-004</b>	<b>7.9000e-004</b>	<b>30.0947</b>

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

**3.4 Drainage-Utilities-Subgrade - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1242	0.1217	2.5000e-004		5.1700e-003	5.1700e-003		4.9100e-003	4.9100e-003	0.0000	21.2176	21.2176	4.7600e-003	0.0000	21.3365
<b>Total</b>	<b>0.0126</b>	<b>0.1242</b>	<b>0.1217</b>	<b>2.5000e-004</b>		<b>5.1700e-003</b>	<b>5.1700e-003</b>		<b>4.9100e-003</b>	<b>4.9100e-003</b>	<b>0.0000</b>	<b>21.2176</b>	<b>21.2176</b>	<b>4.7600e-003</b>	<b>0.0000</b>	<b>21.3365</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	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	4.3000e-004	0.0136	5.4300e-003	7.0000e-005	2.5100e-003	1.1000e-004	2.6200e-003	7.2000e-004	1.1000e-004	8.3000e-004	0.0000	6.6880	6.6880	7.0000e-005	9.9000e-004	6.9844
Worker	3.3100e-003	2.4500e-003	0.0319	9.0000e-005	0.0112	5.0000e-005	0.0113	2.9800e-003	5.0000e-005	3.0300e-003	0.0000	8.5257	8.5257	2.1000e-004	2.3000e-004	8.5985
<b>Total</b>	<b>3.7400e-003</b>	<b>0.0161</b>	<b>0.0374</b>	<b>1.6000e-004</b>	<b>0.0137</b>	<b>1.6000e-004</b>	<b>0.0139</b>	<b>3.7000e-003</b>	<b>1.6000e-004</b>	<b>3.8600e-003</b>	<b>0.0000</b>	<b>15.2137</b>	<b>15.2137</b>	<b>2.8000e-004</b>	<b>1.2200e-003</b>	<b>15.5828</b>

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

**3.4 Drainage-Utilities-Subgrade - 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	tons/yr										MT/yr					
Off-Road	0.0126	0.1242	0.1217	2.5000e-004		5.1700e-003	5.1700e-003		4.9100e-003	4.9100e-003	0.0000	21.2175	21.2175	4.7600e-003	0.0000	21.3364
<b>Total</b>	<b>0.0126</b>	<b>0.1242</b>	<b>0.1217</b>	<b>2.5000e-004</b>		<b>5.1700e-003</b>	<b>5.1700e-003</b>		<b>4.9100e-003</b>	<b>4.9100e-003</b>	<b>0.0000</b>	<b>21.2175</b>	<b>21.2175</b>	<b>4.7600e-003</b>	<b>0.0000</b>	<b>21.3364</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	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	4.3000e-004	0.0136	5.4300e-003	7.0000e-005	1.8000e-003	1.1000e-004	1.9100e-003	5.5000e-004	1.1000e-004	6.6000e-004	0.0000	6.6880	6.6880	7.0000e-005	9.9000e-004	6.9844
Worker	3.3100e-003	2.4500e-003	0.0319	9.0000e-005	7.3200e-003	5.0000e-005	7.3800e-003	2.0200e-003	5.0000e-005	2.0700e-003	0.0000	8.5257	8.5257	2.1000e-004	2.3000e-004	8.5985
<b>Total</b>	<b>3.7400e-003</b>	<b>0.0161</b>	<b>0.0374</b>	<b>1.6000e-004</b>	<b>9.1200e-003</b>	<b>1.6000e-004</b>	<b>9.2900e-003</b>	<b>2.5700e-003</b>	<b>1.6000e-004</b>	<b>2.7300e-003</b>	<b>0.0000</b>	<b>15.2137</b>	<b>15.2137</b>	<b>2.8000e-004</b>	<b>1.2200e-003</b>	<b>15.5828</b>

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

**3.4 Drainage-Utilities-Subgrade - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1775	1.7090	1.7859	3.6300e-003		0.0688	0.0688		0.0652	0.0652	0.0000	313.9453	313.9453	0.0701	0.0000	315.6965
<b>Total</b>	<b>0.1775</b>	<b>1.7090</b>	<b>1.7859</b>	<b>3.6300e-003</b>		<b>0.0688</b>	<b>0.0688</b>		<b>0.0652</b>	<b>0.0652</b>	<b>0.0000</b>	<b>313.9453</b>	<b>313.9453</b>	<b>0.0701</b>	<b>0.0000</b>	<b>315.6965</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	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	6.2800e-003	0.2017	0.0794	1.0100e-003	0.0372	1.6700e-003	0.0388	0.0107	1.5900e-003	0.0123	0.0000	97.4570	97.4570	1.0400e-003	0.0144	101.7706
Worker	0.0457	0.0323	0.4420	1.3300e-003	0.1659	7.5000e-004	0.1667	0.0441	6.9000e-004	0.0448	0.0000	122.1851	122.1851	2.8600e-003	3.1100e-003	123.1838
<b>Total</b>	<b>0.0520</b>	<b>0.2340</b>	<b>0.5215</b>	<b>2.3400e-003</b>	<b>0.2031</b>	<b>2.4200e-003</b>	<b>0.2055</b>	<b>0.0548</b>	<b>2.2800e-003</b>	<b>0.0571</b>	<b>0.0000</b>	<b>219.6421</b>	<b>219.6421</b>	<b>3.9000e-003</b>	<b>0.0175</b>	<b>224.9543</b>

