

Alt 2 - Los Angeles-South Coast County, Annual

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

Alt 2

Los Angeles-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 | 12.63 | 1000sqft | 0.29 | 12,630.00 | 0 |
| Strip Mall | 13.96 | 1000sqft | 0.32 | 13,956.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|-----------------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2024 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 691.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Applicant info.

Land Use - Applicant info.

Construction Phase - "Building Construction" would consist of performing the necessary seismic upgrades, ADA upgrades, and other renovations related to its preservation.

Off-road Equipment - Applicant info.

Off-road Equipment - Asbestos abatement may require a generator or an air compressor to power electric or pneumatic hand tools and devices.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Asbestos Abatement phase assumes one inbound and one outbound haul trip per workday. Transporting building portions would require heavy duty class trucks.

Demolition - Assumes 1 CY of C&D equals 484 lbs per EPA volume to weight conversion factors for waste materials (2016).

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Grading -
 Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403 control efficiency for trackout PM reduction.

| Table Name | Column Name | Default Value | New Value |
|------------------------|--------------------------------|---------------|--------------------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0 | 80 |
| tblLandUse | LandUseSquareFeet | 13,960.00 | 13,956.00 |
| tblOffRoadEquipment | LoadFactor | 0.31 | 0.31 |
| tblOffRoadEquipment | OffRoadEquipmentType | | Air Compressors |
| tblOffRoadEquipment | OffRoadEquipmentType | | Generator Sets |
| tblOffRoadEquipment | OffRoadEquipmentType | | Aerial Lifts |
| tblOffRoadEquipment | OffRoadEquipmentType | | Cement and Mortar Mixers |
| tblOffRoadEquipment | OffRoadEquipmentType | | Welders |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 4.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 42.00 |
| tblTripsAndVMT | HaulingTripNumber | 3.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 5.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 2.00 | 4.00 |

2.0 Emissions Summary

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| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|----------------------------------------------|--------------------------------------------|
| 1 | 1-1-2023 | 3-31-2023 | 0.2702 | 0.2702 |
| 2 | 4-1-2023 | 6-30-2023 | 0.2679 | 0.2679 |
| | | Highest | 0.2702 | 0.2702 |

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 | 0.0579 | 0.0000 | 3.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 6.6000e-004 | 6.6000e-004 | 0.0000 | 0.0000 | 7.0000e-004 |
| Energy | 1.2000e-004 | 1.1200e-003 | 9.4000e-004 | 1.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 58.4666 | 58.4666 | 2.7500e-003 | 3.5000e-004 | 58.6407 |
| Mobile | 0.2260 | 0.2216 | 1.9814 | 3.8900e-003 | 0.4050 | 2.9700e-003 | 0.4079 | 0.1080 | 2.7600e-003 | 0.1108 | 0.0000 | 359.6447 | 359.6447 | 0.0291 | 0.0177 | 365.6498 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.9759 | 0.0000 | 2.9759 | 0.1759 | 0.0000 | 7.3725 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.3281 | 6.4362 | 6.7643 | 0.0340 | 8.3000e-004 | 7.8625 |
| Total | 0.2841 | 0.2228 | 1.9827 | 3.9000e-003 | 0.4050 | 3.0500e-003 | 0.4080 | 0.1080 | 2.8400e-003 | 0.1109 | 3.3039 | 424.5482 | 427.8521 | 0.2417 | 0.0189 | 439.5262 |

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2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.0579 | 0.0000 | 3.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 6.6000e-004 | 6.6000e-004 | 0.0000 | 0.0000 | 7.0000e-004 |
| Energy | 1.2000e-004 | 1.1200e-003 | 9.4000e-004 | 1.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 58.4666 | 58.4666 | 2.7500e-003 | 3.5000e-004 | 58.6407 |
| Mobile | 0.2260 | 0.2216 | 1.9814 | 3.8900e-003 | 0.4050 | 2.9700e-003 | 0.4079 | 0.1080 | 2.7600e-003 | 0.1108 | 0.0000 | 359.6447 | 359.6447 | 0.0291 | 0.0177 | 365.6498 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.9759 | 0.0000 | 2.9759 | 0.1759 | 0.0000 | 7.3725 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.3281 | 6.4362 | 6.7643 | 0.0340 | 8.3000e-004 | 7.8625 |
| Total | 0.2841 | 0.2228 | 1.9827 | 3.9000e-003 | 0.4050 | 3.0500e-003 | 0.4080 | 0.1080 | 2.8400e-003 | 0.1109 | 3.3039 | 424.5482 | 427.8521 | 0.2417 | 0.0189 | 439.5262 |

| | ROG | NOx | CO | SO2 | 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 | Asbestos Abatement | Demolition | 1/2/2023 | 1/13/2023 | 5 | 10 | |
| 2 | Building Construction | Building Construction | 1/16/2023 | 6/2/2023 | 5 | 100 | |
| 3 | Paving | Paving | 6/5/2023 | 6/9/2023 | 5 | 5 | |

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| | | | | | | |
|---|-----------------------|-----------------------|-----------|-----------|---|---|
| 4 | Architectural Coating | Architectural Coating | 6/12/2023 | 6/16/2023 | 5 | 5 |
|---|-----------------------|-----------------------|-----------|-----------|---|---|

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.29

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 20,934; Non-Residential Outdoor: 6,978; Striped Parking Area: 758 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Asbestos Abatement | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Asbestos Abatement | Concrete/Industrial Saws | 0 | 8.00 | 81 | 0.73 |
| Asbestos Abatement | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Asbestos Abatement | Rubber Tired Dozers | 0 | 1.00 | 247 | 0.40 |
| Asbestos Abatement | Tractors/Loaders/Backhoes | 0 | 6.00 | 97 | 0.37 |
| Building Construction | Aerial Lifts | 1 | 8.00 | 63 | 0.31 |
| Building Construction | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Building Construction | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Paving | Cement and Mortar Mixers | 4 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 7.00 | 130 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Asbestos Abatement | 2 | 20.00 | 0.00 | 20.00 | 14.70 | 6.90 | 42.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 6 | 10.00 | 4.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 4.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Asbestos Abatement - 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 | | | | | 3.4000e-004 | 0.0000 | 3.4000e-004 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.8100e-003 | 0.0223 | 0.0304 | 5.0000e-005 | | 1.1100e-003 | 1.1100e-003 | | 1.1100e-003 | 1.1100e-003 | 0.0000 | 4.5282 | 4.5282 | 2.3000e-004 | 0.0000 | 4.5339 |
| Total | 2.8100e-003 | 0.0223 | 0.0304 | 5.0000e-005 | 3.4000e-004 | 1.1100e-003 | 1.4500e-003 | 5.0000e-005 | 1.1100e-003 | 1.1600e-003 | 0.0000 | 4.5282 | 4.5282 | 2.3000e-004 | 0.0000 | 4.5339 |

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3.2 Asbestos Abatement - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 3.0000e-005 | 2.6800e-003 | 5.7000e-004 | 1.0000e-005 | 3.6000e-004 | 2.0000e-005 | 3.8000e-004 | 1.0000e-004 | 2.0000e-005 | 1.2000e-004 | 0.0000 | 1.1967 | 1.1967 | 7.0000e-005 | 1.9000e-004 | 1.2550 |
| 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 | 3.2000e-004 | 2.5000e-004 | 3.4100e-003 | 1.0000e-005 | 1.1000e-003 | 1.0000e-005 | 1.1000e-003 | 2.9000e-004 | 1.0000e-005 | 3.0000e-004 | 0.0000 | 0.8722 | 0.8722 | 2.0000e-005 | 2.0000e-005 | 0.8796 |
| Total | 3.5000e-004 | 2.9300e-003 | 3.9800e-003 | 2.0000e-005 | 1.4600e-003 | 3.0000e-005 | 1.4800e-003 | 3.9000e-004 | 3.0000e-005 | 4.2000e-004 | 0.0000 | 2.0690 | 2.0690 | 9.0000e-005 | 2.1000e-004 | 2.1346 |

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 | | | | | 1.5000e-004 | 0.0000 | 1.5000e-004 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.8100e-003 | 0.0223 | 0.0304 | 5.0000e-005 | | 1.1100e-003 | 1.1100e-003 | | 1.1100e-003 | 1.1100e-003 | 0.0000 | 4.5282 | 4.5282 | 2.3000e-004 | 0.0000 | 4.5339 |
| Total | 2.8100e-003 | 0.0223 | 0.0304 | 5.0000e-005 | 1.5000e-004 | 1.1100e-003 | 1.2600e-003 | 2.0000e-005 | 1.1100e-003 | 1.1300e-003 | 0.0000 | 4.5282 | 4.5282 | 2.3000e-004 | 0.0000 | 4.5339 |

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3.2 Asbestos Abatement - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 3.0000e-005 | 2.6800e-003 | 5.7000e-004 | 1.0000e-005 | 1.4000e-004 | 2.0000e-005 | 1.6000e-004 | 5.0000e-005 | 2.0000e-005 | 6.0000e-005 | 0.0000 | 1.1967 | 1.1967 | 7.0000e-005 | 1.9000e-004 | 1.2550 |
| 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 | 3.2000e-004 | 2.5000e-004 | 3.4100e-003 | 1.0000e-005 | 3.4000e-004 | 1.0000e-005 | 3.4000e-004 | 1.0000e-004 | 1.0000e-005 | 1.1000e-004 | 0.0000 | 0.8722 | 0.8722 | 2.0000e-005 | 2.0000e-005 | 0.8796 |
| Total | 3.5000e-004 | 2.9300e-003 | 3.9800e-003 | 2.0000e-005 | 4.8000e-004 | 3.0000e-005 | 5.0000e-004 | 1.5000e-004 | 3.0000e-005 | 1.7000e-004 | 0.0000 | 2.0690 | 2.0690 | 9.0000e-005 | 2.1000e-004 | 2.1346 |

3.3 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0452 | 0.4027 | 0.3598 | 6.9000e-004 | | 0.0178 | 0.0178 | | 0.0167 | 0.0167 | 0.0000 | 57.8126 | 57.8126 | 0.0162 | 0.0000 | 58.2171 |
| Total | 0.0452 | 0.4027 | 0.3598 | 6.9000e-004 | | 0.0178 | 0.0178 | | 0.0167 | 0.0167 | 0.0000 | 57.8126 | 57.8126 | 0.0162 | 0.0000 | 58.2171 |

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3.3 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | 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 | 2.3000e-004 | 8.0600e-003 | 3.0200e-003 | 4.0000e-005 | 1.2600e-003 | 4.0000e-005 | 1.3000e-003 | 3.6000e-004 | 4.0000e-005 | 4.0000e-004 | 0.0000 | 3.6364 | 3.6364 | 1.2000e-004 | 5.2000e-004 | 3.7954 |
| Worker | 1.5900e-003 | 1.2600e-003 | 0.0170 | 5.0000e-005 | 5.4800e-003 | 3.0000e-005 | 5.5100e-003 | 1.4600e-003 | 3.0000e-005 | 1.4900e-003 | 0.0000 | 4.3612 | 4.3612 | 1.2000e-004 | 1.1000e-004 | 4.3980 |
| Total | 1.8200e-003 | 9.3200e-003 | 0.0201 | 9.0000e-005 | 6.7400e-003 | 7.0000e-005 | 6.8100e-003 | 1.8200e-003 | 7.0000e-005 | 1.8900e-003 | 0.0000 | 7.9977 | 7.9977 | 2.4000e-004 | 6.3000e-004 | 8.1934 |

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 | 0.0452 | 0.4027 | 0.3598 | 6.9000e-004 | | 0.0178 | 0.0178 | | 0.0167 | 0.0167 | 0.0000 | 57.8126 | 57.8126 | 0.0162 | 0.0000 | 58.2170 |
| Total | 0.0452 | 0.4027 | 0.3598 | 6.9000e-004 | | 0.0178 | 0.0178 | | 0.0167 | 0.0167 | 0.0000 | 57.8126 | 57.8126 | 0.0162 | 0.0000 | 58.2170 |

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3.3 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | 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 | 2.3000e-004 | 8.0600e-003 | 3.0200e-003 | 4.0000e-005 | 5.5000e-004 | 4.0000e-005 | 5.9000e-004 | 1.9000e-004 | 4.0000e-005 | 2.3000e-004 | 0.0000 | 3.6364 | 3.6364 | 1.2000e-004 | 5.2000e-004 | 3.7954 |
| Worker | 1.5900e-003 | 1.2600e-003 | 0.0170 | 5.0000e-005 | 1.6800e-003 | 3.0000e-005 | 1.7100e-003 | 5.2000e-004 | 3.0000e-005 | 5.5000e-004 | 0.0000 | 4.3612 | 4.3612 | 1.2000e-004 | 1.1000e-004 | 4.3980 |
| Total | 1.8200e-003 | 9.3200e-003 | 0.0201 | 9.0000e-005 | 2.2300e-003 | 7.0000e-005 | 2.3000e-003 | 7.1000e-004 | 7.0000e-005 | 7.8000e-004 | 0.0000 | 7.9977 | 7.9977 | 2.4000e-004 | 6.3000e-004 | 8.1934 |

3.4 Paving - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 1.5300e-003 | 0.0138 | 0.0176 | 3.0000e-005 | | 6.6000e-004 | 6.6000e-004 | | 6.2000e-004 | 6.2000e-004 | 0.0000 | 2.3498 | 2.3498 | 6.8000e-004 | 0.0000 | 2.3669 |
| Paving | 3.8000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 1.9100e-003 | 0.0138 | 0.0176 | 3.0000e-005 | | 6.6000e-004 | 6.6000e-004 | | 6.2000e-004 | 6.2000e-004 | 0.0000 | 2.3498 | 2.3498 | 6.8000e-004 | 0.0000 | 2.3669 |