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

**3.4 Drainage-Utilities-Subgrade - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1775	1.7090	1.7859	3.6300e-003		0.0688	0.0688		0.0652	0.0652	0.0000	313.9449	313.9449	0.0701	0.0000	315.6961
<b>Total</b>	<b>0.1775</b>	<b>1.7090</b>	<b>1.7859</b>	<b>3.6300e-003</b>		<b>0.0688</b>	<b>0.0688</b>		<b>0.0652</b>	<b>0.0652</b>	<b>0.0000</b>	<b>313.9449</b>	<b>313.9449</b>	<b>0.0701</b>	<b>0.0000</b>	<b>315.6961</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	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	6.2800e-003	0.2017	0.0794	1.0100e-003	0.0266	1.6700e-003	0.0283	8.1400e-003	1.5900e-003	9.7300e-003	0.0000	97.4570	97.4570	1.0400e-003	0.0144	101.7706
Worker	0.0457	0.0323	0.4420	1.3300e-003	0.1084	7.5000e-004	0.1091	0.0299	6.9000e-004	0.0306	0.0000	122.1851	122.1851	2.8600e-003	3.1100e-003	123.1838
<b>Total</b>	<b>0.0520</b>	<b>0.2340</b>	<b>0.5215</b>	<b>2.3400e-003</b>	<b>0.1350</b>	<b>2.4200e-003</b>	<b>0.1374</b>	<b>0.0381</b>	<b>2.2800e-003</b>	<b>0.0404</b>	<b>0.0000</b>	<b>219.6421</b>	<b>219.6421</b>	<b>3.9000e-003</b>	<b>0.0175</b>	<b>224.9543</b>

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

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0365	0.3512	0.5204	7.9000e-004		0.0169	0.0169		0.0156	0.0156	0.0000	68.3543	68.3543	0.0217	0.0000	68.8972
Paving	0.0292					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0657</b>	<b>0.3512</b>	<b>0.5204</b>	<b>7.9000e-004</b>		<b>0.0169</b>	<b>0.0169</b>		<b>0.0156</b>	<b>0.0156</b>	<b>0.0000</b>	<b>68.3543</b>	<b>68.3543</b>	<b>0.0217</b>	<b>0.0000</b>	<b>68.8972</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	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	2.0000e-003	1.4100e-003	0.0193	6.0000e-005	7.2500e-003	3.0000e-005	7.2900e-003	1.9300e-003	3.0000e-005	1.9600e-003	0.0000	5.3420	5.3420	1.2000e-004	1.4000e-004	5.3856
<b>Total</b>	<b>2.0000e-003</b>	<b>1.4100e-003</b>	<b>0.0193</b>	<b>6.0000e-005</b>	<b>7.2500e-003</b>	<b>3.0000e-005</b>	<b>7.2900e-003</b>	<b>1.9300e-003</b>	<b>3.0000e-005</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>5.3420</b>	<b>5.3420</b>	<b>1.2000e-004</b>	<b>1.4000e-004</b>	<b>5.3856</b>



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**3.5 Paving - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0365	0.3512	0.5204	7.9000e-004		0.0169	0.0169		0.0156	0.0156	0.0000	68.3542	68.3542	0.0217	0.0000	68.8971
Paving	0.0292					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0657</b>	<b>0.3512</b>	<b>0.5204</b>	<b>7.9000e-004</b>		<b>0.0169</b>	<b>0.0169</b>		<b>0.0156</b>	<b>0.0156</b>	<b>0.0000</b>	<b>68.3542</b>	<b>68.3542</b>	<b>0.0217</b>	<b>0.0000</b>	<b>68.8971</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	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	2.0000e-003	1.4100e-003	0.0193	6.0000e-005	4.7400e-003	3.0000e-005	4.7700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	5.3420	5.3420	1.2000e-004	1.4000e-004	5.3856
<b>Total</b>	<b>2.0000e-003</b>	<b>1.4100e-003</b>	<b>0.0193</b>	<b>6.0000e-005</b>	<b>4.7400e-003</b>	<b>3.0000e-005</b>	<b>4.7700e-003</b>	<b>1.3100e-003</b>	<b>3.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>5.3420</b>	<b>5.3420</b>	<b>1.2000e-004</b>	<b>1.4000e-004</b>	<b>5.3856</b>

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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	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	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
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189





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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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
Category	tons/yr										MT/yr					
Mitigated	0.0764	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Unmitigated	0.0764	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0628					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
<b>Total</b>	<b>0.0764</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.9000e-004</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0628					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
<b>Total</b>	<b>0.0764</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.9000e-004</b>

**7.0 Water Detail**

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**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 Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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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