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3.4 Paving - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4000e-004 | 1.1000e-004 | 1.5300e-003 | 0.0000 | 4.9000e-004 | 0.0000 | 5.0000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3925 | 0.3925 | 1.0000e-005 | 1.0000e-005 | 0.3958 |
| Total | 1.4000e-004 | 1.1000e-004 | 1.5300e-003 | 0.0000 | 4.9000e-004 | 0.0000 | 5.0000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3925 | 0.3925 | 1.0000e-005 | 1.0000e-005 | 0.3958 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 1.5300e-003 | 0.0138 | 0.0176 | 3.0000e-005 | | 6.6000e-004 | 6.6000e-004 | | 6.2000e-004 | 6.2000e-004 | 0.0000 | 2.3498 | 2.3498 | 6.8000e-004 | 0.0000 | 2.3669 |
| Paving | 3.8000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 1.9100e-003 | 0.0138 | 0.0176 | 3.0000e-005 | | 6.6000e-004 | 6.6000e-004 | | 6.2000e-004 | 6.2000e-004 | 0.0000 | 2.3498 | 2.3498 | 6.8000e-004 | 0.0000 | 2.3669 |

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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 Paving - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4000e-004 | 1.1000e-004 | 1.5300e-003 | 0.0000 | 1.5000e-004 | 0.0000 | 1.5000e-004 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 0.0000 | 0.3925 | 0.3925 | 1.0000e-005 | 1.0000e-005 | 0.3958 |
| Total | 1.4000e-004 | 1.1000e-004 | 1.5300e-003 | 0.0000 | 1.5000e-004 | 0.0000 | 1.5000e-004 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 0.0000 | 0.3925 | 0.3925 | 1.0000e-005 | 1.0000e-005 | 0.3958 |

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0664 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.8000e-004 | 3.2600e-003 | 4.5300e-003 | 1.0000e-005 | | 1.8000e-004 | 1.8000e-004 | | 1.8000e-004 | 1.8000e-004 | 0.0000 | 0.6383 | 0.6383 | 4.0000e-005 | 0.0000 | 0.6393 |
| Total | 0.0669 | 3.2600e-003 | 4.5300e-003 | 1.0000e-005 | | 1.8000e-004 | 1.8000e-004 | | 1.8000e-004 | 1.8000e-004 | 0.0000 | 0.6383 | 0.6383 | 4.0000e-005 | 0.0000 | 0.6393 |

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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 Architectural Coating - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.0000e-005 | 3.0000e-005 | 3.4000e-004 | 0.0000 | 1.1000e-004 | 0.0000 | 1.1000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0872 | 0.0872 | 0.0000 | 0.0000 | 0.0880 |
| Total | 3.0000e-005 | 3.0000e-005 | 3.4000e-004 | 0.0000 | 1.1000e-004 | 0.0000 | 1.1000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0872 | 0.0872 | 0.0000 | 0.0000 | 0.0880 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0664 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.8000e-004 | 3.2600e-003 | 4.5300e-003 | 1.0000e-005 | | 1.8000e-004 | 1.8000e-004 | | 1.8000e-004 | 1.8000e-004 | 0.0000 | 0.6383 | 0.6383 | 4.0000e-005 | 0.0000 | 0.6393 |
| Total | 0.0669 | 3.2600e-003 | 4.5300e-003 | 1.0000e-005 | | 1.8000e-004 | 1.8000e-004 | | 1.8000e-004 | 1.8000e-004 | 0.0000 | 0.6383 | 0.6383 | 4.0000e-005 | 0.0000 | 0.6393 |

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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 Architectural Coating - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.0000e-005 | 3.0000e-005 | 3.4000e-004 | 0.0000 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0872 | 0.0872 | 0.0000 | 0.0000 | 0.0880 |
| Total | 3.0000e-005 | 3.0000e-005 | 3.4000e-004 | 0.0000 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0872 | 0.0872 | 0.0000 | 0.0000 | 0.0880 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.2260 | 0.2216 | 1.9814 | 3.8900e-003 | 0.4050 | 2.9700e-003 | 0.4079 | 0.1080 | 2.7600e-003 | 0.1108 | 0.0000 | 359.6447 | 359.6447 | 0.0291 | 0.0177 | 365.6498 |
| Unmitigated | 0.2260 | 0.2216 | 1.9814 | 3.8900e-003 | 0.4050 | 2.9700e-003 | 0.4079 | 0.1080 | 2.7600e-003 | 0.1108 | 0.0000 | 359.6447 | 359.6447 | 0.0291 | 0.0177 | 365.6498 |

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 | | |
| Strip Mall | 618.71 | 586.88 | 285.20 | 1,077,852 | 1,077,852 |
| Total | 618.71 | 586.88 | 285.20 | 1,077,852 | 1,077,852 |

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 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Other Asphalt Surfaces | 0.542464 | 0.063735 | 0.188241 | 0.126899 | 0.023249 | 0.006239 | 0.010717 | 0.008079 | 0.000923 | 0.000604 | 0.024795 | 0.000702 | 0.003352 |
| Strip Mall | 0.542464 | 0.063735 | 0.188241 | 0.126899 | 0.023249 | 0.006239 | 0.010717 | 0.008079 | 0.000923 | 0.000604 | 0.024795 | 0.000702 | 0.003352 |

5.0 Energy Detail

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 57.2527 | 57.2527 | 2.7300e-003 | 3.3000e-004 | 57.4196 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 57.2527 | 57.2527 | 2.7300e-003 | 3.3000e-004 | 57.4196 |
| NaturalGas Mitigated | 1.2000e-004 | 1.1200e-003 | 9.4000e-004 | 1.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 1.2139 | 1.2139 | 2.0000e-005 | 2.0000e-005 | 1.2212 |
| NaturalGas Unmitigated | 1.2000e-004 | 1.1200e-003 | 9.4000e-004 | 1.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 1.2139 | 1.2139 | 2.0000e-005 | 2.0000e-005 | 1.2212 |

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|----------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 22748.3 | 1.2000e-004 | 1.1200e-003 | 9.4000e-004 | 1.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 1.2139 | 1.2139 | 2.0000e-005 | 2.0000e-005 | 1.2212 |
| Total | | 1.2000e-004 | 1.1200e-003 | 9.4000e-004 | 1.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 1.2139 | 1.2139 | 2.0000e-005 | 2.0000e-005 | 1.2212 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|----------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 22748.3 | 1.2000e-004 | 1.1200e-003 | 9.4000e-004 | 1.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 1.2139 | 1.2139 | 2.0000e-005 | 2.0000e-005 | 1.2212 |
| Total | | 1.2000e-004 | 1.1200e-003 | 9.4000e-004 | 1.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 1.2139 | 1.2139 | 2.0000e-005 | 2.0000e-005 | 1.2212 |

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

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 |
| Strip Mall | 182405 | 57.2527 | 2.7300e-003 | 3.3000e-004 | 57.4196 |
| Total | | 57.2527 | 2.7300e-003 | 3.3000e-004 | 57.4196 |

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 |
| Strip Mall | 182405 | 57.2527 | 2.7300e-003 | 3.3000e-004 | 57.4196 |
| Total | | 57.2527 | 2.7300e-003 | 3.3000e-004 | 57.4196 |

6.0 Area Detail

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

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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0579 | 0.0000 | 3.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 6.6000e-004 | 6.6000e-004 | 0.0000 | 0.0000 | 7.0000e-004 |
| Unmitigated | 0.0579 | 0.0000 | 3.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 6.6000e-004 | 6.6000e-004 | 0.0000 | 0.0000 | 7.0000e-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 | 6.6400e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0513 | | | | | 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 | 3.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 6.6000e-004 | 6.6000e-004 | 0.0000 | 0.0000 | 7.0000e-004 |
| Total | 0.0579 | 0.0000 | 3.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 6.6000e-004 | 6.6000e-004 | 0.0000 | 0.0000 | 7.0000e-004 |

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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 | 6.6400e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0513 | | | | | 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 | 3.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 6.6000e-004 | 6.6000e-004 | 0.0000 | 0.0000 | 7.0000e-004 |
| Total | 0.0579 | 0.0000 | 3.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 6.6000e-004 | 6.6000e-004 | 0.0000 | 0.0000 | 7.0000e-004 |

7.0 Water Detail

7.1 Mitigation Measures Water

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

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|--------|
| Category | MT/yr | | | |
| Mitigated | 6.7643 | 0.0340 | 8.3000e-004 | 7.8625 |
| Unmitigated | 6.7643 | 0.0340 | 8.3000e-004 | 7.8625 |

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 |
| Strip Mall | 1.03405 / 0.633774 | 6.7643 | 0.0340 | 8.3000e-004 | 7.8625 |
| Total | | 6.7643 | 0.0340 | 8.3000e-004 | 7.8625 |

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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 |
| Strip Mall | 1.03405 / 0.633774 | 6.7643 | 0.0340 | 8.3000e-004 | 7.8625 |
| Total | | 6.7643 | 0.0340 | 8.3000e-004 | 7.8625 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|--------|
| | MT/yr | | | |
| Mitigated | 2.9759 | 0.1759 | 0.0000 | 7.3725 |
| Unmitigated | 2.9759 | 0.1759 | 0.0000 | 7.3725 |

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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 |
| Strip Mall | 14.66 | 2.9759 | 0.1759 | 0.0000 | 7.3725 |
| Total | | 2.9759 | 0.1759 | 0.0000 | 7.3725 |

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 |
| Strip Mall | 14.66 | 2.9759 | 0.1759 | 0.0000 | 7.3725 |
| Total | | 2.9759 | 0.1759 | 0.0000 | 7.3725 |

9.0 Operational Offroad

Alt 2 - Los Angeles-South Coast County, Annual

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

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Alt 2 - Los Angeles-South Coast County, Summer

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

Alt 2

Los Angeles-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 | 12.63 | 1000sqft | 0.29 | 12,630.00 | 0 |
| Strip Mall | 13.96 | 1000sqft | 0.32 | 13,956.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|-----------------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2024 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 691.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Applicant info.

Land Use - Applicant info.

Construction Phase - "Building Construction" would consist of performing the necessary seismic upgrades, ADA upgrades, and other renovations related to its preservation.

Off-road Equipment - Applicant info.

Off-road Equipment - Asbestos abatement may require a generator or an air compressor to power electric or pneumatic hand tools and devices.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Asbestos Abatement phase assumes one inbound and one outbound haul trip per workday. Transporting building portions would require heavy duty class trucks.

Demolition - Assumes 1 CY of C&D equals 484 lbs per EPA volume to weight conversion factors for waste materials (2016).

Alt 2 - Los Angeles-South Coast County, Summer

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

Grading -
 Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403 control efficiency for trackout PM reduction.

| Table Name | Column Name | Default Value | New Value |
|------------------------|--------------------------------|---------------|--------------------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0 | 80 |
| tblLandUse | LandUseSquareFeet | 13,960.00 | 13,956.00 |
| tblOffRoadEquipment | LoadFactor | 0.31 | 0.31 |
| tblOffRoadEquipment | OffRoadEquipmentType | | Air Compressors |
| tblOffRoadEquipment | OffRoadEquipmentType | | Generator Sets |
| tblOffRoadEquipment | OffRoadEquipmentType | | Aerial Lifts |
| tblOffRoadEquipment | OffRoadEquipmentType | | Cement and Mortar Mixers |
| tblOffRoadEquipment | OffRoadEquipmentType | | Welders |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 4.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 42.00 |
| tblTripsAndVMT | HaulingTripNumber | 3.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 5.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 2.00 | 4.00 |

2.0 Emissions Summary

Alt 2 - Los Angeles-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |
| Energy | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |
| Mobile | 1.4231 | 1.2197 | 11.8415 | 0.0241 | 2.4783 | 0.0179 | 2.4962 | 0.6602 | 0.0166 | 0.6767 | | 2,456.2902 | 2,456.2902 | 0.1857 | 0.1117 | 2,494.2059 |
| Total | 1.7412 | 1.2259 | 11.8494 | 0.0241 | 2.4783 | 0.0183 | 2.4967 | 0.6602 | 0.0170 | 0.6772 | | 2,463.6282 | 2,463.6282 | 0.1858 | 0.1118 | 2,501.5879 |

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 | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |
| Energy | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |
| Mobile | 1.4231 | 1.2197 | 11.8415 | 0.0241 | 2.4783 | 0.0179 | 2.4962 | 0.6602 | 0.0166 | 0.6767 | | 2,456.2902 | 2,456.2902 | 0.1857 | 0.1117 | 2,494.2059 |
| Total | 1.7412 | 1.2259 | 11.8494 | 0.0241 | 2.4783 | 0.0183 | 2.4967 | 0.6602 | 0.0170 | 0.6772 | | 2,463.6282 | 2,463.6282 | 0.1858 | 0.1118 | 2,501.5879 |

Alt 2 - Los Angeles-South Coast County, Summer

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| 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 | Asbestos Abatement | Demolition | 1/2/2023 | 1/13/2023 | 5 | 10 | |
| 2 | Building Construction | Building Construction | 1/16/2023 | 6/2/2023 | 5 | 100 | |
| 3 | Paving | Paving | 6/5/2023 | 6/9/2023 | 5 | 5 | |
| 4 | Architectural Coating | Architectural Coating | 6/12/2023 | 6/16/2023 | 5 | 5 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.29

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 20,934; Non-Residential Outdoor: 6,978; Striped Parking Area: 758 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Asbestos Abatement | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Asbestos Abatement | Concrete/Industrial Saws | 0 | 8.00 | 81 | 0.73 |
| Asbestos Abatement | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Asbestos Abatement | Rubber Tired Dozers | 0 | 1.00 | 247 | 0.40 |
| Asbestos Abatement | Tractors/Loaders/Backhoes | 0 | 6.00 | 97 | 0.37 |
| Building Construction | Aerial Lifts | 1 | 8.00 | 63 | 0.31 |
| Building Construction | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |

Alt 2 - Los Angeles-South Coast County, Summer

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

| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Building Construction | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Paving | Cement and Mortar Mixers | 4 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 7.00 | 130 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Asbestos Abatement | 2 | 20.00 | 0.00 | 20.00 | 14.70 | 6.90 | 42.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 6 | 10.00 | 4.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 4.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

Alt 2 - Los Angeles-South Coast County, Summer

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

3.2 Asbestos Abatement - 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 | | | | | 0.0674 | 0.0000 | 0.0674 | 0.0102 | 0.0000 | 0.0102 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5614 | 4.4529 | 6.0842 | 0.0105 | | 0.2227 | 0.2227 | | 0.2227 | 0.2227 | | 998.2986 | 998.2986 | 0.0499 | | 999.5451 |
| Total | 0.5614 | 4.4529 | 6.0842 | 0.0105 | 0.0674 | 0.2227 | 0.2901 | 0.0102 | 0.2227 | 0.2329 | | 998.2986 | 998.2986 | 0.0499 | | 999.5451 |

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 | 6.7400e-003 | 0.5085 | 0.1135 | 2.4000e-003 | 0.0735 | 3.4300e-003 | 0.0769 | 0.0201 | 3.2900e-003 | 0.0234 | | 263.7753 | 263.7753 | 0.0147 | 0.0419 | 276.6265 |
| 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 | 0.0640 | 0.0446 | 0.7228 | 1.9800e-003 | 0.2236 | 1.3400e-003 | 0.2249 | 0.0593 | 1.2400e-003 | 0.0605 | | 200.0151 | 200.0151 | 5.0400e-003 | 4.6200e-003 | 201.5167 |
| Total | 0.0707 | 0.5531 | 0.8363 | 4.3800e-003 | 0.2970 | 4.7700e-003 | 0.3018 | 0.0794 | 4.5300e-003 | 0.0840 | | 463.7904 | 463.7904 | 0.0197 | 0.0465 | 478.1432 |

Alt 2 - Los Angeles-South Coast County, Summer

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

3.2 Asbestos Abatement - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.0303 | 0.0000 | 0.0303 | 4.5900e-003 | 0.0000 | 4.5900e-003 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5614 | 4.4529 | 6.0842 | 0.0105 | | 0.2227 | 0.2227 | | 0.2227 | 0.2227 | 0.0000 | 998.2986 | 998.2986 | 0.0499 | | 999.5451 |
| Total | 0.5614 | 4.4529 | 6.0842 | 0.0105 | 0.0303 | 0.2227 | 0.2530 | 4.5900e-003 | 0.2227 | 0.2273 | 0.0000 | 998.2986 | 998.2986 | 0.0499 | | 999.5451 |

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 | 6.7400e-003 | 0.5085 | 0.1135 | 2.4000e-003 | 0.0291 | 3.4300e-003 | 0.0325 | 9.2400e-003 | 3.2900e-003 | 0.0125 | | 263.7753 | 263.7753 | 0.0147 | 0.0419 | 276.6265 |
| 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 | 0.0640 | 0.0446 | 0.7228 | 1.9800e-003 | 0.0681 | 1.3400e-003 | 0.0694 | 0.0211 | 1.2400e-003 | 0.0224 | | 200.0151 | 200.0151 | 5.0400e-003 | 4.6200e-003 | 201.5167 |
| Total | 0.0707 | 0.5531 | 0.8363 | 4.3800e-003 | 0.0971 | 4.7700e-003 | 0.1019 | 0.0304 | 4.5300e-003 | 0.0349 | | 463.7904 | 463.7904 | 0.0197 | 0.0465 | 478.1432 |

Alt 2 - Los Angeles-South Coast County, Summer

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

3.3 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9041 | 8.0538 | 7.1960 | 0.0138 | | 0.3565 | 0.3565 | | 0.3336 | 0.3336 | | 1,274.5506 | 1,274.5506 | 0.3567 | | 1,283.4669 |
| Total | 0.9041 | 8.0538 | 7.1960 | 0.0138 | | 0.3565 | 0.3565 | | 0.3336 | 0.3336 | | 1,274.5506 | 1,274.5506 | 0.3567 | | 1,283.4669 |

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 | 4.6100e-003 | 0.1535 | 0.0595 | 7.4000e-004 | 0.0256 | 7.7000e-004 | 0.0264 | 7.3800e-003 | 7.4000e-004 | 8.1200e-003 | | 80.1130 | 80.1130 | 2.6800e-003 | 0.0115 | 83.6124 |
| Worker | 0.0320 | 0.0223 | 0.3614 | 9.9000e-004 | 0.1118 | 6.7000e-004 | 0.1125 | 0.0296 | 6.2000e-004 | 0.0303 | | 100.0075 | 100.0075 | 2.5200e-003 | 2.3100e-003 | 100.7583 |
| Total | 0.0366 | 0.1758 | 0.4209 | 1.7300e-003 | 0.1374 | 1.4400e-003 | 0.1388 | 0.0370 | 1.3600e-003 | 0.0384 | | 180.1205 | 180.1205 | 5.2000e-003 | 0.0138 | 184.3708 |

Alt 2 - Los Angeles-South Coast County, Summer

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

3.3 Building Construction - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9041 | 8.0538 | 7.1960 | 0.0138 | | 0.3565 | 0.3565 | | 0.3336 | 0.3336 | 0.0000 | 1,274.5506 | 1,274.5506 | 0.3567 | | 1,283.4669 |
| Total | 0.9041 | 8.0538 | 7.1960 | 0.0138 | | 0.3565 | 0.3565 | | 0.3336 | 0.3336 | 0.0000 | 1,274.5506 | 1,274.5506 | 0.3567 | | 1,283.4669 |

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 | 4.6100e-003 | 0.1535 | 0.0595 | 7.4000e-004 | 0.0110 | 7.7000e-004 | 0.0118 | 3.7900e-003 | 7.4000e-004 | 4.5300e-003 | | 80.1130 | 80.1130 | 2.6800e-003 | 0.0115 | 83.6124 |
| Worker | 0.0320 | 0.0223 | 0.3614 | 9.9000e-004 | 0.0340 | 6.7000e-004 | 0.0347 | 0.0106 | 6.2000e-004 | 0.0112 | | 100.0075 | 100.0075 | 2.5200e-003 | 2.3100e-003 | 100.7583 |
| Total | 0.0366 | 0.1758 | 0.4209 | 1.7300e-003 | 0.0451 | 1.4400e-003 | 0.0465 | 0.0144 | 1.3600e-003 | 0.0157 | | 180.1205 | 180.1205 | 5.2000e-003 | 0.0138 | 184.3708 |

Alt 2 - Los Angeles-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 Paving - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6112 | 5.5046 | 7.0209 | 0.0113 | | 0.2643 | 0.2643 | | 0.2466 | 0.2466 | | 1,036.0878 | 1,036.0878 | 0.3018 | | 1,043.6331 |
| Paving | 0.1520 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.7631 | 5.5046 | 7.0209 | 0.0113 | | 0.2643 | 0.2643 | | 0.2466 | 0.2466 | | 1,036.0878 | 1,036.0878 | 0.3018 | | 1,043.6331 |

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 | 0.0576 | 0.0402 | 0.6505 | 1.7800e-003 | 0.2012 | 1.2100e-003 | 0.2024 | 0.0534 | 1.1100e-003 | 0.0545 | | 180.0136 | 180.0136 | 4.5400e-003 | 4.1500e-003 | 181.3650 |
| Total | 0.0576 | 0.0402 | 0.6505 | 1.7800e-003 | 0.2012 | 1.2100e-003 | 0.2024 | 0.0534 | 1.1100e-003 | 0.0545 | | 180.0136 | 180.0136 | 4.5400e-003 | 4.1500e-003 | 181.3650 |

Alt 2 - Los Angeles-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 Paving - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6112 | 5.5046 | 7.0209 | 0.0113 | | 0.2643 | 0.2643 | | 0.2466 | 0.2466 | 0.0000 | 1,036.0878 | 1,036.0878 | 0.3018 | | 1,043.6331 |
| Paving | 0.1520 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.7631 | 5.5046 | 7.0209 | 0.0113 | | 0.2643 | 0.2643 | | 0.2466 | 0.2466 | 0.0000 | 1,036.0878 | 1,036.0878 | 0.3018 | | 1,043.6331 |

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 | 0.0576 | 0.0402 | 0.6505 | 1.7800e-003 | 0.0613 | 1.2100e-003 | 0.0625 | 0.0190 | 1.1100e-003 | 0.0201 | | 180.0136 | 180.0136 | 4.5400e-003 | 4.1500e-003 | 181.3650 |
| Total | 0.0576 | 0.0402 | 0.6505 | 1.7800e-003 | 0.0613 | 1.2100e-003 | 0.0625 | 0.0190 | 1.1100e-003 | 0.0201 | | 180.0136 | 180.0136 | 4.5400e-003 | 4.1500e-003 | 181.3650 |

Alt 2 - Los Angeles-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 Architectural Coating - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.5771 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 26.7688 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

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 | 0.0128 | 8.9200e-003 | 0.1446 | 4.0000e-004 | 0.0447 | 2.7000e-004 | 0.0450 | 0.0119 | 2.5000e-004 | 0.0121 | | 40.0030 | 40.0030 | 1.0100e-003 | 9.2000e-004 | 40.3033 |
| Total | 0.0128 | 8.9200e-003 | 0.1446 | 4.0000e-004 | 0.0447 | 2.7000e-004 | 0.0450 | 0.0119 | 2.5000e-004 | 0.0121 | | 40.0030 | 40.0030 | 1.0100e-003 | 9.2000e-004 | 40.3033 |

Alt 2 - Los Angeles-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 Architectural Coating - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.5771 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 26.7688 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

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 | 0.0128 | 8.9200e-003 | 0.1446 | 4.0000e-004 | 0.0136 | 2.7000e-004 | 0.0139 | 4.2200e-003 | 2.5000e-004 | 4.4700e-003 | | 40.0030 | 40.0030 | 1.0100e-003 | 9.2000e-004 | 40.3033 |
| Total | 0.0128 | 8.9200e-003 | 0.1446 | 4.0000e-004 | 0.0136 | 2.7000e-004 | 0.0139 | 4.2200e-003 | 2.5000e-004 | 4.4700e-003 | | 40.0030 | 40.0030 | 1.0100e-003 | 9.2000e-004 | 40.3033 |

Alt 2 - Los Angeles-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 | 1.4231 | 1.2197 | 11.8415 | 0.0241 | 2.4783 | 0.0179 | 2.4962 | 0.6602 | 0.0166 | 0.6767 | | 2,456.290 2 | 2,456.290 2 | 0.1857 | 0.1117 | 2,494.205 9 |
| Unmitigated | 1.4231 | 1.2197 | 11.8415 | 0.0241 | 2.4783 | 0.0179 | 2.4962 | 0.6602 | 0.0166 | 0.6767 | | 2,456.290 2 | 2,456.290 2 | 0.1857 | 0.1117 | 2,494.205 9 |

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 | | |
| Strip Mall | 618.71 | 586.88 | 285.20 | 1,077,852 | 1,077,852 |
| Total | 618.71 | 586.88 | 285.20 | 1,077,852 | 1,077,852 |

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 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

Alt 2 - Los Angeles-South Coast County, Summer

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

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Other Asphalt Surfaces | 0.542464 | 0.063735 | 0.188241 | 0.126899 | 0.023249 | 0.006239 | 0.010717 | 0.008079 | 0.000923 | 0.000604 | 0.024795 | 0.000702 | 0.003352 |
| Strip Mall | 0.542464 | 0.063735 | 0.188241 | 0.126899 | 0.023249 | 0.006239 | 0.010717 | 0.008079 | 0.000923 | 0.000604 | 0.024795 | 0.000702 | 0.003352 |

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 | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |
| NaturalGas Unmitigated | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |

Alt 2 - Los Angeles-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 - 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 |
| Strip Mall | 62.3241 | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |
| Total | | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |

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 |
| Strip Mall | 0.0623241 | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |
| Total | | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |

6.0 Area Detail

Alt 2 - Los Angeles-South Coast County, Summer

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

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 | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |
| Unmitigated | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|--------------------|--------------------|--------------------|-----|--------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.0364 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.2808 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.5000e-004 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |
| Total | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |

Alt 2 - Los Angeles-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 | 0.0364 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.2808 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.5000e-004 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |
| Total | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt 2 - Los Angeles-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

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Alt 2 - Los Angeles-South Coast County, Winter

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

Alt 2

Los Angeles-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 | 12.63 | 1000sqft | 0.29 | 12,630.00 | 0 |
| Strip Mall | 13.96 | 1000sqft | 0.32 | 13,956.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|-----------------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2024 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 691.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Applicant info.

Land Use - Applicant info.

Construction Phase - "Building Construction" would consist of performing the necessary seismic upgrades, ADA upgrades, and other renovations related to its preservation.

Off-road Equipment - Applicant info.

Off-road Equipment - Asbestos abatement may require a generator or an air compressor to power electric or pneumatic hand tools and devices.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Asbestos Abatement phase assumes one inbound and one outbound haul trip per workday. Transporting building portions would require heavy duty class trucks.

Demolition - Assumes 1 CY of C&D equals 484 lbs per EPA volume to weight conversion factors for waste materials (2016).

Alt 2 - Los Angeles-South Coast County, Winter

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

Grading -
 Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403 control efficiency for trackout PM reduction.

| Table Name | Column Name | Default Value | New Value |
|------------------------|--------------------------------|---------------|--------------------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0 | 80 |
| tblLandUse | LandUseSquareFeet | 13,960.00 | 13,956.00 |
| tblOffRoadEquipment | LoadFactor | 0.31 | 0.31 |
| tblOffRoadEquipment | OffRoadEquipmentType | | Air Compressors |
| tblOffRoadEquipment | OffRoadEquipmentType | | Generator Sets |
| tblOffRoadEquipment | OffRoadEquipmentType | | Aerial Lifts |
| tblOffRoadEquipment | OffRoadEquipmentType | | Cement and Mortar Mixers |
| tblOffRoadEquipment | OffRoadEquipmentType | | Welders |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 4.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 42.00 |
| tblTripsAndVMT | HaulingTripNumber | 3.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 5.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 2.00 | 4.00 |

2.0 Emissions Summary

Alt 2 - Los Angeles-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 | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |
| Energy | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |
| Mobile | 1.3866 | 1.3175 | 11.8399 | 0.0231 | 2.4783 | 0.0179 | 2.4962 | 0.6602 | 0.0166 | 0.6767 | | 2,354.4704 | 2,354.4704 | 0.1939 | 0.1168 | 2,394.1348 |
| Total | 1.7047 | 1.3236 | 11.8478 | 0.0231 | 2.4783 | 0.0183 | 2.4967 | 0.6602 | 0.0171 | 0.6772 | | 2,361.8085 | 2,361.8085 | 0.1940 | 0.1170 | 2,401.5168 |

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 | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |
| Energy | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |
| Mobile | 1.3866 | 1.3175 | 11.8399 | 0.0231 | 2.4783 | 0.0179 | 2.4962 | 0.6602 | 0.0166 | 0.6767 | | 2,354.4704 | 2,354.4704 | 0.1939 | 0.1168 | 2,394.1348 |
| Total | 1.7047 | 1.3236 | 11.8478 | 0.0231 | 2.4783 | 0.0183 | 2.4967 | 0.6602 | 0.0171 | 0.6772 | | 2,361.8085 | 2,361.8085 | 0.1940 | 0.1170 | 2,401.5168 |

Alt 2 - Los Angeles-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 | Asbestos Abatement | Demolition | 1/2/2023 | 1/13/2023 | 5 | 10 | |
| 2 | Building Construction | Building Construction | 1/16/2023 | 6/2/2023 | 5 | 100 | |
| 3 | Paving | Paving | 6/5/2023 | 6/9/2023 | 5 | 5 | |
| 4 | Architectural Coating | Architectural Coating | 6/12/2023 | 6/16/2023 | 5 | 5 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.29

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 20,934; Non-Residential Outdoor: 6,978; Striped Parking Area: 758 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Asbestos Abatement | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Asbestos Abatement | Concrete/Industrial Saws | 0 | 8.00 | 81 | 0.73 |
| Asbestos Abatement | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Asbestos Abatement | Rubber Tired Dozers | 0 | 1.00 | 247 | 0.40 |
| Asbestos Abatement | Tractors/Loaders/Backhoes | 0 | 6.00 | 97 | 0.37 |
| Building Construction | Aerial Lifts | 1 | 8.00 | 63 | 0.31 |
| Building Construction | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |

Alt 2 - Los Angeles-South Coast County, Winter

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

| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Building Construction | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Paving | Cement and Mortar Mixers | 4 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 7.00 | 130 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Asbestos Abatement | 2 | 20.00 | 0.00 | 20.00 | 14.70 | 6.90 | 42.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 6 | 10.00 | 4.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 4.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

Alt 2 - Los Angeles-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 Asbestos Abatement - 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 | | | | | 0.0674 | 0.0000 | 0.0674 | 0.0102 | 0.0000 | 0.0102 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5614 | 4.4529 | 6.0842 | 0.0105 | | 0.2227 | 0.2227 | | 0.2227 | 0.2227 | | 998.2986 | 998.2986 | 0.0499 | | 999.5451 |
| Total | 0.5614 | 4.4529 | 6.0842 | 0.0105 | 0.0674 | 0.2227 | 0.2901 | 0.0102 | 0.2227 | 0.2329 | | 998.2986 | 998.2986 | 0.0499 | | 999.5451 |

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 | 6.4600e-003 | 0.5296 | 0.1144 | 2.4000e-003 | 0.0735 | 3.4400e-003 | 0.0769 | 0.0201 | 3.2900e-003 | 0.0234 | | 263.9107 | 263.9107 | 0.0147 | 0.0419 | 276.7683 |
| 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 | 0.0688 | 0.0493 | 0.6644 | 1.8700e-003 | 0.2236 | 1.3400e-003 | 0.2249 | 0.0593 | 1.2400e-003 | 0.0605 | | 189.4707 | 189.4707 | 5.1100e-003 | 4.9300e-003 | 191.0678 |
| Total | 0.0752 | 0.5789 | 0.7788 | 4.2700e-003 | 0.2970 | 4.7800e-003 | 0.3018 | 0.0794 | 4.5300e-003 | 0.0840 | | 453.3814 | 453.3814 | 0.0198 | 0.0468 | 467.8361 |

Alt 2 - Los Angeles-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 Asbestos Abatement - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.0303 | 0.0000 | 0.0303 | 4.5900e-003 | 0.0000 | 4.5900e-003 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5614 | 4.4529 | 6.0842 | 0.0105 | | 0.2227 | 0.2227 | | 0.2227 | 0.2227 | 0.0000 | 998.2986 | 998.2986 | 0.0499 | | 999.5451 |
| Total | 0.5614 | 4.4529 | 6.0842 | 0.0105 | 0.0303 | 0.2227 | 0.2530 | 4.5900e-003 | 0.2227 | 0.2273 | 0.0000 | 998.2986 | 998.2986 | 0.0499 | | 999.5451 |

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 | 6.4600e-003 | 0.5296 | 0.1144 | 2.4000e-003 | 0.0291 | 3.4400e-003 | 0.0325 | 9.2400e-003 | 3.2900e-003 | 0.0125 | | 263.9107 | 263.9107 | 0.0147 | 0.0419 | 276.7683 |
| 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 | 0.0688 | 0.0493 | 0.6644 | 1.8700e-003 | 0.0681 | 1.3400e-003 | 0.0694 | 0.0211 | 1.2400e-003 | 0.0224 | | 189.4707 | 189.4707 | 5.1100e-003 | 4.9300e-003 | 191.0678 |
| Total | 0.0752 | 0.5789 | 0.7788 | 4.2700e-003 | 0.0971 | 4.7800e-003 | 0.1019 | 0.0304 | 4.5300e-003 | 0.0349 | | 453.3814 | 453.3814 | 0.0198 | 0.0468 | 467.8361 |

Alt 2 - Los Angeles-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 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9041 | 8.0538 | 7.1960 | 0.0138 | | 0.3565 | 0.3565 | | 0.3336 | 0.3336 | | 1,274.5506 | 1,274.5506 | 0.3567 | | 1,283.4669 |
| Total | 0.9041 | 8.0538 | 7.1960 | 0.0138 | | 0.3565 | 0.3565 | | 0.3336 | 0.3336 | | 1,274.5506 | 1,274.5506 | 0.3567 | | 1,283.4669 |

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 | 4.4500e-003 | 0.1608 | 0.0614 | 7.5000e-004 | 0.0256 | 7.8000e-004 | 0.0264 | 7.3800e-003 | 7.4000e-004 | 8.1200e-003 | | 80.2481 | 80.2481 | 2.6700e-003 | 0.0116 | 83.7564 |
| Worker | 0.0344 | 0.0246 | 0.3322 | 9.4000e-004 | 0.1118 | 6.7000e-004 | 0.1125 | 0.0296 | 6.2000e-004 | 0.0303 | | 94.7354 | 94.7354 | 2.5600e-003 | 2.4700e-003 | 95.5339 |
| Total | 0.0388 | 0.1854 | 0.3935 | 1.6900e-003 | 0.1374 | 1.4500e-003 | 0.1389 | 0.0370 | 1.3600e-003 | 0.0384 | | 174.9835 | 174.9835 | 5.2300e-003 | 0.0140 | 179.2903 |

Alt 2 - Los Angeles-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 Building Construction - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9041 | 8.0538 | 7.1960 | 0.0138 | | 0.3565 | 0.3565 | | 0.3336 | 0.3336 | 0.0000 | 1,274.5506 | 1,274.5506 | 0.3567 | | 1,283.4669 |
| Total | 0.9041 | 8.0538 | 7.1960 | 0.0138 | | 0.3565 | 0.3565 | | 0.3336 | 0.3336 | 0.0000 | 1,274.5506 | 1,274.5506 | 0.3567 | | 1,283.4669 |

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 | 4.4500e-003 | 0.1608 | 0.0614 | 7.5000e-004 | 0.0110 | 7.8000e-004 | 0.0118 | 3.7900e-003 | 7.4000e-004 | 4.5400e-003 | | 80.2481 | 80.2481 | 2.6700e-003 | 0.0116 | 83.7564 |
| Worker | 0.0344 | 0.0246 | 0.3322 | 9.4000e-004 | 0.0340 | 6.7000e-004 | 0.0347 | 0.0106 | 6.2000e-004 | 0.0112 | | 94.7354 | 94.7354 | 2.5600e-003 | 2.4700e-003 | 95.5339 |
| Total | 0.0388 | 0.1854 | 0.3935 | 1.6900e-003 | 0.0451 | 1.4500e-003 | 0.0465 | 0.0144 | 1.3600e-003 | 0.0157 | | 174.9835 | 174.9835 | 5.2300e-003 | 0.0140 | 179.2903 |

Alt 2 - Los Angeles-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 Paving - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6112 | 5.5046 | 7.0209 | 0.0113 | | 0.2643 | 0.2643 | | 0.2466 | 0.2466 | | 1,036.0878 | 1,036.0878 | 0.3018 | | 1,043.6331 |
| Paving | 0.1520 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.7631 | 5.5046 | 7.0209 | 0.0113 | | 0.2643 | 0.2643 | | 0.2466 | 0.2466 | | 1,036.0878 | 1,036.0878 | 0.3018 | | 1,043.6331 |

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 | 0.0619 | 0.0444 | 0.5979 | 1.6900e-003 | 0.2012 | 1.2100e-003 | 0.2024 | 0.0534 | 1.1100e-003 | 0.0545 | | 170.5237 | 170.5237 | 4.6000e-003 | 4.4400e-003 | 171.9610 |
| Total | 0.0619 | 0.0444 | 0.5979 | 1.6900e-003 | 0.2012 | 1.2100e-003 | 0.2024 | 0.0534 | 1.1100e-003 | 0.0545 | | 170.5237 | 170.5237 | 4.6000e-003 | 4.4400e-003 | 171.9610 |

Alt 2 - Los Angeles-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 Paving - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6112 | 5.5046 | 7.0209 | 0.0113 | | 0.2643 | 0.2643 | | 0.2466 | 0.2466 | 0.0000 | 1,036.0878 | 1,036.0878 | 0.3018 | | 1,043.6331 |
| Paving | 0.1520 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.7631 | 5.5046 | 7.0209 | 0.0113 | | 0.2643 | 0.2643 | | 0.2466 | 0.2466 | 0.0000 | 1,036.0878 | 1,036.0878 | 0.3018 | | 1,043.6331 |

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 | 0.0619 | 0.0444 | 0.5979 | 1.6900e-003 | 0.0613 | 1.2100e-003 | 0.0625 | 0.0190 | 1.1100e-003 | 0.0201 | | 170.5237 | 170.5237 | 4.6000e-003 | 4.4400e-003 | 171.9610 |
| Total | 0.0619 | 0.0444 | 0.5979 | 1.6900e-003 | 0.0613 | 1.2100e-003 | 0.0625 | 0.0190 | 1.1100e-003 | 0.0201 | | 170.5237 | 170.5237 | 4.6000e-003 | 4.4400e-003 | 171.9610 |

Alt 2 - Los Angeles-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 Architectural Coating - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.5771 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 26.7688 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

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 | 0.0138 | 9.8600e-003 | 0.1329 | 3.7000e-004 | 0.0447 | 2.7000e-004 | 0.0450 | 0.0119 | 2.5000e-004 | 0.0121 | | 37.8941 | 37.8941 | 1.0200e-003 | 9.9000e-004 | 38.2136 |
| Total | 0.0138 | 9.8600e-003 | 0.1329 | 3.7000e-004 | 0.0447 | 2.7000e-004 | 0.0450 | 0.0119 | 2.5000e-004 | 0.0121 | | 37.8941 | 37.8941 | 1.0200e-003 | 9.9000e-004 | 38.2136 |

Alt 2 - Los Angeles-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 Architectural Coating - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.5771 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 26.7688 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

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 | 0.0138 | 9.8600e-003 | 0.1329 | 3.7000e-004 | 0.0136 | 2.7000e-004 | 0.0139 | 4.2200e-003 | 2.5000e-004 | 4.4700e-003 | | 37.8941 | 37.8941 | 1.0200e-003 | 9.9000e-004 | 38.2136 |
| Total | 0.0138 | 9.8600e-003 | 0.1329 | 3.7000e-004 | 0.0136 | 2.7000e-004 | 0.0139 | 4.2200e-003 | 2.5000e-004 | 4.4700e-003 | | 37.8941 | 37.8941 | 1.0200e-003 | 9.9000e-004 | 38.2136 |

Alt 2 - Los Angeles-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 | 1.3866 | 1.3175 | 11.8399 | 0.0231 | 2.4783 | 0.0179 | 2.4962 | 0.6602 | 0.0166 | 0.6767 | | 2,354.470 4 | 2,354.470 4 | 0.1939 | 0.1168 | 2,394.134 8 |
| Unmitigated | 1.3866 | 1.3175 | 11.8399 | 0.0231 | 2.4783 | 0.0179 | 2.4962 | 0.6602 | 0.0166 | 0.6767 | | 2,354.470 4 | 2,354.470 4 | 0.1939 | 0.1168 | 2,394.134 8 |

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 | | |
| Strip Mall | 618.71 | 586.88 | 285.20 | 1,077,852 | 1,077,852 |
| Total | 618.71 | 586.88 | 285.20 | 1,077,852 | 1,077,852 |

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 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

Alt 2 - Los Angeles-South Coast County, Winter

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

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Other Asphalt Surfaces | 0.542464 | 0.063735 | 0.188241 | 0.126899 | 0.023249 | 0.006239 | 0.010717 | 0.008079 | 0.000923 | 0.000604 | 0.024795 | 0.000702 | 0.003352 |
| Strip Mall | 0.542464 | 0.063735 | 0.188241 | 0.126899 | 0.023249 | 0.006239 | 0.010717 | 0.008079 | 0.000923 | 0.000604 | 0.024795 | 0.000702 | 0.003352 |

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 | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |
| NaturalGas Unmitigated | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |

Alt 2 - Los Angeles-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

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 |
| Strip Mall | 62.3241 | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |
| Total | | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |

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 |
| Strip Mall | 0.0623241 | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |
| Total | | 6.7000e-004 | 6.1100e-003 | 5.1300e-003 | 4.0000e-005 | | 4.6000e-004 | 4.6000e-004 | | 4.6000e-004 | 4.6000e-004 | | 7.3322 | 7.3322 | 1.4000e-004 | 1.3000e-004 | 7.3758 |

6.0 Area Detail

Alt 2 - Los Angeles-South Coast County, Winter

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

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 | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |
| Unmitigated | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|--------------------|--------------------|--------------------|-----|--------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.0364 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.2808 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.5000e-004 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |
| Total | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |

Alt 2 - Los Angeles-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 | 0.0364 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.2808 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.5000e-004 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |
| Total | 0.3175 | 2.0000e-005 | 2.7100e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.8200e-003 | 5.8200e-003 | 2.0000e-005 | | 6.2000e-003 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt 2 - Los Angeles-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

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation
